

**OIL INDIA LIMITED**  
(A Government of India Enterprise)  
P.O. Duliajan, Pin – 786602  
Dist-Dibrugarh, Assam

## **Pre-Bid Meeting Minutes**

**To**

**Sub: GeM Bid No. GEM/2026/B/7841968 dated 28.07.2026 – “Design, Supply, Implementation and Support of an AI Driven Project Performance Monitoring Solution”.**

This is to notify that the **Minutes of the Pre-Bid Meeting** held on **12.08.2026** in connection with the subject tender are enclosed herewith as **ANNEXURE-I**.

All other terms and conditions of the Bid Document remain unchanged.

Details can be viewed at [www.oil-india.com](http://www.oil-india.com).

**OIL INDIA LIMITED**  
**Pre-Bid Meeting Minutes**

**Tender No. GEM/2026/B/7841968 dated 28.07.2026**

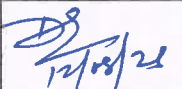
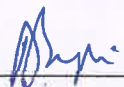
**Name of Work: Design, Supply, Implementation and Support of an AI Driven Project Performance Monitoring Solution.**

**Date & Time: 12.08.2026 from 10:00 AM onwards**

**Venue: Auditorium (Ground Floor), OIL's Corporate Office, Plot No. 19, Near Film City, Sector 16A, Noida - 201301**

The pre-bid meeting was organized to address the queries raised by the bidders for the said tender within the pre-bid query submission deadline. OIL discussed and clarified the queries pointwise. The queries received & clarifications given, if any during the meeting are placed as **Annexure - I**. It was mentioned in the meeting that the final reply against each pre-bid query shall be published in tender portal and same will be treated as part of the Tender conditions and shall be binding to both OIL and Bidders.

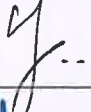
The meeting ended with a vote of thanks to the chair.

| OIL's Representative |              |                              |                                                                                                 | Bidder's Representative |                |             |             |                                                                                       |
|----------------------|--------------|------------------------------|-------------------------------------------------------------------------------------------------|-------------------------|----------------|-------------|-------------|---------------------------------------------------------------------------------------|
| Sr. No.              | Name         | Designation                  | Signature & Date                                                                                | Sr. No.                 | Name           | Firm's Name | Designation | Signature & Date                                                                      |
| 1                    | Dipak Shukla | DM (CRP)                     | <br>12/08/26 | 1                       | RK             | NET         | BD          |  |
| 2                    | C.B. PRASAD  | PM(2)<br>CDO Office          | <br>12/08/26 | 2                       | Amandeep Singh | SC (CRP)    | Lead        |  |
| 3                    | K. CHOWDHURY | Proj. Mgr (1)<br>(DRIVE 2.0) | <br>12/08/26 | 3                       | Sridhar        | SKO         | BD          |  |

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|    |                                 |                     |                                  |    |                          |                        |                                          |                                    |
|----|---------------------------------|---------------------|----------------------------------|----|--------------------------|------------------------|------------------------------------------|------------------------------------|
| 4  | Sanjay Goswami                  | CDO                 | <del>Goswami</del><br>12/08/26   | 4  | Abhilash Naji            | SNO                    | Engr                                     | <del>T. Naji</del>                 |
| 5  | <del>Chandhury</del><br>HR Khan | DGM (F&D)           | <del>HR Khan</del><br>12/08/26   | 5  | Parnabrat Chandrahury +1 | ITs.                   | Sr. Consultant                           | <del>P. Chandrahury</del>          |
| 6  | ANKUR NATH                      | CE IT               | <del>Ankur</del><br>12/8/26      | 6  | Raghu Singh              | SSB Digital Pvt. Ltd.  | BD.                                      | <del>Raghu Singh</del><br>12/08/26 |
| 7  | SYED RIZAL KERIM                | CE (Prof)           | <del>Syed Rizal</del><br>12/8/26 | 7  | SAURABH SRIVASTAVA       | OGES                   | <del>CSO</del>                           | <del>S. Srivastava</del>           |
| 8  | SANDIP K. SARMA                 | DGM (B&D)           | <del>Sandip</del><br>12/8/26     | 8  | AMIT RANJAN              | SCALE IQ               | CSO                                      | <del>A. Ranjan</del>               |
| 9  | Shashank K. Tripathi            | Manager             | <del>Shashank</del><br>12/8/26   | 9  | B. B. Hota               | Softtech Engineers     | Regional                                 | <del>B. B. Hota</del>              |
| 10 | P. Bijar Bama                   | CGM EF              | <del>P. Bijar</del><br>12/8/26   | 10 | AMIT VIG                 | Digital Corp. Solu     | B.D                                      | <del>A. Vig</del>                  |
| 11 | Pitab Kumar                     | Manager - Contracts | <del>Pitab</del><br>12/08/26     | 11 | Yash Vardhan Vardh       | Digital Corp. Solution | Sr. Software Solution                    | <del>Yash Vardhan</del>            |
| 12 |                                 |                     |                                  | 12 | Gaurav Mittal            | TCE                    | Presales                                 | <del>G. Mittal</del>               |
| 13 |                                 |                     |                                  | 13 | Shashank Dutt            | TCE                    | Tech/AI                                  | <del>S. Dutt</del>                 |
| 14 |                                 |                     |                                  | 14 | Rahul Dha                | HestaBit               | <del>Director</del><br>Strategic Account | <del>R. Dha</del>                  |
| 15 |                                 |                     |                                  | 15 | Anurag Sinha             | HestaBit               | Director Strategic Account               | <del>A. Sinha</del>                |

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|    |  |  |  |    |                                |                         |                 |                                                                                       |
|----|--|--|--|----|--------------------------------|-------------------------|-----------------|---------------------------------------------------------------------------------------|
| 16 |  |  |  | 16 | Mathew Jacob                   | CMS Computer            | AGM Sales       |    |
| 17 |  |  |  | 17 | Chinnaray Bhatt                | Indovision              | Asst. Sales     |    |
| 18 |  |  |  | 18 | Vikram Narayan                 | AIOS                    | Sr. Asst.       |    |
| 19 |  |  |  | 19 | Gajendra Singh<br>(9350325443) | Appinvelis Technologies | BDM             |    |
| 20 |  |  |  | 20 | NEERAJ<br>C/DA                 | IEWER                   | Dir.            |    |
| 21 |  |  |  | 21 | Ankur Garg                     | Topsgill Pvt. Ltd.      | BDM             |    |
| 22 |  |  |  | 22 | Stelvin George                 | Topsgill Pvt. Ltd.      | Technical Arch. |    |
| 23 |  |  |  | 23 | Pranab Su.                     | Accenture               | Ass. Dir.       |    |
| 24 |  |  |  | 24 | Harshit                        | KPMG                    | Manager         |   |
| 25 |  |  |  | 25 | Vijay Kumar                    | Paradigm IT             | BM              |  |
| 26 |  |  |  | 26 |                                |                         |                 |                                                                                       |
| 27 |  |  |  | 27 |                                |                         |                 |                                                                                       |

## **ANNEXURE-I**

| <b>SL NO.</b> | <b>DOCUMENT</b> | <b>GAP/AMBIGUITY</b>                                                                                                                                                                                                                                                                                          | <b>QUERY</b>                                                                                                                                                                                                                        | <b>RESPONSE</b>                                                                                                                                                                                                            |
|---------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.            | SOW             | Minimum historical data period and minimum number of completed projects for AI/ML training are both left as "to be checked by vendor & confirmed by OIL during discovery" — no figure given.                                                                                                                  | Kindly confirm the minimum historical data period (years) and the minimum number/typology of completed projects OIL will make available for model training and back-testing at contract start.                                      | ~5 yrs, Indicative counts: active/planned projects: 40 nos. WBS/Activity: 800 to 4000 per project. To be finalized during implementation phase.                                                                            |
| 2.            | SOW             | Sizing basis (number of projects/WBS elements/activities in scope, concurrent users, dashboard refresh volumes) is requested from the bidder as an assumption rather than supplied by OIL.                                                                                                                    | Please share indicative counts of active/planned projects, WBS/activity volumes, and expected concurrent dashboard users, so infrastructure and licensing can be sized accurately.                                                  | Indicative counts of active/planned projects: 40 nos. WBS/Activity: Ranging from 800 to 4000 nos. per project. Expected Concurrent dashboard users: ~ 30% of 50. Actuals to be discussed during discovery.                 |
| 3.            | SOW             | Performance test criteria reference "concurrent dashboard usage (e.g., X concurrent users)" without specifying X, and do not state a target response-time SLA.                                                                                                                                                | Please specify the target number of concurrent users and the acceptable dashboard load/response-time threshold to be used for performance test acceptance.                                                                          | ~50 users, 30% concurrent.                                                                                                                                                                                                 |
| 4.            | SOW             | Both a "Vendor SaaS" licensing line (Item 190) and a "MeitY-empanelled Public Cloud subscription" line (Item 200) appear in the price schedule; the SOW allows either deployment model but does not clarify if bidders should quote both, quote only the applicable one, or if OIL will pre-select the model. | Please confirm whether bidders are to quote Item 190 (SaaS) OR Item 200 (MeitY cloud + gateways), or both, and whether OIL has a preferred deployment model.                                                                        | SaaS based solution.                                                                                                                                                                                                       |
| 5.            | SOW             | The Solution must keep "all data stored within India" (3.3 Target Architecture) yet the bidder may offer global hyperscaler SaaS (Azure/AWS/GCP) routed through OIL's Azure landing zone — the exact compliance mechanism for data residency                                                                  | Please confirm whether an India-region deployment of a global hyperscaler (with traffic routed via OIL's Azure landing zone) satisfies the data-residency requirement, or whether only MeitY-empanelled Indian cloud is acceptable. | Allowed, bidder must ensure India-region data residency, routing through OIL's Azure landing zone, SSO with OIL Azure AD and OIL audit rights. MeitY-empanelled public cloud is acceptable if required for implementation. |

## **ANNEXURE-I**

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|     |     | under a non-Indian hyperscaler SaaS is not detailed.                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                           |
| 6.  | SOR | The >=20% LC threshold is stated generally, but the SOR is dominated by services + cloud/SaaS subscription costs; the LC computation methodology for cloud-subscription-heavy scope is not illustrated with a worked example.                                                                                   | Please clarify the LC computation methodology applicable to this scope, specifically how cloud/SaaS subscription cost (Items 190/200) is treated in the LC denominator/numerator.                                                  | Refer to the applicable provisions of the Public Procurement (Preference to Make in India) Order, 2017, as amended from time to time.                                                                                                     |
| 7.  | SOW | SOW 3.6 mandates a named 11-role team but only for context; the SOR's manpower line (Item 20) is a single lump-sum only for the 8-month Implementation Phase. No manpower composition/FTE count is specified for the 60-month M&S phase (Part-III, Items 210-250 are quarterly lump sums with no role breakup). | Please confirm the minimum manpower composition/FTE count OIL expects to be deployed during the 60-month M&S phase (post go-live), including whether any of the 11 Implementation-phase roles must continue full-time.             | 2 FTEs to be made available during M&S period; refer amendment.                                                                                                                                                                           |
| 8.  | SOW | SOW 6 describes KT for "60 users (20 users x 3 batches) per year" implying a recurring annual obligation, while SOR Item 180 prices "Training & KT (3 sessions x 20 participants)" with an estimated quantity of 3 — appearing to be a one-time deliverable within the Implementation phase.                    | Please confirm whether the SOW's "per year" training cadence is a recurring obligation through the 5-year M&S period (to be costed within the M&S price) or a one-time Implementation-phase deliverable as priced in SOR Item 180. | The training cadence is recurring during M&S as well.                                                                                                                                                                                     |
| 9.  | SOW | Dashboards are to be built on a "BI tool of choice (as agreed with OIL)" without naming an incumbent/preferred platform (e.g., Power BI, Tableau, Qlik) or confirming if OIL already holds enterprise licenses.                                                                                                 | Please confirm if OIL has an incumbent/preferred BI platform and existing enterprise license entitlements the Solution should leverage, or if the bidder is free to propose and license a BI tool.                                 | Free to propose. Bidders are not restricted to BI platform.                                                                                                                                                                               |
| 10. | SOW | Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite are listed as integration targets "as and when procured",                                                                                                                                                                                   | Please confirm which of the listed engineering tools are currently live in OIL's environment (with version/edition) versus planned for future                                                                                      | Primavera is currently in use and Aspen HYSYS, Pipesim, OLGA, Flaresim, Fathom, HTRI, CAESAR, PVElite, ERP and GIS as integration target. During bid, bidders must inventory relevant systems, versions and integration mechanisms. Exact |

## **ANNEXURE-I**

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|     |                  | implying some may not exist in OIL's landscape yet.                                                                                                                                                                                                                                                                                       | procurement, and the expected integration trigger/timeline for the latter.                                                                                                                                                                                                                                                       | live/planned tool status will be identified during discovery with OIL. All components should be considered during bids.                                                                                                                                                             |
| 11. | SOW              | A one-line requirement to "integrate the solution with the Command-and-Control Center (CCC)" is stated without any technical specification (interface type, data exchanged, SLA).                                                                                                                                                         | Please share the CCC integration specification (interface protocol, data/reporting elements expected, and any existing API/SDK) so this can be scoped and costed.                                                                                                                                                                | AIPPM solution should be API ready to be connected to CCC, details to be shared during discovery.                                                                                                                                                                                   |
| 12. | SOW              | M&S clauses reference "agreed SLAs", "severity levels" and escalation hierarchy repeatedly (e.g., Cl. 3, 26, 29) but no SLA table (response/resolution times by severity) is included in the tender.                                                                                                                                      | Please share the SLA table (severity definitions, response and resolution times, penalty/credit mechanism) to be used for M&S performance measurement, or confirm it will be finalized during the design phase.                                                                                                                  | Refer section 4.5 & 5 of SOW, SLA table, definition and measurement for M&S performance is mentioned in SOW.                                                                                                                                                                        |
| 13. | Price Bid Format | "Total Contract Value" (the denominator for the 20% M&S floor) is not explicitly defined as Implementation-only, Implementation + Infrastructure, or all three SOR parts combined.                                                                                                                                                        | Please confirm whether "Total Contract Value" for the M&S >=20% test includes Part-II Infrastructure/subscription value, or only Part-I Implementation + Part-III M&S.                                                                                                                                                           | The payment terms state that total M&S value shall not be less than 20% of the "Total Contract Value quoted in the Price Bid Format." The total contract value denominator includes all quoted price-bid components, including implementation, infrastructure/subscription and M&S. |
| 14. | SOW              | Bidder must conduct VAPT before Go-Live and every 6 months thereafter "through CERT-In empanelled auditors", with "no additional payment" — unclear if OIL nominates/pays the CERT-In auditor or if the bidder must engage and pay one independently each cycle.                                                                          | Please confirm whether the CERT-In empanelled VAPT auditor is nominated and paid by OIL, or is to be engaged and paid for by the bidder at each of the ~10 VAPT cycles over the M&S period.                                                                                                                                      | Engaged, paid and nominated by bidder.                                                                                                                                                                                                                                              |
| 15. | BEC              | Qualifying experience is "AI Driven Project Performance monitoring" OR "AI-enabled project controls" solutions for a broad list of asset-intensive sectors — it is not clear whether analytics/AI platforms built for adjacent domains (e.g., legal, governance, enterprise analytics) with equivalent predictive/prescriptive capability | Please confirm if AI/ML-based predictive analytics and monitoring platforms delivered for sectors/functions not explicitly listed under BEC Clause 3.1 (e.g., legal-tech, enterprise governance analytics), but demonstrating equivalent schedule/cost/risk prediction capability, would be considered as qualifying experience. | Experience criteria to be guided as per the BEC of the tender document.                                                                                                                                                                                                             |

## **ANNEXURE-I**

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|     |     | but applied outside these named sectors would qualify.                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 16. | BEC | No estimated/budgetary contract value is disclosed anywhere in the tender; only the EMD (Rs 55,77,600) and minimum turnover (Rs 10,15,65,000) hint indirectly at scale.                                                         | As a matter of transparency and to aid accurate technical solutioning, can OIL indicate an approximate budgetary range for this engagement?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | The estimated/budgetary contract value is not disclosed in the tender, as per OIL's standard procurement practice.                                                                                                                                                                                                                                                                                                     |
| 17. | SOW | Clause states OIL owns all data/derived outputs and bidder "shall have no ownership rights", but does not address portability/export format obligations at contract exit beyond the general Exit Management clause (Cl. 39-44). | Please confirm the expected data/model export formats and timelines for the Exit Management phase, to be reflected in the exit plan and costed appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Exit management requires migration of VMs, data, content, scripts, software, virtual machine images and other assets to a new environment or alternate CSP, with handover through industry-standard media. It also requires comprehensive exit management plan, updated documentation, KT and transition support. Exit management plan to be provided during start of M&S period and taken under last 2 months of M&S. |
| 18. | BEC | Extension of Bid closing date by 4 weeks                                                                                                                                                                                        | <p>Query 1: Extension of Bid Closing Date by 4 Weeks<br/>Reference: Forwarding Letter — Bid Closing Date</p> <p>We request a minimum 4-week extension of the Bid Closing Date on the following grounds:</p> <ul style="list-style-type: none"> <li>• The solution involves AI/ML, ERP integration, and enterprise-wide deployment requiring detailed architecture and sizing.</li> <li>• TPI verification of all BEC documents is time-intensive and cannot be expedited beyond a point.</li> <li>• Prospective bidders need time for partnership/JV formalization given the multi-disciplinary nature of the scope.</li> <li>• Adequate time is needed post-Pre-Bid Conference to incorporate clarifications/addenda.</li> </ul> | It is being reviewed. Any extension in the Bid Closing Date (BCD), shall be intimated through issuance of an appropriate corrigendum.                                                                                                                                                                                                                                                                                  |
| 19. | BEC | Relaxation of Technical Qualification (BEC Clause 3.1)                                                                                                                                                                          | <p>Query 2: Relaxation of Technical Qualification (BEC Clause 3.1)<br/>Reference: BEC Clause No. 3.1 — Experience Criteria<br/>Issue: The current criteria simultaneously</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No change. BEC clause shall prevail.                                                                                                                                                                                                                                                                                                                                                                                   |

## **ANNEXURE-I**

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|-----|-----|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     |                  | <p>requires AI/ML predictive analytics + project performance monitoring + ERP integration + asset-intensive sector experience — all within a single project. This is an extremely niche combination that restricts the bidder pool to potentially 1-2 companies and limits healthy competition.</p> <p>Suggested Modification: We request that BEC Clause 3.1 be broadened to accept experience in ANY ONE of the following:</p> <p>(a) Any AI/ML-based analytics or decision-support solution for enterprise project/portfolio management; OR</p> <p>(b) IT solution implementation for project monitoring/controls in asset-intensive industries (with or without AI/ML); OR</p> <p>(c) AI/ML-based predictive analytics solution for any business function in asset-intensive industries.</p> <p>Rationale: Broader criteria would encourage wider participation, competitive pricing, and innovative solutions while still ensuring technically competent bidders. Companies with strong AI/ML and project management capabilities can deliver the envisaged solution effectively.</p> |                                                                                                                                                             |
| 20. | SOW | A1. Primavera P6 | <p>Please confirm the Primavera P6 version(s) currently in use, the hosting model (on-premises or cloud), and the integration access method available — standard Web Services/REST API, or database-level export/OEM connector only. We understand full technical discovery is a Phase-2 activity, but even an indicative answer now would help us design the right connector approach and estimate integration effort for the bid.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 Professional 22, on prem, DB - MS SQL Server, P6 Integration Api (needs to be explored by the vendor else other mechanism to be developed by the vendor). |

## **ANNEXURE-I**

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| 21. | SOW |                           | Please confirm the number of active Primavera project instances/EPS nodes currently in scope, and whether a defined pilot subset of projects is planned for Phase 1 before wider rollout.                                                                                                                                                 | Indicative counts: active/planned projects: 40 nos. WBS/Activity: 800 to 4000 per project, rest will be finalized during implementation phase. No pilot subset of projects allowed, solution to be deployed on all existing list of projects.                                                                                                                     |
| 22. | SOW |                           | Please confirm whether resource-loaded schedules are maintained consistently across projects, or only for select high-value projects — this affects the feasibility and scope of the What-If Simulation capability.                                                                                                                       | All projects.                                                                                                                                                                                                                                                                                                                                                     |
| 23. | SOW |                           | Please confirm the approximate number of years of historical schedule and baseline/re-baselining data available in Primavera, in structured, exportable form.                                                                                                                                                                             | 5 years.                                                                                                                                                                                                                                                                                                                                                          |
| 24. | SOW | A2. ERP/Financial Systems | Please confirm the specific ERP system(s) in production (SAP, Oracle, or other) and the relevant modules (FI/CO, PS, MM) that hold project cost data.                                                                                                                                                                                     | SAP.                                                                                                                                                                                                                                                                                                                                                              |
| 25. | SOW |                           | Please confirm whether a standardized WBS-to-Cost-Center mapping already exists between Primavera and the ERP system, or whether it needs to be established as part of this engagement.                                                                                                                                                   | SAP integration not configured. Any WBS -to-Cost-Center mapping (if any) done by the users in individual projects.                                                                                                                                                                                                                                                |
| 26. | SOW |                           | Please confirm whether cost commitments, actuals, and forecasts in the ERP system are updated on a real-time transactional basis, or only through periodic (monthly/quarterly) closing cycles, so we can set realistic expectations for how 'real-time' our cost KPIs can genuinely be.                                                   | Cost Commitment: Periodic update (quarterly basis).<br>Actual cost: Batch update is acceptable.<br>Forecast: Every six months.                                                                                                                                                                                                                                    |
| 27. | SOW |                           | Please confirm whether project cost data is maintained entirely in INR, or whether multi-currency consolidation is required for any joint-venture or overseas project components.                                                                                                                                                         | Multi-currency, majorly INR & USD.                                                                                                                                                                                                                                                                                                                                |
| 28. | SOW | A3. Engineering Tools     | Of the eight engineering tools named (HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite), please confirm which are actually in active, organization-wide use today, versus tools 'as and when procured' per Section 1(a) that are not yet deployed — this materially changes what can realistically be integrated in Phase 1. | Primavera is currently in use and Aspen HYSYS, Pipesim, OLGA, Flaresim, Fathom, HTRI, CAESAR, PVElite, ERP and GIS as integration target. During bid, bidders must inventory relevant systems, versions and integration mechanisms. Exact live/planned tool status will be identified during discovery with OIL. All components should be considered during bids. |

## **ANNEXURE-I**

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| 29. | SOW |                           | For engineering tools currently in active use, please confirm whether their outputs are stored in a central, API-accessible repository, or typically retained on individual engineers' workstations.                                                   | Primavera is hosted on a central server, API's access will be provided.                                                                                                                            |
| 30. | SOW |                           | Please confirm whether the required integration with engineering tools is one-way (read-only extraction) or whether bidirectional write-back is also expected.                                                                                         | One way read only extraction.                                                                                                                                                                      |
| 31. | SOW | A4. GIS & Spatial Data    | Please confirm the GIS platform(s) currently in use, the available spatial data formats/coordinate reference system, and whether real-time asset/pipeline tracking data is available, or GIS data is limited to static route/asset layers.             | OIL will provide the relevant GIS system details, available formats, and nature of spatial layers during the Discovery phase. The bidder may assume GIS integration for static route/asset layers. |
| 32. | SOW |                           | Please confirm the approximate monthly/quarterly volume of documents (EPC reports, contractor submissions, hydrotest/machine reports) expected for OCR processing, and the typical source language(s).                                                 | Will be provided during discovery.                                                                                                                                                                 |
| 33. | SOW | A5. Documents & OCR       | Please confirm the typical quality of source documents — mostly born-digital PDFs versus scanned/handwritten records — and whether a central Document Management System exists from which documents can be pulled via API, as referenced in Section 7. | To be confirmed during discovery; Most of the documents are in a structured format. Approx. 15% documents per project may be requiring OCR.                                                        |
| 34. | SOW |                           | Please confirm the estimated total data volume (in TB), including historical archives, expected across all in-scope source systems combined — a primary sizing input for the Data Lake and Data Warehouse.                                             | ~12 GB. Actuals to be provided during discovery phase.                                                                                                                                             |
| 35. | SOW | A6. Data Quality & Volume | Please confirm whether a formal data quality assessment already exists for any source system, or whether this should be planned as a dedicated Discovery-phase activity.                                                                               | Data quality assessment should be planned as a Discovery-phase activity, including profiling of completeness, consistency, lineage, and usability for AI/ML training.                              |

## ANNEXURE-I

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| 36. | SOW |                                     | Section 2.1 identifies contract management records (LoA, change orders, PBG records, statutory compliance, contract extensions) as part of the data landscape to be addressed, but no dedicated contract management system is named anywhere. Please confirm the specific system/platform used to maintain this data today, and the integration/access method available. | No such digital tool for contract management system except ERP.                                                                                                                                                                                                                                                                                                   |
| 37. | SOW | A7. Newly Identified Source Systems | Please confirm whether contract management data integration is required for Phase-1 Go-Live — this was not one of the five integration categories (Primavera, ERP, Engineering Tools, GIS, Documents) originally priced in the BOQ.                                                                                                                                      | Primavera is currently in use and Aspen HYSYS, Pipesim, OLGA, Flaresim, Fathom, HTRI, CAESAR, PVElite, ERP and GIS as integration target. During bid, bidders must inventory relevant systems, versions and integration mechanisms. Exact live/planned tool status will be identified during discovery with OIL. All components should be considered during bids. |
| 38. | SOW |                                     | Section 7 (OIL's Scope) separately lists EAM/CMMS, HRMS, and Risk Register among systems for which OIL will provide access. Please confirm whether integration with these is mandatory Phase-1 scope, and if so, the specific platform for each and the nature of data required.                                                                                         | Primavera is currently in use and Aspen HYSYS, Pipesim, OLGA, Flaresim, Fathom, HTRI, CAESAR, PVElite, ERP and GIS as integration target. During bid, bidders must inventory relevant systems, versions and integration mechanisms. Exact live/planned tool status will be identified during discovery with OIL. All components should be considered during bids. |
| 39. | SOW |                                     | Please confirm the availability of labeled historical data identifying root causes of past delays/cost overruns (e.g., contractor default, weather, design change) — this ground-truth labeling is essential for supervised model training, and its absence would meaningfully extend Discovery and Development effort.                                                  | If such labels are unavailable or incomplete, the bidder shall work with OIL during Discovery to define a root-cause taxonomy and labelling approach.                                                                                                                                                                                                             |
| 40. | SOW | B1. Training Data & Model Scope     | The SOW notes the minimum historical data period and minimum number of completed projects for AI training will be 'confirmed by OIL during discovery.' For bid-costing purposes, could OIL share even an indicative range now (roughly how many years of history, across how many completed projects of varying complexity)?                                             | Historical data related to Primavera is around 12 GB and anticipated data for the same will be around 20-25 GBs (+/- 10%).<br><br>Tentative availability of data ~ 5 yrs<br><br>Indicative counts: active/planned projects: 40 nos. WBS/Activity: 800 to 4000 per project. To be finalized during implementation phase.                                           |
| 41. | SOW |                                     | Please confirm whether any regulatory or internal data-residency restriction would prevent project data from being processed — not just stored — in a MeitY-empanelled public                                                                                                                                                                                            | Tender terms shall prevail.                                                                                                                                                                                                                                                                                                                                       |

## **ANNEXURE-I**

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|     |     |                                | cloud AI environment within an India data center.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                               |
| 42. | SOW |                                | Please confirm the expected back-testing methodology for validating AI models against historical data — for example, training on all years except the most recent and testing on that held-out year, or a different defined holdout approach.                                                                                                                                                                                                                                                                           | The bidder should propose a statistically valid training/validation/hold-out approach in the AI/ML Design Document, to be reviewed and approved by OIL during design.                                                                                                                                         |
| 43. | SOW | B2. Accuracy SLA & Definitions | SLA Section 4.4 requires 'at least 90% accuracy with 90% confidence interval,' and separately states the solution should 'get integrated with 95% of the project planning tools with accuracy of 90%.' This wording is genuinely ambiguous to us — could OIL clarify whether 'accuracy' here refers to (a) AI/ML prediction accuracy for delay/cost-overrun forecasts, (b) data integration/synchronization completeness across source systems, or whether both are measured independently with separate SLA treatment? | The 90% accuracy is of AI/ML prediction accuracy for delay/cost overrun forecasts and any other solution components. In addition, there should be 95% integration completeness across source systems. SLA is on the accuracy of the Tool w.r.t outputs of prediction.                                         |
| 44. | SOW |                                | Related to the above, please confirm the precise statistical basis for the '90% confidence interval' — for instance, a classification-accuracy confidence interval, or an error bound (such as MAPE) on a regression-style forecast — so both sides design and validate against a shared standard.                                                                                                                                                                                                                      | The bidder should propose suitable metrics by use case, such as MAPE/RMSE for regression and precision/recall/accuracy for classification during implementation, which will then be reviewed by OIL for adoption.                                                                                             |
| 45. | SOW |                                | The Implementation Timeline sets UAT acceptance at '>80%' model performance, while the ongoing SLA (Section 4.4) requires ≥90% with tiered penalties down to a 'not acceptable' floor below 80%. Could OIL confirm whether the 80% UAT threshold is simply the one-time Go-Live gate, after which the 90% SLA applies immediately from Day 1 of M&S, or whether a ramp-up period is intended?                                                                                                                           | The >80% model performance is the minimum UAT/Go-Live acceptance gate, while ≥90% accuracy is the ongoing SLA target with tiered penalties. No ramp-up period will be provided, post UAT/Go-Live even at a model performance of >80%, penalties will be accrued until expected accuracy of ≥ 90% is achieved. |
| 46. | SOW |                                | Please confirm which specific AI/ML use cases — schedule delay prediction, cost overrun prediction, and/or high-risk-task identification — are intended to be covered by the accuracy-linked SLA penalty structure.                                                                                                                                                                                                                                                                                                     | The accuracy-linked SLA shall apply to the AI/ML use cases implemented under the project, including schedule delay prediction, cost overrun prediction, high-risk task/activity identification and any other solution component as designed during project implementation.                                    |

## **ANNEXURE-I**

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| 47. | SOW | B3. Model Governance & Explainability | Please confirm whether OIL requires a specific explainability technique (such as SHAP or LIME) for the 'explainable outputs' requirement, or whether model-agnostic, plain-language explanations of key prediction drivers would be acceptable.                       | The bidder to propose a specific explainability Technique to be reviewed and approved by OIL during Implementation.                                                              |
| 48. | SOW |                                       | Please confirm whether OIL has an internal Data Science/Analytics team that will formally co-validate AI/ML models at the 'Post AI/ML Model Development' demonstration milestone, or whether sign-off rests with the designated project business owner alone.         | Sign-off would be managed by User Department and contract owner.                                                                                                                 |
| 49. | SOW |                                       | Please confirm the expected cadence for AI model retraining during M&S — a fixed schedule (e.g., quarterly), or purely trigger-based when data drift is detected, as Section 5 (Item 15) references retraining 'wherever applicable' without stating a frequency.     | Bi-annually keeping in mind the model performance should meet SLA, else it should be re-trained prior to the set bi-annually frequency.                                          |
| 50. | SCC |                                       | The Inspection clause in the SCC permits OIL to audit training datasets, feature definitions, and model hyperparameters at any time. Could OIL indicate the expected frequency/format of such audits, so this can be resourced appropriately within the support team? | Frequency and format of such audits will be agreed during governance and operations planning though it is not a periodic fixed audit it can be done by OIL as and when required. |
| 51. | SOW | C1. High Availability & DR            | Please confirm OIL's required Recovery Point Objective (RPO) and Recovery Time Objective (RTO) for the Solution, as the NFR section references 'agreed RPO/RTO' without stating specific targets.                                                                     | The bidder should propose RPO/RTO targets aligned to the 99.95% uptime requirement, backup policy, and deployment model, subject to OIL approval.                                |
| 52. | SOW |                                       | Please confirm whether a dedicated, geographically separate Disaster Recovery site/region is mandatory from Go-Live, or whether cloud-native geo-redundancy (e.g., Azure paired-region replication) is sufficient to meet the 99.95% Uptime SLA.                      | Bidder is free to propose to meet the required tender requirement.                                                                                                               |
| 53. | SOW |                                       | Please confirm whether the 99.95% Uptime SLA applies uniformly to every component in the SLA's own Uptime definition (data ingestion, AI/ML execution layer, dashboards, APIs) — holding a batch-oriented AI/ML layer to the same real-time uptime bar as a dashboard | The SLA definition covers the end output of the solution basis the KPIs on which solution is based.                                                                              |

## **ANNEXURE-I**

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|     |     |                               | would be unusual, so we'd like to confirm this is intended.                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                           |
| 54. | SOW |                               | Is a formal Business Continuity Plan (BCP), separate from the technical DR strategy, expected as a contractual deliverable?                                                                                                                                                                                           | No.                                                                                                                                                                                                                                                                                                                       |
| 55. | SOW |                               | Please confirm whether 'Scheduled Maintenance Time' — excluded from the Uptime calculation — has an agreed monthly ceiling, so both sides share an unambiguous basis for measuring the SLA.                                                                                                                           | Scheduled maintenance should be excluded from Uptime calculation, to be discussed with OIL.                                                                                                                                                                                                                               |
| 56. | SOW | C2. Scalability & Performance | Please confirm the expected peak number of concurrent active users at Go-Live, and anticipated growth in users and active projects over the 5-year term, to size compute and licensing correctly.                                                                                                                     | ~50 users, 30% concurrent.                                                                                                                                                                                                                                                                                                |
| 57. | SOW |                               | Please confirm specific numeric performance thresholds — maximum dashboard load time, maximum data-refresh latency — as the NFR section references 'agreed thresholds' without values, and the Timeline table itself leaves 'X concurrent users' as an unfilled placeholder for performance-test acceptance criteria. | These will be finalized during design. A tentative guideline given as: management summary dashboards should load within 5 seconds including detailed project drill-down views under normal load. Final thresholds to be agreed during design/performance test planning. Filters to load results within 5 seconds maximum. |
| 58. | SOW |                               | Please confirm the expected daily data-refresh cutoff (e.g., 'the overnight batch must complete by 6:00 AM IST') that dashboards must reflect each business day.                                                                                                                                                      | The bidder should propose a suitable batch completion window, such as before business hours, to be approved by OIL.                                                                                                                                                                                                       |
| 59. | SOW |                               | For AI/ML inference, please confirm whether predictions are pre-computed on a nightly batch schedule, or generated on-demand in near real-time when a user opens a dashboard — this has a real bearing on compute architecture and cost.                                                                              | Ideally should be on-demand when a user opens a dashboard. To be aligned and finalized with OIL's consent during discovery.                                                                                                                                                                                               |
| 60. | SOW |                               | Please confirm whether infrastructure cost growth from organic usage increases is absorbed within fixed M&S charges, or handled via a separate scale-up approval and commercial adjustment — Section 5 requires OIL approval for scale changes but doesn't state the commercial treatment.                            | This will be undertaken on a case-by-case basis during project implementation.                                                                                                                                                                                                                                            |
| 61. | SOW | C3. Integration Architecture  | Please confirm whether OIL has an existing/standard API Gateway or integration                                                                                                                                                                                                                                        | The bidder should confirm availability during Discovery before proposing any new middleware.                                                                                                                                                                                                                              |

## **ANNEXURE-I**

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|     |     |                                     | middleware platform the Solution should integrate with, rather than introducing a new one.                                                                                                                                                                                                                               |                                                                                                                                                                                                                     |
| 62. | SOW |                                     | Please confirm whether Solution APIs (for the CCC, mobile app, or third-party consumption) must be published through OIL's existing API Gateway/management layer, and if so, its platform.                                                                                                                               | OIL does not have any existing API gateway.                                                                                                                                                                         |
| 63. | SOW |                                     | Please confirm the specific/preferred Azure region for data residency (beyond the general requirement that data be 'stored within India'), and the available network bandwidth/connectivity (MPLS/VPN/ExpressRoute) between OIL's regional sites and the deployment region.                                              | To be provided during discovery.                                                                                                                                                                                    |
| 64. | SOW | C4. Security, Identity & Compliance | Please confirm whether Single Sign-On/MFA integration needs to extend to every user category, including any external/contractor-facing users, or only to internal OIL employees.                                                                                                                                         | Internal OIL Employees.                                                                                                                                                                                             |
| 65. | SOW |                                     | Please confirm whether the project portfolio includes any commercially or strategically sensitive assets (e.g., specific pipeline routes or asset locations) requiring special data handling, masking, or access restriction beyond standard RBAC.                                                                       | The solution must support RBAC, data-level security, masking where required, and alignment with OIL's data protection policies. The project portfolio might include commercially or strategically sensitive assets. |
| 66. | SOW |                                     | Please confirm whether background verification or security clearance is required for bidder personnel — including any offshore/remote team members — accessing production project data, given OIL's PSU status.                                                                                                          | Details will be shared prior to implementation.                                                                                                                                                                     |
| 67. | SOW |                                     | M&S Item 16 requires cloud providers to comply with IEC 62443, an OT/industrial-automation security standard. Could OIL clarify whether this Solution is expected to interface with any OT/ICS systems (SCADA, DCS) justifying this requirement, or whether it is standard boilerplate not specifically applicable here? | Interface with OIL's existing SCADA & DCSs not required.                                                                                                                                                            |
| 68. | SOW |                                     | Please confirm the specific frequency expected for full and incremental backups of application and database servers, as Items 35/37 defer this                                                                                                                                                                           | To be provided during implementation.                                                                                                                                                                               |

## **ANNEXURE-I**

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|     |     |                                  | to 'discussions with the OIL IT team' without a defined baseline.                                                                                                                                                                                                                                                                                              |                                                                                                                                                                      |
| 69. | SOW |                                  | The SOW/SCC reference the Data Classification & Protection Policy, ICT Data Backup Policy, and General Health & Safety Policy as documents the Solution must align with, but none were included in the documents we've received. Could OIL kindly share copies, as they directly influence several data-handling, backup, and on-site safety design decisions? | To be provided during project implementation.                                                                                                                        |
| 70. | SOW | D1. User Base & Roles            | Section 3.2 names four dashboard personas (Senior Management, Project Managers/Planners, Discipline Engineers, Finance/Contract teams) but gives no headcount for any of them. Please confirm the expected number of users in each persona, as this is the primary driver of our licensing cost estimate.                                                      | Per project the cited four dashboard personas shall be considered. i.e. No. of dashboard users= No. of projects*4. Further to be finalized during implementation.    |
| 71. | SOW |                                  | Please confirm whether user counts are expected to stay broadly static through the 5-year M&S term, or grow — and if growth is expected, a rough year-on-year trajectory would help size elastic licensing correctly.                                                                                                                                          | Expected to remain same, with +/- 10% buffer.                                                                                                                        |
| 72. | SOW |                                  | Will any external users — EPC contractors, consultants, or JV partners — require access to the platform, and if so, to which specific dashboards or data should their access be limited?                                                                                                                                                                       | Internal OIL Employees.                                                                                                                                              |
| 73. | SOW |                                  | Please confirm the total number of OIL locations/sites — beyond Duliajan HQ — across the 'PAN-India' footprint mentioned in Section 8 that will require platform access, as this affects both licensing and rollout planning.                                                                                                                                  | OIL's spheres are Duliajan, Rajasthan, Andaman, Kakinara, Guwahati, Delhi NCR though the solution should be centrally accessible from any location for all assets.   |
| 74. | SOW | D2. Access Control & Permissions | Please confirm the specific permission boundaries expected per persona — for example, can Project Managers see portfolio-level cost data outside their own projects, and which role(s), if any, are authorized to override AI-generated risk scores or forecasts (Section                                                                                      | These will be defined in the role matrix during design, yes overriding of AI generated risk and scores or forecasts will be role-controlled and logged with reasons. |

## **ANNEXURE-I**

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|     |     |                                 | 3.2 requires logging of override reasons, but doesn't say who is allowed to override).                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                           |
| 75. | SOW |                                 | Will any external/contractor-facing users be provisioned through OIL's Azure AD, or does the Solution need a separate external identity/guest-access mechanism?                                                                                                                                                                                                               | Internal OIL Employees.                                                                                                                                                                   |
| 76. | SOW | D3. Delivery Model — Deployment | Please confirm OIL's actual preferred deployment model — on-premises, private cloud, or PSU-compliant public cloud — for bid-evaluation purposes. The SOW allows for any of the three, but a bidder has to design and cost one specific target architecture, so knowing OIL's genuine preference would help us propose the most relevant solution.                            | PSU-Compliant Public Cloud SaaS based solution.                                                                                                                                           |
| 77. | SOW |                                 | Section 3.2 states the reporting layer should use a 'BI tool of choice, as agreed with OIL,' rather than mandating a specific product. Does OIL have an existing enterprise BI standard — Power BI, Tableau, Qlik, or another — that this Solution should align with, or is the bidder free to propose the BI tool?                                                           | Bidders should propose their recommended architecture with clear assumptions.                                                                                                             |
| 78. | SOW |                                 | The Payment Milestones table references a 'SaaS visualization subscription' as a distinct, separately billed line item. Could OIL clarify what this implies — specifically, whether the reporting/dashboard layer must be delivered as a subscribed SaaS product rather than a self-hosted or platform-licensed BI deployment, and whether any specific product is preferred? | The “SaaS visualization subscription” line aims to provide a provision for allowing subscription-based visualization licensing but does not mandate it. Bidder is free to propose either. |
| 79. | SOW |                                 | Please confirm whether the core AIPPM platform itself (ingestion, data lake, AI/ML engine) is expected to be delivered as a bidder-hosted SaaS offering, or deployed within OIL's own environment/Azure subscription as a licensed platform — this is a fairly fundamental architectural decision that affects almost every other design choice.                              | SaaS/cloud-based solution, and only integrated/routed through OIL's Azure landing zone for security/compliance.                                                                           |
| 80. | SOW |                                 | If a SaaS delivery model is ultimately chosen, please confirm OIL's expectation on multi-                                                                                                                                                                                                                                                                                     | Dedicated Single Tenant instance.                                                                                                                                                         |

## **ANNEXURE-I**

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|     |     |                                      | tenancy — a dedicated single-tenant instance versus a shared multi-tenant SaaS offering — given the sensitivity of project cost and schedule data involved.                                                                                                                                                                                                                                                  |                                                                                                                                 |
| 81. | SOW | D4. Mobile & Field App               | The Payment Milestones section also references a 'Field mobile app subscription' as a possible line item, but no mobile application is explicitly described anywhere in the functional requirements. Could OIL confirm whether a native mobile/field application is in fact a mandatory deliverable?                                                                                                         | Required.                                                                                                                       |
| 82. | SOW |                                      | If a mobile/field app is required, please confirm its intended functional scope — field progress capture, offline data entry with sync, push notifications for alerts, or simply read-only dashboard access — and the intended user base.                                                                                                                                                                    | Suitable features to include push notifications, and read-only dashboard access, further to be finalized during implementation. |
| 83. | SOW |                                      | Please confirm whether offline capability is required for the mobile app, or for any part of the web-based platform, for field locations with limited or intermittent connectivity.                                                                                                                                                                                                                          | No.                                                                                                                             |
| 84. | SOW | D5. Command-and-Control Center (CCC) | Section 3.3 requires the Solution to 'integrate with the Command-and-Control Center (CCC) for visualization of project dashboards, reporting, and analytics.' Could OIL share some background on the existing CCC — its physical location(s), current visualization technology, and data-feed protocols already supported — as this requirement currently has no supporting detail for us to design against? | CCC is currently in build phase, required details can be shared in discovery.                                                   |
| 85. | SOW |                                      | Related to the above, please confirm the specific nature of the CCC integration required — is exposing standard dashboard URLs/embeds sufficient, or is a dedicated API/data-feed with a defined refresh cadence and a video-wall-optimized format expected?                                                                                                                                                 | Expected standard dashboard URLs/embeds, to be finalized during discovery.                                                      |
| 86. | SOW |                                      | Is the CCC a single centralized facility (e.g., Duliajan), or are there multiple regional CCCs each requiring integration, and who currently owns/operates it?                                                                                                                                                                                                                                               | Corporate Office (WTC Delhi), FHQ Duliajan, PHQ (Guwahati), and RF (Rajasthan).                                                 |

## **ANNEXURE-I**

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| 87. | SOW | E. UI/UX                       | Does OIL have an existing corporate design system or dashboard branding guideline (colors, logo placement, typography) that the Solution's UI should follow, or does the bidder have reasonable design latitude?                                | This would be shared and aligned on during dashboard designing phase by OIL.                                                                                                                    |
| 88. | SOW |                                | Please confirm the primary language(s) required for the UI, dashboards, and system-generated reports — English-only, or with Hindi/regional-language support for certain field-level or contractor-facing views.                                | English.                                                                                                                                                                                        |
| 89. | SOW |                                | Are there specific accessibility (e.g., WCAG 2.1) or browser-compatibility standards mandated for OIL's internal digital platforms that this UI would need to meet?                                                                             | No browser compatibility standard currently mandated.                                                                                                                                           |
| 90. | SOW |                                | Given the CCC integration requirement, does OIL need a distinct large-screen-optimized dashboard view in addition to the standard desktop/web views used by individual users?                                                                   | Yes, distinct large screen optimized dashboard view would be required for CCC integration.                                                                                                      |
| 91. | SOW |                                | Section 3.2 describes a drill-down hierarchy from portfolio through project, WBS, activity, and location/GIS. Would OIL prefer this as a single continuous drill-path within one dashboard, or as separate dashboards per hierarchy level?      | Bidder may propose either continuous drill-down or linked dashboards by hierarchy level, further this will be aligned and confirmed with OIL during design phase.                               |
| 92. | SOW |                                | Are there specific requirements for exporting dashboards/reports — for example, PDF/PPT export for the 'executive summaries for steering committee meetings' mentioned in Section 3.2 — that should be factored into UI design from the outset? | Given the requirement for reports and executive summaries, bidders should include common export options such as PDF/Excel/PPT, subject to OIL confirmation during implementation.               |
| 93. | SOW | F. Functional & Business Scope | Please confirm the total number of projects expected to be onboarded in Phase 1 (and any pilot subset), the approximate aggregate value of the project portfolio to be monitored that are in scope.                                             | No pilot subset, solution will reside on existing data. Indicative counts: active/planned projects: 40 nos. WBS/Activity: 800 to 4000 per project. To be finalized during implementation phase. |
| 94. | SOW |                                | Please confirm whether joint-venture or partner-operated projects — where OIL holds a stake but is not the sole operator — are                                                                                                                  | Only for Internal OIL.                                                                                                                                                                          |

## **ANNEXURE-I**

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|      |     |                              | included in scope, and whether any data-sharing constraints apply with JV partners.                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                            |
| 95.  | SOW |                              | Please confirm whether CPI/SPI and other EVM metrics are currently calculated using a single, standardized methodology across all projects, or whether calculation practices vary by project or business unit — inconsistent practice would meaningfully increase the effort needed to build a single Semantic Layer.                                                                                                                                                                 | To be provided during discovery.                                                                                                                           |
| 96.  | SOW |                              | Is there an existing project risk register or RAG (Red-Amber-Green) rating framework already in use that the platform's AI-driven risk scoring should align with, or is it intended to formally replace such a framework?                                                                                                                                                                                                                                                             | It can replace existing framework.                                                                                                                         |
| 97.  | SOW |                              | Please confirm the designated OIL business owner who will be responsible for approving KPI definitions, alert thresholds, and escalation logic during the Design phase.                                                                                                                                                                                                                                                                                                               | Will be finalized during project phase.                                                                                                                    |
| 98.  | SOW |                              | Is there a fixed operational deadline for this initiative tied to any board-level or DRIVE 2.0 program-level reporting commitment, independent of the phase-wise schedule already proposed in the SOW?                                                                                                                                                                                                                                                                                | Tender terms shall prevail.                                                                                                                                |
| 99.  | SOW | G. Discovery Phase Readiness | Given that Discovery, Technical Due Diligence & Design is scoped at just 1.5 months, and covers a systems inventory across ten-plus source systems, integration-options analysis, full data profiling, and complete architecture/data-model/AI-design sign-off, could OIL confirm that a dedicated point of contact or data owner will be made available from each source-system team throughout this window? Without this, the compressed timeline carries meaningful schedule risk. | OIL will nominate relevant SPOCs/data owners from source-system teams during Discovery to support system inventory, data profiling, and design activities. |
| 100. | SOW |                              | Would OIL be able to share representative or sample historical project data for a small set of projects before formal Discovery kick-off — for instance, during a pre-award technical due-diligence stage — so early data-profiling work can begin sooner and reduce risk to the compressed Discovery timeline?                                                                                                                                                                       | Not allowed.                                                                                                                                               |

## **ANNEXURE-I**

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| 101. | SOW |                                      | Please confirm the expected depth and format of the Data Profiling Report and Technical Landscape & Integration Options Report deliverables — a single consolidated report, or a dedicated report per source system — as this affects how we plan and resource the Discovery phase.                                                                                           | To be aligned with OIL in discovery phase.                                                                                                                              |
| 102. | SOW |                                      | During Discovery, will the bidder be given access to real (if necessary, appropriately masked) historical project records for data profiling, or will illustrative/synthetic sample data be used at this stage, with full access only granted later?                                                                                                                          | Discovery is expected to use actual project data where permitted, with masking/anonymization if required, no synthetic data.                                            |
| 103. | SOW |                                      | Please confirm who from OIL's side is authorized to formally approve and sign off the Solution Design Document, the logical/physical data model, and the AI/ML Design Document at the end of Discovery, and the expected turnaround time for this review — this is a hard gate before Phase 3 can begin.                                                                      | OIL's approving authority for SDD, data model, and AI/ML design will be defined during kickoff/governance setup. Review will be done keeping overall timelines in mind. |
| 104. | SOW |                                      | If data profiling during Discovery uncovers materially more complexity than anticipated (e.g., significantly poorer data quality, or additional undocumented source systems), how would OIL prefer this be governed contractually — would it extend the Discovery window itself, or be absorbed 105.within subsequent phases without adjusting the o106.verall 8-month clock? | Absorbed within subsequent phases without adjusting the overall indicated timeline.                                                                                     |
| 105. | SOW |                                      | Will OIL's functional teams (Finance and Planning, in particular) be available to jointly validate the Data Quality Rules Catalogue and cross-system reconciliation logic (e.g., Primavera schedule dates versus ERP actuals) developed during Discovery, before proceeding to Phase 3?                                                                                       | Yes.                                                                                                                                                                    |
| 106. | SOW | H1. Organizational Change Management | The SCC describes a 'change champion' role that OIL will provide to support the bidder's change management plan. Please confirm the expected size of this change-champion network                                                                                                                                                                                             | ~2 per business unit/site, time commitment will be based out as per requirements during solutioning phase.                                                              |

## **ANNEXURE-I**

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|      |     |                                            | (e.g., one per business unit or site) and their anticipated time commitment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                           |
| 107. | SOW |                                            | Please confirm whether formal organizational change management deliverables — communication plans, adoption tracking, resistance management — are a distinct scope item for the bidder, or whether the bidder's role is limited to training delivery plus support of OIL-led change activities.                                                                                                                                                                                                                                                                                                                                             | Tender terms shall prevail.                                                                                                                                                                                                               |
| 108. | SOW | H2. Technical/Scope Change Request Process | Items 14 and 15 under Maintenance & Support place a fairly broad set of ongoing activities — UI modifications, additional rule-based implementations, integrating with other IT systems, and adding new data sources — under the fixed M&S charges. Could OIL clarify the intended boundary between what's covered under fixed M&S scope versus what would need a separately-priced Change Request, and whether any defined level of effort (e.g., a certain number of hours per quarter) is meant to be included within the fixed scope? As written, this is the single largest area of scope ambiguity we've identified in the M&S terms. | Tender to prevail. All activities mentioned under M&S will be considered as fixed. Any changes that require quantum work would be taken on a case-by-case basis during project implementation and final approving authority would be OIL. |
| 109. | SOW |                                            | Please confirm the formal Change Request governance process expected during M&S — submission format, impact-assessment turnaround time, and approval authority — for changes falling outside fixed M&S scope.                                                                                                                                                                                                                                                                                                                                                                                                                               | Will be finalized during project phase.                                                                                                                                                                                                   |
| 110. | SOW |                                            | For 'adding more sources into the existing application' (Item 15), please confirm whether this means additional instances of already-integrated system types, or extends to entirely new source system types — these represent very different levels of effort.                                                                                                                                                                                                                                                                                                                                                                             | New source system types.                                                                                                                                                                                                                  |
| 111. | SOW |                                            | Please confirm the expected OIL-side sign-off process for smaller M&S enhancements — a full UAT cycle each time, or a lighter-weight review appropriate to the size of the change.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Minor changes may follow lightweight review, while material changes should undergo formal UAT and approval as per alignment with OIL on a need by need basis.                                                                             |
| 112. | SOW | H3. On-Site Presence & Resourcing          | The Manpower table (Section 3.6) specifies eight key roles with FTE counts and qualifications, but doesn't indicate work location for any of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mandatory on-site requirement for all roles.                                                                                                                                                                                              |

## **ANNEXURE-I**

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|      |     |  | them. Please confirm which roles are expected to be based on-site at Duliajan — full-time or on periodic visits — and which may operate fully remotely.                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                     |
| 113. | SOW |  | The SCC's 'Provision of Personnel Activities' clause places boarding, lodging, and local transport for 'service engineer(s)' on the bidder, stating this applies 'during Project execution including hypercare and also during maintenance & support.' Could OIL confirm which role(s) are intended as 'service engineer(s),' and whether this implies continuous on-site presence throughout the entire 60-month M&S period, or only periodic site visits? This has a meaningful bearing on our manpower costing.   | For M&S 2 FTEs as M&S Resource Requirement are to be based onsite. Please refer amendment. For Implementation phase all resources mentioned under section 3.6 Manpower Requirement would be onsite. |
| 114. | SOW |  | Kindly clarify whether the requirement of one-year payroll for key personnel is mandatory in all cases. For niche AI/ML, Data Engineering, Integration, and Project Controls roles, bidders may need to recruit highly experienced professionals from the market based on project-specific technical requirements. Will such personnel be acceptable, provided they satisfy all prescribed qualification and experience requirements and are on the bidder's payroll prior to deployment, subject to OIL's approval? | Accepted Bidder's proposition.<br>The resources should be on payroll of bidder. Change shall be made in the tender clause through issuance of corrigendum.                                          |
| 115. | SOW |  | If continuous on-site presence is in fact expected during M&S, please confirm the minimum number of personnel and role(s) expected to be physically stationed on-site at any given time.                                                                                                                                                                                                                                                                                                                             | M&S Manpower requirement is availability of 2 FTEs to be available onsite, please refer amendment.                                                                                                  |
| 116. | SOW |  | For roles not required full-time on-site, please confirm whether periodic visits are still expected — for example, the fortnightly review meetings at Duliajan referenced in the SCC — and roughly how frequently and for how long.                                                                                                                                                                                                                                                                                  | For Implementation phase all resources mentioned under section 3.6 Manpower Requirement would be onsite.                                                                                            |
| 117. | SOW |  | Beyond Duliajan HQ, please confirm which other OIL sites (referenced generically as 'PAN-India') are likely to require on-site bidder presence during Discovery, integration, or UAT                                                                                                                                                                                                                                                                                                                                 | Duliajan.                                                                                                                                                                                           |

## **ANNEXURE-I**

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|      |     |                                  | — for example, for site-specific engineering-tool access or GIS data collection.                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                          |
| 118. | SOW |                                  | Please confirm whether OIL will provide site access, safety induction, and HSE compliance support for bidder personnel visiting operational sites, as distinct from the Duliajan corporate office.                                                                                                                                                                                                                                           | Tender terms shall to prevail; visit to Duliajan is required.                                                                            |
| 119. | SOW |                                  | For key personnel who, per the SCC, cannot be changed during implementation and hypercare except in specific circumstances, please confirm whether this restriction applies equally to on-site and remote-based key personnel.                                                                                                                                                                                                               | Key-personnel change restrictions apply to approved key personnel deployed for the project, irrespective of onsite or remote deployment. |
| 120. | SOW | I. Training & Knowledge Transfer | Section 6 describes a recurring annual training obligation — '60 users (20 users × 3 batches per week) per year' — which, on our reading, represents a materially larger, ongoing commitment than a single one-time post-Go-Live training exercise. Could OIL confirm our understanding is correct, and if so, whether this should be priced as a distinct, recurring M&S line item rather than folded into a one-time training deliverable? | Training costs to be included in M&S as well, training is recurring in nature.                                                           |
| 121. | SOW |                                  | Please confirm OIL's preferred training location(s) — centralized at one site, or delivered across multiple regional locations — as this affects both logistics and delivery cost.                                                                                                                                                                                                                                                           | Centralized at one site-Duliajan.                                                                                                        |
| 122. | SOW |                                  | Is a persistent training/sandbox environment (separate from Dev/SIT/UAT/Production) required to support ongoing training of new employees after Go-Live, given the recurring annual training obligation noted above?                                                                                                                                                                                                                         | Yes, if recurring training during M&S is required.                                                                                       |
| 123. | SOW |                                  | Beyond the training itself, is a broader change-management or user-adoption program (communication campaigns, champion-user activities) expected as part of this same scope, or is it addressed separately under Organizational Change Management?                                                                                                                                                                                           | No, broader change management or user adoption program is not a part of scope.                                                           |
| 124. | SOW |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                          |
| 124. | SOW | J. Support, SLA & Operations     | Please confirm OIL's expected support coverage hours — standard 8×5 business hours, or 24×7 — particularly for P1 (Critical) incidents, since the SLA table defines response/resolution times                                                                                                                                                                                                                                                | 24x7.                                                                                                                                    |

## **ANNEXURE-I**

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|      |     |                             | but doesn't state the helpdesk's actual hours of operation.                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                        |
| 125. | SOW |                             | Does OIL have an existing IT Service Management platform (such as ServiceNow) that this Solution's incident/ticket management should integrate with, or should a standalone support desk and portal be established?                                                                                                                                                                              | Bidder is free to propose, no integration is required with existing ITSM platform, bidder to support with standalone support desk and portal establishments.                                                                           |
| 126. | SCC |                             | Please confirm the required Performance Bank Guarantee (PBG) percentage of contract value and its validity period, and whether Professional Indemnity or Cyber Liability insurance is separately mandated — neither was specified in the documents received (only the Liquidated Damages structure was defined).                                                                                 | Please refer to Clause Nos. 1.10 and 1.12 of Section-II (SCC) of the tender document regarding the submission of Performance Security and the terms and conditions of insurance, respectively, and be guided accordingly.              |
| 127. | SCC |                             | The SOW grants OIL perpetual, irrevocable, royalty-free rights to all artefacts 'developed under this contract.' Could OIL confirm whether this extends to pre-existing bidder IP or accelerator frameworks incorporated into the Solution but not developed specifically for OIL — or whether such pre-existing components would remain bidder-owned, subject to a license grant for OIL's use? | OIL's perpetual, irrevocable, royalty-free rights apply to artefacts developed under this contract. Pre-existing bidder IP/accelerators should remain bidder-owned, with OIL receiving usage rights/license as agreed in the contract. |
| 128. | SCC | K. Commercial & Contractual | The SCC states the contract price shall remain 'firm and fixed... not subject to variation on any account.' Could OIL confirm whether this extends to the underlying MeitY-empanelled public cloud subscription costs, which are inherently consumption-based and could reasonably vary with actual utilization over the 5-year term?                                                            | Vendor to ensure the proper functioning of solution on day-2-day basis. Since, the price of the solution is fixed, vendor is supposed to factor the approximate cost at their end.                                                     |
| 129. | SCC |                             | Please confirm whether any additional price-escalation mechanism applies over the 60-month M&S period beyond the year-on-year rate-card structure already reflected in the BOQ, and any statutory levies beyond GST that bidders should separately account for.                                                                                                                                  | No.                                                                                                                                                                                                                                    |
| 130. | SOW |                             | Please confirm the anticipated date of Letter of Intent/Letter of Award issuance ('TO' in the                                                                                                                                                                                                                                                                                                    | LOA issuance.                                                                                                                                                                                                                          |

## **ANNEXURE-I**

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|      |     |                             | Implementation Timeline), as this single date anchors the entire 68-month program schedule.                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |
| 131. | SOW |                             | Please confirm whether OIL prefers a phased/pilot rollout — starting with a limited set of projects before scaling organization-wide — or a single, organization-wide Go-Live, as this materially affects how we sequence resourcing and risk.                                                                                                                                                                                                                                                                           | Single organization wide Go-Live.                                    |
| 132. | SOW | L. Scope/BOQ Reconciliation | The BOQ's standard notes reference an Exit Management charge ('Line Item No. 30') and a fixed-vs-actuals classification spanning 'Line Item Nos. 10-100,' while the actual BOQ we've been asked to price contains only 27 numbered items. Could OIL clarify how these note references map onto the actual 27-item BOQ, and confirm whether Exit Management should be quoted as an additional, discrete line item? Without this, we cannot correctly apply the mandatory 5% Exit Management floor described in the notes. | Note not valid.                                                      |
| 133. | SOW |                             | Section 2.2(e) describes an 'AI-Based Lessons Learned Repository' that automatically classifies cost and delay causes across projects, as a distinct capability. Should this be scoped and priced as its own functional module, or is it part of the core Predictive Analytics capability already reflected in the BOQ?                                                                                                                                                                                                  | Treated as part of the core predictive/post-project analytics scope. |
| 134. | SOW |                             | Given the newly identified Contract Management, EAM/CMMS, HRMS, and Risk Register integrations — none of which were part of the original five-source integration scope priced in the BOQ — please confirm whether these represent mandatory Phase-1 integrations that should be reflected as additional BOQ line items.                                                                                                                                                                                                  | Tender requirements shall prevail.                                   |
| 135. | SOW |                             | Please confirm whether the CCC integration and the possible Field Mobile App should each be reflected as distinct, separately priced BOQ line items, or are included within existing dashboard/reporting line items.                                                                                                                                                                                                                                                                                                     | To be included within existing line items.                           |

## **ANNEXURE-I**

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| 136. | SOW |                                         | Please confirm whether Post-Project Analytics (baseline-vs-final-outcome comparison) is expected to run automatically on every project completion throughout the 5-year M&S term, representing an ongoing operational function rather than a one-time deliverable.                                                                            | Post-Project Analytics is an ongoing capability for completed projects during the contract term- either should be expected to run on demand on every project completion. It should be inherent functionality of the solution.                                                                                                                                                           |
| 137. | SOW | M. Timeline & Mobilization              | Given the compressed 1.5-month Discovery and Design phase, please confirm the composition and decision-making authority of OIL's review/sign-off team at each of the four mandatory demonstration milestones described in Section 4, so approvals happen quickly enough to protect the overall 8-month schedule.                              | OIL will define the composition and decision-making authority of review/sign-off teams for each mandatory demonstration milestone during kickoff/governance setup, to support timely approvals within the 8-month implementation schedule.                                                                                                                                              |
| 138. | SOW |                                         | Please confirm whether the pre-Go-Live Security Testing ('basic vulnerability scanning, if agreed with OIL IT/IS') is distinct from the mandatory bi-annual CERT-In empanelled VAPT required during M&S, or whether the pre-Go-Live test is itself expected to be a full CERT-In VAPT engagement.                                             | Pre-Go-Live security testing shall be separate from the recurring bi-annual VAPT during M&S. It will cover security validation before production cutover, and if required by OIL IT/IS, shall include CERT-In empanelled VAPT before Go-Live. The 6-monthly CERT-In VAPT during M&S shall continue as a separate recurring compliance activity, with remediation support by the bidder. |
| 139. | BEC | Bid Evaluation Criteria<br>Page 2 of 18 | OIL is requested to consider accepting a Work Order that identifies an 'End Client', issued by a private company acting as the main contractor, together with a Completion Certificate issued by that contractor, as valid documentary evidence of experience, provided the End Client independently qualifies under this tender.             | Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria.                                                                                                                                                                                                                                                        |
| 140. | BEC | Bid Evaluation Criteria<br>Page 3 of 18 | OIL is requested to accept experience gained through sub-contracting towards the Technical Qualification Criteria, provided the work was executed for an end client meeting the eligible category under Clause 3.1, supported by proper documentary evidence such as the Work Order, Completion Certificate, and Client-certified Job Report. | Tender terms shall prevail.                                                                                                                                                                                                                                                                                                                                                             |
| 141. | BEC | Bid Evaluation Criteria<br>Page 3 of 18 | OIL is requested to consider treating work executed by an associate company, or a company under the same majority shareholder as the bidder, as valid experience under this clause, where the work was delivered to a                                                                                                                         | Tender terms shall prevail.                                                                                                                                                                                                                                                                                                                                                             |

## **ANNEXURE-I**

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|      |     |                                         | genuine third-party end client and is supported by proper documentary evidence.                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 142. | BEC | Bid Evaluation Criteria<br>Page 4 of 18 | OIL is requested to permit consortium bidding, where a lead bidder is supported by a named technical partner under a binding agreement, as an alternative to the equity-based Joint Venture route. A project of this nature requires two distinct competencies, deep AI/ML expertise and strong domain/engineering experience, that are rarely found together in one organization today.                           | Not allowed. Tender terms shall prevail.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 143. | SOW | Scope of Work<br>Page 4 of 26           | OIL is requested to provide API or connector-level access to these engineering applications to the selected bidder at no additional cost, and to bear any additional OEM licensing cost needed to enable this integration.                                                                                                                                                                                         | OIL will provide available access, credentials, API access, database exports or file-sharing access for in-scope systems. However, the bidder shall be solely responsible for arranging any adapters, connectors, tools or add-ons required for integration. Therefore, any additional OEM connector/API licensing or integration-enablement cost should be factored by the bidder in its commercial offer.                                                                                                                       |
| 144. | SOW | Scope of Work<br>Page 5 of 26           | OIL is requested to share an approximate baseline, such as the expected number of years of historical data and past projects, to be used for AI model training, to allow bidders to estimate the cost accurately at the bidding stage.                                                                                                                                                                             | 5 yrs, remaining to be provided during discovery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 145. | SOW | Scope of Work<br>Page 22 of 26          | OIL is requested to accept Indian security certifications, such as CERT-In empanelment, MeitY STQC, or ISO 27001, as equivalent to NIST SP 800-53 and IEC 62443 for this purpose, as these are recognized Indian standards covering similar security domains such as access control, risk management, incident response, and system integrity, and are widely held by India-based cloud and data centre providers. | Shall be revised through issuance of corrigendum/amendment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 146. | SOW | Scope of Work<br>Page 22 of 26          | OIL is requested to specify a defined turnaround time for granting such approval, and to exclude any resulting delay from the Contractor's uptime SLA calculation.                                                                                                                                                                                                                                                 | OIL shall endeavour to provide approvals within a reasonable time after receipt of complete documentation/information from the bidder. Any delay solely attributable to pending OIL approval, where the bidder has submitted all required inputs and has no pending action, shall be suitably considered and shall not be counted as bidder-attributable SLA non-compliance. However, the bidder must maintain proper records of submission date, pending approvals, reminders, dependencies, and impact to claim such exclusion. |
| 147. | BEC | Bid Evaluation Criteria<br>Page 6 of 18 | OIL is requested to consider evaluating the eligibility criteria based on the last three (03)                                                                                                                                                                                                                                                                                                                      | Original BEC clause shall prevail.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## **ANNEXURE-I**

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|      |     |                                                | completed Assessment Years. Clause 4.1 may accordingly be read as:<br><br>'Annual Financial Turnover from Operations of the Bidder during any of the last three (03) completed Financial Year/Assessment Years preceding the Original Bid Closing date must be at least Rs. 10,15,65,000.00. |                                                                                                                                                                                                                                                                                                                                   |
| 148. | SCC | SCC – Service Level Agreement<br>Page 21 of 24 | OIL is requested to ensure that any future revision of SLA parameters applies only prospectively, to future quarters, with the Contractor given an opportunity to review the revised parameters before they take effect.                                                                     | Any review/revision of SLA parameters during the contract period shall be undertaken through mutual discussion and shall apply prospectively from the agreed effective date. SLA changes shall not be applied retrospectively to already completed measurement periods/quarters.                                                  |
| 149. | SCC | SCC – Service Level Agreement<br>Page 22 of 24 | OIL is requested to define how 'accuracy' will be measured, including the test dataset and evaluation period to be used, and to clarify how the '95% of project planning tools' integration requirement relates to the accuracy tiers in the penalty table.                                  | Accuracy methodology to be defined during design phase. The requirement relating to integration with 95% of project planning tools shall be treated separately from AI/ML prediction accuracy. This would be a mandate to have at least 95% integration percentage with tools post which SLAs on model accuracy would be imposed. |
| 150. | SOW | Annexures<br>Page 6 of 93                      | OIL is requested to specify the maximum permissible age of notarization for the Power of Attorney and other undertakings to be submitted with the bid, so that bidders can arrange notarization within the applicable time window                                                            | No specific maximum age of notarization has been prescribed in the tender for the Power of Attorney or other undertakings. Accordingly, documents notarized prior to the bid submission date shall be acceptable.                                                                                                                 |

## **ANNEXURE-I**

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| 151. | BEC | BEC Bid evaluation criteria:<br>Clause<br>3.0 Technical Evaluation Criteria | <p>We kindly request OIL to consider the following provision in the BEC:<br/>         “The Bidder or its OSM/OEM (themselves or through reseller(s)) must have successfully executed/completed at least one (1) number of the following solutions during the last seven (7) years, reckoned from the Original Bid Closing Date, for asset-intensive projects in Oil &amp; Gas, Power &amp; Utilities, Manufacturing, Metals &amp; Mining, Infrastructure &amp; Transportation, IT, Automotive, Chemicals, Electronics, or similar industries.”<br/>         OR<br/>         b) AI-enabled project controls solutions comprising predictive schedule analysis, cost forecasting, risk prediction, portfolio monitoring and decision-support capabilities. Additionally, the requisite experience of implemented AI Driven solution under<br/>         Clause Nos. 3.1 a) or b) above, must include integration with at least 01 Enterprise Project Planning or ERP system, such as Primavera P6/Microsoft Project/SAP. This provision would enable wider participation while ensuring that the proposed solution is supported by the proven implementation experience of the OEM/OSM. Restricting the experience requirement only to the bidder may unnecessarily limit competition, despite the OEM/OSM having the requisite experience. Similar provisions are already included in OIL tenders<br/>         GEM/2022/B/1866020, &amp;<br/>         GEM/2026/B/7585219, where OEM/OSM experience is accepted for meeting the BEC. We therefore request OIL to incorporate a similar provision in the present tender, ensuring wider competition without compromising the required technical experience</p> | BEC clause shall prevail. |
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## ANNEXURE-I

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| 152. | BEC | BEC Bid evaluation criteria:<br>Clause<br>3.0 Technical Evaluation Criteria                                            | <p>We kindly request OIL to consider the following:</p> <ol style="list-style-type: none"> <li>Whether a redacted invoice along with payment receipt proof may be submitted in place of the Certificate of Payment (COP), wherever applicable.</li> <li>Whether client testimonial/confirmation received through email correspondence (including email screenshots) may be accepted in place of the Client-certified Job Report, provided it clearly mentions: <ul style="list-style-type: none"> <li>o Work Order/Contract No.</li> <li>o Nature/description of work executed</li> <li>o Contract period and date of completion</li> </ul> </li> </ol> <p>The above alternatives would provide equivalent documentary evidence of successful execution and completion. Further, many organisations do not have a standard practice of issuing separate Client-certified Job Reports to vendors, and obtaining such documents specifically for tender submission can be time-consuming and may delay bid preparation.</p> <p>We therefore request OIL to kindly permit the above documents as acceptable alternatives, wherever the required details can be duly established, thereby facilitating wider participation without compromising the verification of past experience.</p> | Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria. |
| 153. | SOW | SECTION-III: SOW<br>SCOPE OF WORK/TERMS OF<br>REFERENCE/TECHNICALSPECI<br>FICATIONS: Clause 3. Business<br>Requirement | <p>As per the clause, the solution shall support ingestion of historical data. However, the volume/size of historical data to be ingested has not been specified in the SOW. We therefore request OIL to kindly provide the estimated size/volume of</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ~12 GB. Actuals to be provided during discovery phase.                                                                           |

## ANNEXURE-I

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|      |     |                                                                                                                                                       | historical data, as this information is essential for accurately estimating the required cloud storage capacity and associated costs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                        |
| 154. | SOW | SECTION-III: SOW<br>SCOPE OF WORK/TERMS OF<br>REFERENCE/TECHNICALSPECI<br>FICATIONS: Clause 3. Business<br>Requirement                                | <p>Query: As per the relevant clause, the SOW specifies deployment of various manpower resources with prescribed qualifications and experience on an FTE basis. We request OIL to clarify whether these resources are required to be physically deployed at site throughout the implementation period, or whether a hybrid/remote deployment model with on-site presence as required would be acceptable.</p> <p>Recommendation: If on-site deployment is mandatory, we request OIL to consider an on-call/on-site model supported by remote assistance, instead of full-time physical deployment throughout the implementation phase.</p> <p>Since the proposed solution is cloud-based, a significant portion of the implementation activities can be performed remotely. Full-time on-site deployment may therefore add substantially to project costs without corresponding value. We request OIL to kindly consider an as-required on-site deployment model to optimise project costs while ensuring adequate implementation support.</p> | On-site Full-time presence is mandatory during implementation.                                                                                         |
| 155. | SOW | SECTION-III: SOW<br>SCOPE OF WORK/TERMS OF<br>REFERENCE/TECHNICALSPECI<br>FICATIONS: Clause<br>5. MAINTENANCE & SUPPORT<br>(M&S) – Terms & Conditions | We understand that certain activities, particularly new workflows, additional integrations, addition of new data sources, UI modifications and feature enhancements, may constitute changes/enhancements beyond routine maintenance and support and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Any changes that require quantum work would be taken on a case-by-case basis during project implementation and final approving authority would be OIL. |

## ANNEXURE-I

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|      |     |                                                                                                     | may involve additional effort and cost. We therefore request OIL to kindly clarify that such activities, as mutually agreed between OIL and the successful bidder, may be treated as additional scope/change requests and taken up separately with associated commercial implications. This will ensure clarity on the M&S scope while providing flexibility to accommodate future requirements based on mutual agreement between both parties.                                     |                                                                           |
| 156. | SOW | SECTION-III: SOW SCOPE OF WORK/TERMS OF REFERENCE/TECHNICAL SPECIFICATIONS: 3 BUSINESS REQUIREMENTS | Based on our experience in executing projects of similar scale and complexity, we believe that the stipulated implementation timeline is quite challenging. Considering the effort required for custom integrations, AI capability development, testing, and user acceptance, we kindly request OIL to consider extending the implementation timeline from 8 months to 12 months.                                                                                                   | Tender terms shall prevail.                                               |
| 157. | SOW | SECTION-II: SCC SPECIAL CONDITIONS OF CONTRACT (SCC): Clause 3.0: Special Terms and Condition       | To give OIL access to the best available technical talent — including specialists who may have recently joined the Bidder/Contractor/OEM but bring deep relevant expertise — we request that the payroll condition be extended to include personnel on the Bidder's/Contractor's/OEM's payroll, irrespective of tenure. This widens the resource pool available to OIL without compromising accountability, since the personnel remain formally employed by the contracting entity. | Bidder proposition accepted, resources shall be on payroll of the Bidder. |
| 158. | SOW | SECTION-II: SCC SPECIAL CONDITIONS OF CONTRACT                                                      | Query: The SOW specifies tiered accuracy SLAs for the AI-driven project performance                                                                                                                                                                                                                                                                                                                                                                                                 | This will be discussed and aligned during project implementation.         |

## **ANNEXURE-I**

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|      |     | (SCC): Clause 4.0: Service Level Agreement | <p>monitoring solution, with penalties linked to achieving 90%, 85% and 80% accuracy levels. We kindly request OIL to provide the baseline/reference dataset, accuracy calculation methodology and evaluation matrix/parameters against which the stipulated accuracy levels will be measured. As AI model performance is dependent on the nature and characteristics of the project data and use cases, establishing a mutually agreed baseline and measurement methodology would be essential for objective and consistent assessment of the solution performance. We therefore request OIL to kindly provide the baseline and detailed accuracy assessment matrix, and consider finalising the applicable accuracy SLA based on the agreed methodology and validation during implementation. Further, to ensure the penalty structure does not penalize normal model learning-curve variance before the solution has had adequate exposure to OIL's actual data, we also request that the penalty table be made applicable only from the end of a mutually agreed stabilization period post go-live.</p> |                             |
| 159. | BEC | PART II 'INFRASTRUCTURE'                   | <p>Query: As per the Price Format, Line Item Nos. 190 (Software Licensing Cost) and 200 (Cloud Subscription Cost) are payable for five (5) years only. However, we understand that the successful bidder will be required to provision and utilise the software licenses and cloud infrastructure from the commencement of the implementation phase itself, including for activities such as historical data ingestion, system integration and configuration. Accordingly, we request OIL to kindly consider payment for Line Item Nos. 190 and 200 for the complete period of utilisation, i.e. the 5-year contract period + implementation period + 3-month hypercare period. This would ensure</p>                                                                                                                                                                                                                                                                                                                                                                                                       | Tender terms shall prevail. |

## **ANNEXURE-I**

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|      |     |                                                                                                     | that the costs associated with the software licenses and cloud infrastructure, which are required and utilised from the beginning of implementation, are appropriately accounted for in the commercial terms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| 160. | SCC | SECTION-II: SCC SPECIAL CONDITIONS OF CONTRACT (SCC): Clause 3.0: Special Terms and Condition       | Query: We note that the Price Format (Line Item 190) provides for software licensing cost on a SaaS basis for a period of five (5) years, separately from the M&S cost line item. In this context, we kindly request OIL to confirm whether a subscription/term-based license coterminous with the five-year period specified in the Price Format would be acceptable in lieu of a perpetual license. This would be consistent with the cloud/SaaS delivery model as well as the commercial structure already provided in the tender, wherein the software licensing and M&S costs are separately identified for the five-year period. We request OIL to kindly confirm the same to ensure alignment between the technical licensing requirement and the commercial provisions of the tender. | Price format and tender requirements to prevail.                                                                                    |
| 161. | SCC | SECTION-II: SCC SPECIAL CONDITIONS OF CONTRACT (SCC): Clause 4.0: Service Level Agreement           | We understand that the tender does not specify any particular requirement regarding the deployment of manpower, except for the requirement to constitute an Implementation Team comprising a Project Manager (PM), Architect, AI/ML Lead, Data Engineer/Architect, BI Lead, and Engineers. Therefore, the clause is not applicable, please clarify if our understanding are correct.                                                                                                                                                                                                                                                                                                                                                                                                          | M&S Manpower requirement is availability of 2 FTEs, please refer amendment.                                                         |
| 162. | SOW | SECTION-III: SOW SCOPE OF WORK/TERMS OF REFERENCE/TECHNICAL SPECIFICATIONS: 3 BUSINESS REQUIREMENTS | Query: Please clarify whether the proposed solution may be deployed within OIL's existing Azure Landing Zone/tenant, or whether the bidder is required to provision and manage a separate MeitY-empanelled cloud environment for the contract period. Recommendation: We recommend permitting deployment within OIL's existing Azure environment, wherever technically feasible. This would provide a vendor-neutral and level playing field,                                                                                                                                                                                                                                                                                                                                                 | Bidder is free to provide suitable MeitY-empanelled cloud SaaS based solution to be routed through OIL's Azure secure landing zone. |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                                                                                                                                                                                                                         | allowing bidders to compete based on their solution capabilities and implementation expertise rather than their ability to secure cloud infrastructure pricing. This approach would also be beneficial to OIL by providing direct control and transparency over cloud usage, security and costs, while enabling OIL to leverage its existing infrastructure and pay-as-you-go model, thereby avoiding duplication of cloud environments and associated overheads. We therefore request OIL to consider deployment within its existing Azure Landing Zone, which would encourage wider participation while providing OIL greater control and potential cost optimisation. |                                                                                                                                                                                                                                                                                                                                     |
| 163. | BEC | Extension of Bid closing date by 4 weeks                                                                                                                                                                                                                                                                                                                                | Considering that the pre-bid conference is scheduled for 12.08.2026 and that the addendum issued thereafter may have a material impact on the proposed technical solution, commercial offer, and compliance documentation, we kindly request OIL to consider extending the bid submission deadline i.e. 25.08.2026, by at least 15 days. This additional time would enable the bidders to adequately review and incorporate the final clarifications/addenda and submit a complete, compliant, and well considered bid.                                                                                                                                                  | It is being reviewed. Any extension in the Bid Closing Date (BCD), shall be intimated through issuance of an appropriate corrigendum.                                                                                                                                                                                               |
| 164. | BEC | Our organization is a registered MSME and possesses extensive experience in designing, developing, implementing, and supporting technology solutions across the Government, Private, and Banking sectors. While we may not have the exact "one similar project" experience as prescribed in the eligibility criteria, we have successfully executed AI-based enterprise |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Please note that the experience requirement shall be governed strictly by the terms and conditions of the tender. You are requested to refer to the Bid Evaluation Criteria (BEC) of the tender for the applicable experience criteria and the provisions regarding Purchase Preference for MSE bidders, and be guided accordingly. |

## **ANNEXURE-I**

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|      |     | software solutions of comparable nature and complexity.                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 165. | BEC | Bidders recognised as 'Start-Ups' by DPIIT are exempted from complying with the Annual Financial Turnover Criteria under BEC Clause No. 4.1, subject to submission of a valid DPIIT Start-up certificate. | It is requested that the above exemption from the Financial Qualification Criterion (Clause No. 4.1) presently extended to DPIIT-recognised Start-ups be suitably extended to bidders registered as Micro, Small & Medium Enterprises (MSME) under Udyam Registration as well, in line with the Public Procurement Policy for MSEs, 2012 and Government's thrust on promoting MSME participation in public procurement. Bidders claiming the exemption as MSME may be required to substantiate the same with a valid Udyam Registration Certificate as on the original bid closing date.                         | Not acceptable. Tender conditions shall prevail.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 166. | BEC | Experience criterion requires the Bidder to have executed an 'AI Driven Project Performance monitoring solution' or 'AI-enabled project controls solutions' (with AI/ML-based predictive analytics).      | AI-related terminology and market nomenclature have evolved considerably over the last 2 years, with several functionally equivalent project-controls/PPM solutions now being offered and marketed under the broader umbrella of 'Analytics'/'Predictive Analytics' rather than strictly as 'AI'. It is requested that the term 'AI' wherever it qualifies the experience criterion under Clause No. 3.1 (a) and (b) be revised to read 'AI/Analytics', so that bidders with functionally equivalent, analytics-driven Project Management solutions are not excluded merely on account of nomenclature/branding. | The terminology may be read in a functional context and OIL does not intend to restrict bidders merely on account of nomenclature such as "AI", "Analytics" or "Predictive Analytics". However, the submitted experience proof must clearly demonstrate alignment with the tender requirement, including project performance monitoring/project controls use cases, predictive or analytical capabilities, schedule/cost/risk monitoring, dashboards, alerts, and similar functionalities relevant to the scope. Mere use of generic analytics terminology, without evidence of comparable project-controls or PPM functionality, shall not be sufficient. Final acceptance shall be subject to OIL's evaluation of the submitted work order, completion certificate and scope documents against the BEC requirements. |
| 167. | BEC | Qualifying experience is restricted to asset-intensive sectors (Oil & Gas/Power & Utilities/Manufacturing/Metals & Mining/Infrastructure & Transportation/IT/Automotive/C hemicals/Electronics).          | Within Oil & Gas, it could be in any domain upstream or downstream. Kindly confirm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Confirmed, Oil & Gas includes Upstream and Downstream.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 168. | BEC | Qualifying experience must additionally include integration with at least 1 (one) Enterprise Project Planning/ERP system 'such as Primavera P6/Microsoft Project/SAP'.                                    | Kindly confirm whether the list of Enterprise Project Planning/ERP systems (Primavera P6/MS Project/SAP) is illustrative or exhaustive. It is requested to clarify that integration experience with other comparable, industry-recognised EPM/PPM/ERP platforms                                                                                                                                                                                                                                                                                                                                                  | Bidder to be guided by the BEC/BRC clause and submit experience proofs accordingly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                                             | (e.g., Oracle Primavera Cloud, Oracle Unifier, Deltek, Planview, Oracle EBS/Fusion) be also accepted as qualifying experience.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                            |
| 169. | SOW | Bidder must confirm mobilization within 30 (Thirty) days from the date of issuance of LOA, failing which the offer will be summarily rejected.                                              | Considering the scope involves design, supply, implementation, integration with existing ERP/EPM systems and enterprise-wide rollout of an AI/Analytics-based solution, 30 days may not be adequate for meaningful mobilization (team deployment, infrastructure/licensing tie-ups, kick-off). It is requested to consider extending the mobilization period to 45/60 days, or clarify that 'mobilization' refers only to initial team/kick-off deployment and not full solution go-live. | The 30-day mobilization period shall be retained as per tender.                                                                                                                                                                                                                                                                                                                                            |
| 170. | SOW | Bidder must maintain Local Content (LC) of 20% or more, in line with Public Procurement (Preference to Make in India) Order, 2017.                                                          | Since the offered solution is a software/AI-based service that may rely on global cloud/hosting and platform components, it is requested to clarify the methodology for computing Local Content for a software-cum-services offering (e.g., basis of India-based development, implementation, support manhours vis-a-vis third-party licensed components), so that bidders can accurately determine and certify the applicable LC percentage.                                             | Refer to the applicable provisions of the Public Procurement (Preference to Make in India) Order, 2017, as amended from time to time.                                                                                                                                                                                                                                                                      |
| 171. | BEC | 'Work executed through sub-contracting shall not be considered for evaluation.'                                                                                                             | Kindly clarify whether this exclusion applies to the use of authorised OEM/technology/cloud-hosting partners engaged by the Bidder for specific technical components (e.g., cloud infrastructure, third-party AI/ML platform licensing) while the Bidder remains the prime solution integrator and single point of responsibility, or whether it is restricted to subcontracting of the core scope of work itself.                                                                        | The restriction on subcontracting shall not prevent the bidder from using authorized OEM, technology, cloud-hosting, SaaS, provided the bidder remains the prime contractor, single point of responsibility, and accountable for delivery, SLA, security, integration, support, and contractual compliance. Subcontracting or outsourcing of the core scope without OIL approval shall not be permitted.   |
| 172. | SOW | 'AI driven project performance monitoring solution shall meet at least 90% accuracy with 90% confidence interval (solution shall get integrated with 95% of the project planning tools with | Kindly clarify: (i) the precise metric and methodology by which 'accuracy' will be measured for each model type (e.g., MAPE/RMSE for schedule/cost forecasting vs. classification accuracy for high-risk task identification), since a single 90% accuracy                                                                                                                                                                                                                                | Suitable "accuracy" measurement methodology would be aligned and mutually discussed between bidder and OIL during implementation phase and will be confirmed by OIL. The phrase "95% of project planning tools with 90% accuracy" shall be interpreted separately from model accuracy and shall relate to integration completeness/data synchronization, subject to final design sign-off. The tool should |

## **ANNEXURE-I**

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|      |     | accuracy of 90%)', with tiered penalty up to 10% of Total Implementation Cost below 85%, and 'Not acceptable' below 80%.                                                                                                                                                                   | figure cannot uniformly apply across all AI/ML use cases listed in Clause 3.3.1 (SOW); and (ii) the intended meaning of 'integrated with 95% of the project planning tools with accuracy of 90%', as the phrase is ambiguous. It is also requested to clarify the process/cure period, if any, in case accuracy remains below 80% despite best-effort remediation, before the 'Not acceptable' provision is invoked.                                                                                                                                                                | have an accuracy of >80% for go-live and implementation plan to succeed and be acceptable.                                                                                                                                                         |
| 173. | SOW | 'Minimum historical data period (to be checked by vendor & confirmed by OIL during discovery)' and 'Minimum number of completed projects of varying complexity' are left undefined at RFP stage.                                                                                           | Since historical data volume and depth directly impact AI/ML model design, effort estimation and pricing, it is requested that OIL indicate an approximate/illustrative historical data period and number of completed projects available for model training at this stage, to enable bidders to size and cost the Solution accurately. Alternatively, kindly confirm that any material change in data availability identified during the Discovery phase (Clause 3.7) will be treated as a change in scope eligible for commercial adjustment.                                     | ~12 GB. Actuals to be provided during discovery phase.                                                                                                                                                                                             |
| 174. | SOW | Solution must 'support deployment on OIL's preferred infrastructure with all data stored within India', while also permitting 'Vendor Cloud Infrastructure (SaaS Based Solution)' on Azure/AWS/GCP/Vendor Private Cloud, with mandatory routing through OIL's existing Azure Landing Zone. | Kindly clarify whether: (i) hosting on any MeitY-empanelled public cloud (AWS/GCP) with data centres located in India is acceptable, or whether OIL's own infrastructure/Azure Landing Zone is mandatory; and (ii) where a non-Azure cloud (e.g., AWS/GCP) is proposed, the additional network/security components (NGFW/VPN gateway, identity federation) required to route traffic through OIL's Azure Landing Zone should be quantified/costed by the bidder as per Clause 3.3.1, and whether OIL can share indicative bandwidth/latency requirements for the same at RFP stage. | i> Hosting on a MeitY-empanelled public cloud with India data-centre residency may be proposed.<br>ii> Yes.                                                                                                                                        |
| 175. | SOW | 'Vendor shall integrate the solution with the Command-and-Control Center (CCC) for visualization of project dashboard, reporting, analytics layer for project timeline forecasting etc.'                                                                                                   | It is requested that OIL share the technical specifications, integration protocol/APIs, and ownership details of the existing Command-and-Control Center (CCC) platform, so that bidders can accurately assess the integration effort and include it in their technical and commercial proposals.                                                                                                                                                                                                                                                                                   | For bid purposes, bidders may assume standards-based integration through secure dashboard embedding, URLs, APIs, or data feeds. Final CCC integration design, protocol, refresh cadence and display format shall be agreed during design with OIL. |

## **ANNEXURE-I**

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| 176. | SOW | Performance/scalability NFRs reference 'agreed thresholds', 'expected concurrent users' and 'agreed RPO/RTO' without specifying values at RFP stage.                                                                                              | For accurate sizing and cost estimation of the SaaS platform/licensing (Clause 3.3, 'Subscription Licensing'), it is requested that OIL specify indicative values for: (i) number of named/concurrent users; (ii) number of projects and WBS/activities expected in scope at Go-Live and over the M&S period; (iii) target RPO/RTO; and (iv) dashboard/report refresh frequency expectations.                                                                                                                                                                                                          | i> 50 users, 30% concurrent, rest details will be provided during discovery.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 177. | SOW | Solution/vendor cloud platform expected to have 'Compliance certifications (ISO 27001, SOC 2, GDPR, etc.)'.                                                                                                                                       | Kindly clarify whether the stated compliance certifications (ISO 27001, SOC 2, GDPR) are mandatory eligibility/BEC requirements to be held by the bidder or its proposed cloud platform at the time of bidding, or whether these are desirable technical attributes that may be demonstrated/achieved during the implementation phase, given GDPR is generally not applicable to a solution hosted and operated within India.                                                                                                                                                                          | Mandatory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 178. | SOW | 'OIL shall have perpetual, irrevocable and royalty-free rights to use, modify, enhance and extend the Solution and all artefacts developed under this contract' along with complete handover of source code, AI/ML pipelines and model artefacts. | It is requested to clarify the treatment of the Bidder's pre-existing/background IP (e.g., underlying proprietary AI/ML platform, reusable frameworks or COTS components not developed specifically for this contract) which may be used to deliver the Solution. Kindly confirm that ownership/usage rights under this clause are limited to OIL-specific configurations, customizations, trained models and artefacts developed under this contract, and do not extend to the Bidder's underlying platform IP, which may continue to be licensed (not transferred) to OIL for the contract duration. | OIL's ownership/usage rights shall apply to OIL-specific deliverables, configurations, customizations, data models, trained models, scripts, reports, dashboards, integrations and artefacts developed under this contract. Pre-existing bidder IP, proprietary platforms, reusable frameworks, accelerators, COTS products or OEM software shall remain the property of the bidder/OEM, with OIL receiving the necessary license/usage rights for operating the solution as per contract terms. |
| 179. | SOW | Project Manager role requires '8+ years with 3+ years leading analytics/AI projects and 1+ years in oil & gas/capital projects'; similar 'AI' qualifiers appear for Solution Architect, AI/ML Lead and other key roles.                           | In line with the request at Sl. No. 2 above regarding revision of 'AI' to 'AI/Analytics' in the experience criteria, it is requested that the same terminology update be carried through consistently to the Key Personnel experience requirements under Clause 3.6. Further, kindly confirm whether the '1+ years in oil & gas/capital projects' requirement for the Project                                                                                                                                                                                                                          | Tender clauses shall prevail.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                                                                                                                                                                               | Manager (and similar sector-specific experience for other roles) is mandatory or preferred, given the solution is largely sector-agnostic.                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                   |
| 180. | SOW | M&S period of 5 years includes 'software upgrades/updates', 'bug fixes' and 'enhancements'; a Note states 'During 5 years of M&S any enhancement of software in later phase will be bidder's responsibility.'                                                                                                                 | It is requested that OIL clearly define the scope boundary between 'Maintenance & Support' (bug-fixes, minor changes, patches within the existing scope) and 'Enhancement'/new feature development, and confirm whether enhancements beyond the originally contracted scope of work will be commercially compensated through a Change Request mechanism, or are deemed to be included within the fixed M&S price for the full 5-year period.                                                                 | Any changes that require quantum work would be taken on a case-by-case basis during project implementation and final approving authority would be OIL.                                                                                                                                                                                                            |
| 181. | SOW | 'Uptime SLA of the solution is 99.95%.'                                                                                                                                                                                                                                                                                       | Kindly clarify whether the 99.95% uptime SLA applies uniformly to all components of the Solution (data ingestion pipelines, AI/ML execution layer, dashboards/reports, APIs, as defined in Clause 4.1), or whether differentiated uptime targets may be proposed for components of differing criticality (e.g., batch/near-realtime data pipelines vis-a-vis interactive dashboards), consistent with industry SaaS SLA practice.                                                                            | Applies to overall solution.                                                                                                                                                                                                                                                                                                                                      |
| 182. | SOW | Bidder to 'Execute formal Knowledge Transfer (KT) sessions ... 60 users (20 users X 3 batches per week) per year.'                                                                                                                                                                                                            | Kindly clarify whether this training volume (60 users/year) is to be delivered as a one-time/recurring annual requirement throughout the 5-year M&S period, and whether the venue/mode (onsite at Duliajan/PAN-India locations vs. virtual) and associated logistics costs are to be quoted separately or are deemed included in the M&S pricing.                                                                                                                                                            | Onsite at Duliajan, training is recurring annually during contract period.                                                                                                                                                                                                                                                                                        |
| 183. | SOW | OIL's scope is limited to providing connectivity, access, credentials and historical datasets; Bidder is responsible for integrating with all listed engineering/ERP/GIS systems 'across OIL sites/assets PAN-India' and 'solely responsible for arranging Adapters, connectors, tools, or add-ons required for integration.' | Considering the number and diversity of source systems (Primavera, ERP, Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite, GIS, DMS, EAM/CMMS, HRMS, Risk Registers), it is requested that OIL confirm/share the list of systems with their existing API/integration capability (or absence thereof), and clarify the timeline by which OIL will make the required access/credentials/data available, since delays on this account directly impact the Bidder's ability to meet the T1+1.5 | Primavera is currently in use and Aspen HYSYS, Pipesim, OLGA, Flaresim, Fathom, HTRI, CAESAR, PVElite, ERP and GIS as integration target. During bid, bidders must inventory relevant systems, versions and integration mechanisms. Exact live/planned tool status will be identified during discovery with OIL. All components should be considered during bids. |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                                                                                        | to T1+7 month implementation milestones under Clause 3.7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 184. | BEC | "...the requisite experience of implemented AI Driven solution under Clause Nos. 3.1 a) or b) above, must include integration with at least 01 Enterprise Project Planning or ERP system, such as Primavera P6/Microsoft Project/SAP." | Please confirm whether the single reference project used to meet BEC Clause 3.1 must demonstrate BOTH the AI/predictive-analytics capability (3.1 a/b) AND the ERP/EPPM integration (Primavera P6/MS Project/SAP) within the same contract, or whether two separate completed reference contracts (one for AI capability, one for ERP/EPPM integration) can jointly satisfy this clause.                                                                                                                                                                                                                                   | BEC clause shall prevail.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 185. | SCC | "GCC Clause No. 39.0 Subcontracting/Assignment: Not Allowed"                                                                                                                                                                           | Given the SOW mandates integration with 8 specialised third-party engineering simulation tools (Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite) that typically require OEM-specific technical expertise, and subcontracting is explicitly "Not Allowed" per GCC Clause 39.0/SCC 1.16, please clarify:<br>(a) Can the bidder engage OEM-authorized technical partners/system integrators for these specific tool integrations without this being treated as prohibited subcontracting?<br>(b) If not, is the bidder expected to independently build all 8 integrations without any OEM support access? | To be undertaken in alignment and with confirmation of OIL during discovery phase.                                                                                                                                                                                                                                                                                                                                                                                    |
| 186. | SCC | "...liquidated damages @0.5% of the total Implementation Cost, per week or part thereof of delay subject to maximum ceiling of 7.5%..."                                                                                                | Liquidated Damages (LD) are levied at 0.5% per week of the total Implementation Cost for delay in Go-Live, up to a maximum of 7.5%. Please clarify:<br>(a) If delay is caused by OIL (e.g., delayed system access, delayed approval of design documents, delayed UAT resources), will the LD clock be paused for the duration of OIL-caused delay?<br>(b) Is there a formal dispute resolution mechanism if the bidder contests the root cause of a delay?                                                                                                                                                                 | LD shall apply only for delays attributable to the bidder. If delay is due to OIL-side dependencies and beyond the control of bidder the corresponding period shall be suitably excluded from LD calculation, subject to documentary evidence and approval through project governance. Any dispute regarding delay attribution shall be handled through the contractual governance/dispute resolution mechanism to be aligned with OIL during project implementation. |
| 187. | SCC | SCC 1.13: "...maximum ceiling of 7.5% of the total Implementation Cost." SLA Item 6: "The upper limit of penalty would be capped at 7.5% of the contract value for                                                                     | Please confirm the complete penalty-cap architecture across the contract lifecycle:<br>(a) Do the pre-Go-Live LD cap (7.5% of Implementation Cost) and the post-Go-Live quarterly SLA penalty cap (7.5% of quarterly                                                                                                                                                                                                                                                                                                                                                                                                       | Tender to prevail. Pre-Go-Live LD and post-Go-Live SLA penalties shall be treated as separate mechanisms applicable to different phases. Manpower non-deployment penalty during M&S should be treated within the applicable quarterly penalty framework and forms a subset of the 7.5% of quarterly M&S charges                                                                                                                                                       |

## ANNEXURE-I

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|      |     | each quarter." SLA Note (iii): manpower non-deployment penalty "...subject to a maximum of 7.5% of the quarterly M&S charges..."                                                   | contract value) operate as fully independent pools with no set-off between them?<br>(b) Within the M&S phase, is the manpower non-deployment penalty (7.5% of quarterly M&S charges) a sub-limit within the same 7.5% quarterly SLA cap, or a separate, additional pool?<br>(c) Is there any overall/lifetime cap on total penalties recoverable across the 68-month contract?                                       | Overall capping is provided separately against both pre-go live and post go-live penalties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 188. | SOW | "The ownership of the data generated upon usage of the system, at any point of time during the contract or expiry or termination of the contract, shall rest absolutely with OIL." | Please confirm that while OIL owns all output/generated data, the bidder retains ownership of its underlying proprietary AI/ML platform, algorithms, source-code framework and other reusable background IP (excluding OIL-specific trained model weights/configurations), consistent with standard software licensing practice, and that this clause is not intended to transfer the bidder's background IP to OIL. | OIL shall own OIL-specific data, outputs, configurations, customizations, trained models, dashboards, reports, integrations, scripts and artefacts developed specifically under this contract. However, the bidder's pre-existing proprietary AI/ML platform, algorithms, reusable frameworks, accelerators, COTS components and background IP shall remain bidder/OEM-owned. OIL shall receive necessary usage/license rights to operate the solution during/after the contract as applicable, but ownership of bidder background IP shall not transfer to OIL. |
| 189. | SOW | "Completion of the Exit Management process is a precondition for release of the last two quarterly payments. Non-completion will result in withholding of these payments."         | Please clarify the timeline within which the Exit Management/Transition-Out process is expected to be completed after contract expiry, confirm this applies only at natural contract closure (end of the 68-month term) and not upon interim renewals/extensions, and confirm exit-management effort is to be quoted as a distinct line item or is deemed included in existing M&S pricing.                          | Exit management to be completed within the last 2 months (60 days) of M&S period, pricing of which is to be included in the existing M&S pricing.                                                                                                                                                                                                                                                                                                                                                                                                                |
| 190. | SOW | "...as and when procured...such as Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite..."                                                                         | Please confirm:<br>(a) Which of these engineering tools are currently licensed and deployed by OIL, and which are only planned for future procurement?<br>(b) For tools not yet procured, will the integration be handled as a separate change order/variation, or is the bidder expected to build and price it now?                                                                                                 | Primavera is currently in use and Aspen HYSYS, Pipesim, OLGA, Flaresim, Fathom, HTRI, CAESAR, PVElite, ERP and GIS as integration target. During bid, bidders must inventory relevant systems, versions and integration mechanisms. Exact live/planned tool status will be identified during discovery with OIL. All components should be considered during bids.<br><br>Any major integration would be taken on a case-by-case basis as agreed by OIL during implementation.                                                                                    |
| 191. | SOW | "Minimum historical data period (to be checked by vendor & confirmed by OIL during discovery)."/ "Minimum number of                                                                | Please provide indicative details on:<br>(a) Approximate number of years of historical project data available in Primavera and ERP systems.                                                                                                                                                                                                                                                                          | 5 yrs; Indicative counts: active/planned projects: 40 nos. To be finalized during implementation phase.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## **ANNEXURE-I**

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|      |     | completed projects of varying complexity."                                                                                                                                                                                                 | (b) Approximate number of completed projects available for AI/ML model training.<br>(c) Quality and completeness of existing historical data (e.g., are all WBS levels, cost actuals, and progress updates consistently captured).                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                          |
| 192. | SOW | "Support for deployment on OIL's preferred infrastructure with all data stored within India." (read with "Vendor Cloud Infrastructure (SaaS Based Solution)" listed as an option)                                                          | Please clarify:<br>(a) Is OIL's preference for on-premise deployment, private cloud, or SaaS?<br>(b) If SaaS, can OIL confirm the preferred MeitY-empanelled cloud provider(s), or is the bidder free to select any MeitY-empanelled cloud?<br>(c) Does OIL have an existing on-premise data centre capable of hosting a dedicated solution if an on-premise model is proposed?                                                              | a>SaaS<br>b>bidder is free to select<br>c>Not required.                                                                                                                                                                                                                                                                  |
| 193. | SOW | "OIL has already setup a secure cloud landing zone in MS Azure...The bidder shall have to route all traffic initiated towards the proposed public cloud hosting relevant application through OIL's above-mentioned landing zone in Azure." | Please clarify:<br>(a) What are the current bandwidth and connectivity specifications of OIL's Azure landing zone?<br>(b) Is OIL open to a multi-cloud architecture where AI/ML workloads are hosted on a different MeitY-empanelled cloud (e.g., AWS India or GCP India) with connectivity routed through the Azure landing zone?<br>(c) Will OIL provide the Azure landing zone subscription/technical details during the discovery phase? | a> Will be provided during discovery<br>b>Yes OIL is open to a multi-cloud architecture where AI/ML workloads are hosted on a different MeitY-empanelled cloud (e.g., AWS India or GCP India) with connectivity routed through the Azure landing zone<br>c> Yes if required will be provided during the discovery phase. |
| 194. | SOW | "Vendor shall integrate the solution with the Command-and-Control Center (CCC) for visualization of project dashboard, reporting, analytics layer for project timeline forecasting etc."                                                   | Please clarify:<br>(a) Is the Command-and-Control Center (CCC) an existing, operational OIL system today, or a system under separate implementation/procurement?<br>(b) What are its integration interfaces/APIs/data-exchange protocols?<br>(c) Is this integration in scope for Go-Live, or can it be phased into a later milestone if the CCC is not yet available?                                                                       | a>It is a separate implementation<br>b>NA<br>c>The solution should be made ready to be integrated to CCC in case the solution not deployed until the Go-Live of AI-PPM solution.                                                                                                                                         |
| 195. | SOW | "...shall not overwrite or modify data in source systems unless explicitly approved in writing by OIL."                                                                                                                                    | Please clarify whether OIL will permit the Solution to write back any data (e.g., AI-generated risk scores, forecasts, or flags) to Primavera or ERP for use by planners/project                                                                                                                                                                                                                                                             | No write back of data is allowed; The solution shall be read-only with respect to source systems.                                                                                                                                                                                                                        |

## ANNEXURE-I

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|      |     |                                                                                                                                                                                                         | managers, or whether AI outputs must remain solely within the new Solution's data layer.                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 196. | SOW | SOR Item 190 – "Software licensing cost (For SaaS based solution) Per Year organisation wide for 5 years"                                                                                               | Please clarify:<br>(a) What is the approximate number of named/concurrent users across OIL for whom licenses are to be provisioned?<br>(b) What is the anticipated breakdown of user roles (senior management, project managers, planners, finance, IT administrators)?<br>(c) Are Development, UAT and Sandbox environments to be licensed separately, or included in the production subscription?                                                                    | a>50 users, 30% concurrent<br>b> to be provided during discovery phase<br>c>Dev, SIT/UAT, Sandbox and Production environments should be provisioned as required by the solution architecture. Licensing treatment for non-production environments should be clearly stated by the bidder and finalized during design.                                                                                                                        |
| 197. | SOW | "The Bidder shall, at a minimum, provide the following key roles..." (Project Manager, Solution Architect, AI/ML Lead, Data Engineering Lead, Data Architect, BI Lead, AI/ML Engineers, Data Engineers) | The GeM bid document's technical specification field states "Manpower Required: Hybrid," confirming a hybrid on-site/remote model is acceptable in principle. Please confirm this applies to all roles listed in SOW 3.6, and specify:<br>(a) the minimum on-site presence/cadence expected at OIL's Duliajan premises during the Implementation Phase for each role;<br>(b) the minimum FTE count and on-site presence expected from the bidder during the M&S phase. | a> for implementation until Go-live all manpower should be available on-site<br>b> M&S Period 2 FTEs required presence is onsite.                                                                                                                                                                                                                                                                                                            |
| 198. | SOW | "Execute formal Knowledge Transfer (KT) sessions...60 users (20 users X 3 batches per week) per year."                                                                                                  | This clause states "3 batches per week" whereas SOR Line Item 180 prices Training & KT as 3 sessions (Qty. 3) in total, not weekly. Please confirm the intended frequency, 3 batches per year (as reflected in SOR Line Item 180) or 3 batches per week as literally stated, as this materially affects the training-effort pricing. Also confirm whether training is to be delivered at OIL's Duliajan premises or virtually, and the expected user-role mix.         | Initial Training & KT under SOR Item 180 covers 3 batches/sessions during implementation timeline/phase. recurring annual training for 60 users is required during the 5-year M&S period, should be treated as an M&S obligation and factored into M&S pricing.                                                                                                                                                                              |
| 199. | SOW | "Uptime SLA of the solution is 99.95%." (no specific response-time/refresh-rate values defined)                                                                                                         | Please provide:<br>(a) target dashboard load time and filter response time under expected peak concurrent-user load;<br>(b) expected number of peak concurrent users during operations;<br>(c) daily data-ingestion volume (approximate                                                                                                                                                                                                                                | a>To be aligned and finalized during discovery phase with OIL's confirmation A tentative guideline given as:<br>These will be finalized during design. A tentative guideline given as: management summary dashboards should load within 5 seconds including detailed project drill-down views under normal load. Final thresholds to be agreed during design/performance test planning.<br>Filters to load results within 5 seconds maximum. |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                            | number of records/transactions per day from all source systems).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | b> 50 users, 30% concurrent<br>c> to be disclosed during discovery phase.                                                                                                                                                                                                                          |
| 200. | SOW | "AI driven project performance monitoring solution shall meet at least 90% accuracy with 90% confidence interval..."                                                       | The SLA requires the AI-driven solution to demonstrate ≥90% accuracy with 90% confidence interval at UAT (pre-Go-Live). Please clarify:<br>(a) How will "accuracy" be defined and measured, is it prediction accuracy of schedule delays, cost overruns, or a composite metric?<br>(b) What is the benchmark/baseline dataset on which accuracy will be tested, will OIL provide a labelled historical dataset for back-testing?<br>(c) What is the acceptable tolerance for predictions where root cause is attributable to OIL-side data quality issues? | The methodology and would be confirmed with OIL during implementation.                                                                                                                                                                                                                             |
| 201. | SOW | "...necessary VAPT to be conducted at regular intervals (6 months) mandatorily...through CERT-In empanelled auditors...fix issues raised by third-party security auditor." | VAPT is required once prior to Go-Live and every 6 months thereafter during M&S, mandatorily through CERT-In empanelled auditors. Please clarify: (a) Will OIL nominate the CERT-In empanelled auditor, or can the bidder engage one of their choice subject to OIL approval? (b) Is the cost of the CERT-In empanelled auditor to be borne by the bidder or OIL? (c) What is an acceptable remediation timeline for Critical and High vulnerabilities discovered in VAPT?                                                                                 | To be nominated and engaged by Bidder, Borne by Bidder<br><br>Suggested remediation timelines are: Critical vulnerabilities within 7 days or earlier based on severity, High vulnerabilities within 15 days, and Medium/Low as mutually agreed with OIL IT/IS, subject to risk and exploitability. |
| 202. | BOQ | "Engineering tools integration (HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite) – as applicable"                                                            | These are specialised simulation tools that typically do not have standard integration APIs. Please clarify:<br>(a) What format/frequency of data export is currently available from these tools (e.g., CSV export, XML, direct DB access)?<br>(b) Will OIL facilitate OEM support/access for these tools to enable API-level or file-based integration?<br>(c) How will "as applicable" be interpreted at the time of contracting, will a formal list of in-scope engineering tool integrations be defined and locked in the contract?                    | Will be provided during discovery.                                                                                                                                                                                                                                                                 |
| 203. | BOQ | "Document ingestion reports, (EPC/contractor reports,                                                                                                                      | Please clarify:<br>(a) Are these documents currently stored in a centralised Document Management System                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (a) Currently in e-mails/shared drivers.<br><br>(b) Roughly on an average 500 to 1500 nos. of documents per projects based on size                                                                                                                                                                 |

## **ANNEXURE-I**

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|      |     | hydrotest, machine reports) incl. OCR"                                                                                                                                                                                                                                                                                                                 | (DMS), or are they in shared drives/email attachments?<br>(b) What is the approximate volume of documents to be ingested historically (number of documents, average pages per document)?<br>(c) Are the documents in a structured format (PDFs with text layers), or are they scanned images requiring OCR? | and complexity of the project. No. of pages per document varies in the range 2 - 150 pages.<br>(c) Most of the documents are in a structured format. Approx. 15% documents per project may be requiring OCR. |
| 204. | BEC | A bidder not meeting Clause 3.1 on its own may bid only as a Joint Venture Company already "registered in India and incorporated under the Companies Act 1956/2013 or LLP Act 2008". Note (c) requires existing shareholding documents with the bid; Clause 4.3(iv) requires a Statutory Auditor's shareholding certificate not more than 30 days old. | We request OIL to permit bidding as an unincorporated Consortium/Teaming arrangement supported by a legally binding Consortium Agreement with joint and several liability, a nominated Lead Member, and an undertaking to incorporate the JV (or execute as a consortium) after issue of LOA.               | Not acceptable.                                                                                                                                                                                              |
| 205. | BEC | Where the bid qualifies on a JV partner's experience, all personnel in "Annexure – Identified Key Personnel" shall be from the Supporting Company for the entire duration of the contract.                                                                                                                                                             | Permit key personnel to be drawn from any JV/Consortium member or from the JV entity itself, provided each individual meets the qualification and experience criteria of SOW Clause 3.6.                                                                                                                    | Not acceptable. Tender conditions shall prevail.                                                                                                                                                             |
| 206. | BEC | A partner lending financial strength furnishes a Corporate Guarantee (PROFORMA-XXII). A partner lending technical strength must furnish an additional Performance Security equal to 50% of the PS, i.e. a further 2.5% of contract value.                                                                                                              | Extend the Corporate Guarantee option to the technical supporting partner, or reduce the additional Performance Security to a level aligned with the financial-support route.                                                                                                                               | This is a standard clause. Bidders are requested to be guided by the provisions of the tender clause.                                                                                                        |
| 207. | BEC | Experience may be met by a member holding at least 26% stake. Financial criteria may be met by a member holding more than 50% stake. Note (b) states that experience relied upon                                                                                                                                                                       | Confirm expressly that (a) different members may supply technical and financial strength respectively; (b) a 26%/74% shareholding split is acceptable where the 26% member meets Clause 3.1 and the 74% member meets Clauses 4.1 and 4.2; and (c) Note (b) does not operate to negate Clause 3.1.1(i)(B).   | Please be guided as per the stipulated clauses in the BEC of the tender.                                                                                                                                     |

## **ANNEXURE-I**

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|      |     | “through any other arrangement” shall not be considered.                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                  |
| 208. | BEC | Experience must be for asset-intensive projects in Oil & Gas/Power & Utilities/ Manufacturing/Metals & Mining/ Infrastructure & Transportation/IT/ Automotive/Chemicals/Electronics.                                                                                                                                                                                                     | Expressly include Government, e-Governance, Public Works and Urban Development/Urban Infrastructure projects; alternatively confirm that Public Works Department and urban infrastructure project-monitoring deployments fall within “Infrastructure & Transportation”.                                                                                                                                                                                                          | BEC clause shall prevail.                                                                                                        |
| 209. | BEC | (a) AI Driven Project Performance monitoring solution incorporating project schedule, cost, progress, resource and risk monitoring with AI/ML-based predictive analytics, forecasting and dashboarding. OR (b) AI-enabled project controls solutions comprising predictive schedule analysis, cost forecasting, risk prediction, portfolio monitoring and decision-support capabilities. | We request you to amend this clause as below for wider participation: (a) AI Driven Project Performance monitoring solution incorporating project schedule/cost/progress/resource and risk monitoring with AI/ML-based predictive analytics/ forecasting and dashboarding. OR (b) AI-enabled Process/Workflow System or project controls solutions comprising predictive schedule analysis/ cost forecasting/risk prediction/portfolio monitoring/decision-support capabilities. | BEC clause shall prevail.                                                                                                        |
| 210. | BEC | Requisite experience must include integration with at least one Enterprise Project Planning or ERP system, “such as Primavera P6/Microsoft Project/SAP”.                                                                                                                                                                                                                                 | Confirm that the named systems are illustrative and that integration with other enterprise EPP/ERP platforms — including Oracle Fusion, Oracle EBS, Microsoft Dynamics or a custom/in-house ERP — equally satisfies the criterion.                                                                                                                                                                                                                                               | BEC clause shall prevail.                                                                                                        |
| 211. | BEC | The bidder must have “successfully executed/completed” at least one qualifying solution; mere award of contract will not be counted.                                                                                                                                                                                                                                                     | Confirm that a contract under which implementation is complete and the solution is live in production qualifies, evidenced by a Go-Live/UAT Sign-off/Phase Completion Certificate, notwithstanding that the support or AMC term is ongoing.                                                                                                                                                                                                                                      | Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria. |
| 212. | BEC | Job Completion Certificate/Service Entry Sheet/Certificate of Payment issued by the client, supported by a client-certified job report showing work order no.,                                                                                                                                                                                                                           | Accept, as an alternative, a client-issued Satisfactory Performance Certificate, Go-Live Certificate or Phase Completion Certificate for deployments that are live but where the contract has not formally closed.                                                                                                                                                                                                                                                               | Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria. |

## **ANNEXURE-I**

|      |     | description of jobs and contract period with date of completion.                                                                                                                                                                                                                      |                                                                                                                                                                                                                                              |                                                                                                                                                                                                                             |
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| 213. | BEC | If OIL does not receive an affirmative response from the client within the stipulated time, the bidder's technical bid will be considered non-responsive.                                                                                                                             | Specify the stipulated time; and confirm that a bid will not be rejected where complete documentary evidence has been submitted and the client has simply not responded to OIL's verification request.                                       | Bidders shall be guided by the provisions of the tender document. In case of verification of credentials, OIL shall stipulate the requisite timeline for response in the verification request sent to the concerned client. |
| 214. | BEC | Work executed through "sub-contracting" shall not be considered for evaluation.                                                                                                                                                                                                       | Confirm whether work executed as an OEM's authorised implementation partner under a direct work order issued by the end client is treated as sub-contracting for this purpose.                                                               | BEC clause shall prevail.                                                                                                                                                                                                   |
| 215. | BEC | The bidder must maintain 20% or more local content; an undertaking (PROFORMA-XII) supported by a Statutory/Cost Auditor certificate is required at bid stage, and failure to maintain LC during execution permits invocation of Performance Security.                                 | Clarify the treatment of cloud infrastructure and software subscription/licence costs (Azure/AWS/ GCP) and of services rendered in India within the local content computation.                                                               | Refer to the applicable provisions of the Public Procurement (Preference to Make in India) Order, 2017, as amended from time to time.                                                                                       |
| 216. | BEC | The Company will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily. | We request OIL to consider adopting a QCBS (Quality and Cost Based Selection) methodology with a 70:30 weighting (Technical: Commercial) instead of awarding the contract solely on the lowest evaluated bid.                                | BEC clause shall prevail.                                                                                                                                                                                                   |
| 217. | SOW | The Project Manager must have 1+ years in oil & gas/capital projects. The Solution Architect is expected to have integration experience with HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite and GIS.                                                                   | Permit equivalent experience across the asset-intensive sectors already listed in BEC Clause 3.1; and confirm that the engineering tool list represents scope to be delivered rather than a pre-qualification requirement on individual CVs. | Tender terms shall prevail.                                                                                                                                                                                                 |
| 218. | BEC | The Bidder must have successfully executed/completed at least 01 (One) no. of the following solutions in the last Seven (07) years reckoned from                                                                                                                                      | We request that Bidders who have successfully designed and developed AI-based projects during the last seven (7) years for Corporate clients, either in India or abroad, shall be considered eligible under this criterion. Such             | BEC clause shall prevail.                                                                                                                                                                                                   |

## **ANNEXURE-I**

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|      |     | <p>the Original Bid Closing Date for asset-intensive projects (Oil &amp; Gas/Power &amp; Utilities/Manufacturing/Metals &amp; Mining/Infrastructure &amp; Transportation/IT/Automotive/Chemicals/Electronics):</p> <p>a) AI Driven Project Performance monitoring solution incorporating project schedule, cost, progress, resource and risk monitoring with AI/ML-based predictive analytics, forecasting and dashboarding.</p> <p>OR</p> <p>b) AI-enabled project controls solutions comprising predictive schedule analysis, cost forecasting, risk prediction, portfolio monitoring and decision-support capabilities</p> | <p>experience will be viewed favorably during the evaluation process, as it demonstrates proven capability in delivering AI-driven solutions and is intended to encourage broader participation from experienced organizations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                         |
| 219. | BEC | <p>(a) Contract document/Letter of Intent (LOI)/Letter of Award (LOA)/Work Order/Work Order/Service Order showing detailed scope of work AND</p> <p>(b) Job Completion Certificate (JCC) or Service Entry Sheet (SES) or Certificate of Payment (COP) issued by the Client and supported by Client's certified Job Report showing the following:</p> <p>(i) Work Order No./Contract No.,</p> <p>(ii) Nature/Number/Description of jobs done, and</p> <p>(iii) Contract period and date of completion</p> <p>(C) Only Letter of Intent (LOI)/Letter of Award (LOA) or</p>                                                      | <p>We request that Work Orders along with Payment Proofs/Certificate of Payment be considered as valid documentary evidence of experience. This will enable more eligible and experienced bidders to participate in the tender, encourage wider competition, and result in a more competitive bidding process, thereby helping the Purchaser obtain the best value and competitive price in We suggest that bidders be permitted to submit Work Orders along with Payment Proofs/Certificate of Payment as valid documentary evidence of experience. Acceptance of these documents will enable more eligible and experienced bidders to participate in the tender, encourage wider competition, and result in a more competitive bidding process, thereby helping the Purchaser obtain the best value and competitive pricing</p> | <p>Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria.</p> |

## **ANNEXURE-I**

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|      |     | Work Order(s)/Client's Feedback Form are not acceptable as evidence of experience                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 220. | SOW | Any public cloud used must be MeitY-empanelled, all data must reside in India, and all traffic to the cloud must be routed through OIL's existing Azure landing zone.                                                                                   | Please confirm whether the solution is to be hosted inside OIL's own Azure tenant and subscription, or whether it may be hosted in a MeitY-empanelled subscription held by the bidder or its OEM and connected to OIL's Azure landing zone.                                                                                                                                                                                                             | Bidder is free to provide suitable MeitY-empanelled cloud SaaS based solution to be routed through OIL's Azure secure landing zone.                                                                                                                                                                                                                                                                                                                                                                          |
| 221. | SOW | The bidder must hand over complete source code, ETL jobs, ML pipelines, model artefacts and CI/CD definitions, with perpetual royalty-free rights for OIL to modify and extend, while SOR item 190 separately prices a five-year software subscription. | Please confirm that the source code and IP handover obligation applies to artefacts developed specifically under this contract, and does not extend to the pre-existing proprietary software of the bidder, its partners or third-party OEMs, which will be supplied under standard licence terms with perpetual internal-use rights for OIL. Please also state what OIL expects to receive at handover in respect of subscription-licensed components. | IP handover obligation applies to artefacts developed specifically under this contract, and does not extend to the pre-existing proprietary software of the bidder, its partners or third-party OEMs, which will be supplied under standard licence terms with perpetual internal-use rights for OIL.                                                                                                                                                                                                        |
| 222. | SOW | Integration is required with Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR and PVElite, qualified as 'as applicable' and 'as and when procured'.                                                                                           | Please provide, for each of the eight tools, whether OIL currently licenses it, the version and deployment mode (desktop or server), and the integration interface available. Please confirm which of these tools are in scope at bid stage, and that tools not licensed at the time of award are excluded from the fixed price.                                                                                                                        | Primavera is currently in use and Aspen HYSYS, Pipesim, OLGA, Flaresim, Fathom, HTRI, CAESAR, PVElite, ERP and GIS as integration target. During bid, bidders must inventory relevant systems, versions and integration mechanisms. Exact live/planned tool status will be identified during discovery with OIL. All components should be considered during bids.<br><br>Further OIL will confirm during Discovery which engineering tools are licensed, versions, deployment mode and available interfaces. |
| 223. | SOW | The bidder must provide sizing calculations based on project, WBS and activity counts, history depth and refresh patterns, and must integrate across OIL sites and assets PAN-India.                                                                    | Please provide the number of active and historical projects, WBS elements, activities and resource assignments; the years of history available in Primavera P6 and in the ERP; and the number of locations and business units in scope. Please also confirm whether all sites operate on a single Primavera P6 instance and a single ERP instance, or on multiple instances.                                                                            | Regarding the historical Primavera data, please refer to the response provided against Sl. No. 40 above.<br><br>For the ERP system, historical data—including cost, contract award date, amendments, project completion date, etc.—are available from 2010 onwards.                                                                                                                                                                                                                                          |
| 224. | BQ  | Software licensing is to be quoted organisation-wide for five years and cloud subscription per year for five years.                                                                                                                                     | Please provide the expected number of named users and peak concurrent users, by role, for year 1 and for year 5 of the contract.                                                                                                                                                                                                                                                                                                                        | 50 users, 30% concurrent, rest to be confirmed.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## **ANNEXURE-I**

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| 225. | SOW | Penalties are linked to '90% accuracy with a 90% confidence interval', with 85–90% attracting 5% of implementation cost and 80–85% attracting 10%, while SOW cl. 3.7 states the UAT criterion as model performance greater than 80%.                                                                                                  | Please define the accuracy measurement: the target variables being predicted, the error measure (MAE, MAPE, RMSE or classification accuracy), the tolerance band, the forecast horizon, and the population of projects measured. Please also state how the 90% confidence figure is computed and audited.              | Accuracy will be defined use-case-wise during AI/ML design. Forecasting models may use MAE/RMSE/MAPE; classification models may use accuracy, precision, recall or F1. Dataset, tolerance, horizon, project population and confidence computation will be approved by OIL during implementation. |
| 226. | SOW | SOW Section 7 obliges OIL to provide the historical datasets required to train the models, while the accuracy penalty in SLA cl. 4.4 is drafted as unconditional.                                                                                                                                                                     | Please confirm that the accuracy service level is measured only after OIL has supplied historical data meeting the completeness, depth and quality benchmarks agreed at design stage, and that any shortfall attributable to unavailable, incomplete or poor-quality source data is excluded from penalty.             | Accuracy SLA will apply only after agreed historical data quality, depth and completeness benchmarks are met. Accuracy impact due to unavailable, incomplete or poor-quality OIL data shall be documented and excluded from penalty consideration.                                               |
| 227. | SOW | What-if simulation must cover resource changes, activity resequencing and constraint changes, quantifying the impact on finish date, cost at completion and resource loading.                                                                                                                                                         | Please confirm whether OIL expects deterministic critical-path recalculation, probabilistic (Monte Carlo) schedule risk analysis, or optimisation with automated recommendations. Please also confirm whether scenario results must be written back to Primavera P6, or held only within the solution.                 | No write back of data is allowed. The solution should support what-if simulation, including schedule/cost/resource scenarios. Deterministic analysis is minimum; Monte Carlo/optimization may be proposed where data supports it.                                                                |
| 228. | SOW | The solution must integrate with OIL's Command-and-Control Centre; DMS, EAM/CMMS, HRMS, risk registers and contract management records are listed among systems to which OIL will provide access; document ingestion with OCR is required; and training is stated as 60 users per year while SOR item 180 prices only three sessions. | Please provide the estimated document volume, historical page count and expected monthly rate, and the proportion that are scanned images rather than digital text.                                                                                                                                                    | Roughly on an average 500 to 1500 nos. of documents per projects based on size and complexity of the project. No. of pages per document varies in the range 2 - 150 pages. (c) Most of the documents are in a structured format. Approx. 15% documents per project may be requiring OCR.         |
| 229. | SOW | Both bulk historical load and incremental or near-real-time refresh are required at an agreed frequency; enhancements during the M&S period are the bidder's responsibility at no extra cost, expressly including new system integrations and new data                                                                                | Please confirm (a) the required refresh frequency for each source system, and whether 'near real-time' means intra-day refresh or whether a daily batch cycle is acceptable; (b) an annual quantum of included enhancement effort, in person-days, beyond which changes are priced separately, and that integration of | Batch cycle is acceptable, for M&S any new integration not included in scope of work will be subject to a different change order.                                                                                                                                                                |

## **ANNEXURE-I**

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|      |     | sources; and VAPT is required before Go-Live and every six months thereafter with remediation of all findings.                                                                                                        | source systems not listed in the Scope of Work falls outside the fixed M&S price.                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                  |
| 230. | SOW | Work executed by a bidder for its own organization/parent subsidiary/co-subsidiary/sister-subsidiary/Joint Venture cannot be considered as experience for the purpose of meeting BEC.                                 | TCE has successfully executed a similar project for another Tata Sons Group company, which operates as an independent and separately listed entity with no contractual or organizational association with TCE beyond being part of the Tata Group. Kindly clarify whether such project experience can be considered and showcased for meeting the BEC/BQC experience criteria under this tender | If the work executed by the bidder falls under any of the stipulated categories in the said Clause No. F) under Notes to BEC Clause 3.1 of BEC, then such experience shall not be considered for the purpose of meeting the BEC.                                 |
| 231. | BEC | Considering the novel nature of the project and the limited implementation of similar AI-driven project performance monitoring solutions in India, we request OIL to kindly review the Bid Evaluation Criteria (BEC). | We request that the BEC clause 3.1 a) or b) so that PTR for AI Driven Project Performance monitoring solution or AI-enabled project controls solution is not mandatory. PTR for Project Performance monitoring solution or project controls solution without AI is accepted.<br><br>We request your kind consideration of the above and an appropriate amendment to the BEC.                    | BEC clause shall prevail.                                                                                                                                                                                                                                        |
| 232. | BQ  | BOQ items covering the Core Platform, AI/ML modules and all integrations are quoted as Lumpsum, Qty 1, with the technology stack left entirely to the bidder's choice (no OEM mandated).                              | Since solution depth, automation level and architecture are bidder-defined, how will OIL ensure L1 price comparability across bidders proposing materially different scope/effort? Request OIL to issue a minimum technical baseline or indicative effort (man-months) per module to standardise Lumpsum pricing.                                                                               | Not required, bidder to propose as per their suggested solution.                                                                                                                                                                                                 |
| 233. | BQ  | Prices are stated to be firm & fixed for the entire 68-month contract, while the bidder is separately required to size and scale up compute/storage/bandwidth as load grows, subject to OIL's prior approval.         | Please clarify the commercial mechanism for cost variation on infrastructure scale-up — a pre-agreed rate card, a Change Order process, or full absorption within the firm & fixed price — as the two provisions appear to conflict over a 5-year term.                                                                                                                                         | Any infrastructure scales up if required in M&S period can be taken up as a separate change request with alignment and confirmation from OIL. The bidder can propose the rate card attribute providing infrastructure cost with estimated underlying parameters. |
| 234. | BEC | Bidder must maintain ≥20% Local Content (LC) and state the specific LC% in the bid, failing which the bid is rejected.                                                                                                | For a predominantly SaaS/cloud-hosted solution using global hyperscaler cloud and third-party AI/BI licences, please confirm the prescribed LC computation methodology — specifically whether cloud subscription/licence                                                                                                                                                                        | Refer to the applicable provisions of the Public Procurement (Preference to Make in India) Order, 2017, as amended from time to time.                                                                                                                            |

## **ANNEXURE-I**

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|      |     |                                                                                                                                           | cost is excluded from the LC computation base under PP-MII guidelines for services contracts.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                              |
| 235. | BEC | Bidders must indicate SAC Code and applicable GST rate for an offer combining SaaS licensing, implementation services and multi-year M&S. | Please confirm whether OIL expects a single composite SAC code/GST rate for the entire offer, or component-wise SAC/GST classification (licence vs. implementation vs. M&S) in the Price Bid Format.                                                                                                                                                                                                                                                                                                                                                      | Bidders should quote component-wise SAC/GST wherever supplies/services are separately identifiable. GST treatment shall remain bidder's responsibility and subject to applicable tax law.                                                                                                    |
| 236. | SOW | M&S quoted value must not be less than 20% of Total Contract Value; any shortfall is withheld from invoices.                              | Please clarify the consequence if a bidder's cost-based M&S quote is marginally below 20% due to an efficient, automation-led support design — is this BEC-disqualifying, or a commercial loading/adjustment only?                                                                                                                                                                                                                                                                                                                                        | A commercial loading/adjustment only.                                                                                                                                                                                                                                                        |
| 237. | SOW | Licensing model                                                                                                                           | It is requested that the Authority kindly confirm whether a named-user or concurrent-user licensing model is required, and disclose the expected total user headcount (organization-wide) for which the 5-year "organization-wide" SaaS license (BOQ Sl.190) must be sized. Justification: License cost differs materially between named-user and concurrent-user models; "organization-wide" licensing cannot be quantified or priced without a disclosed headcount.                                                                                     | 50 users, 30% concurrent, Bidders may propose named or concurrent licensing, but must clearly state assumptions. Indicative/final user counts will be validated during Discovery/design; scalable licensing should be offered.                                                               |
| 238. | SOW | Third-party tool license/API costs                                                                                                        | It is requested that the Authority kindly confirm whether OIL will provide any required API/integration-module licenses for Primavera and the 7 engineering tools (AspenTech, Bentley and similar OEMs), in the same manner as OIL has committed to provide SAP integration licenses — or whether the bidder is required to price these separately. Justification: OEM API/integration-module licenses for engineering tools can represent a significant and difficult-to-estimate cost; this ambiguity creates material commercial risk in the L1 price. | OIL will provide available access/credentials. All adapters, connectors, APIs, integration add-ons and OEM integration-module costs, except specifically stated SAP integration licences, shall be in bidder scope.                                                                          |
| 239. | SOW | Post-go-live enhancement liability                                                                                                        | It is requested that the Authority kindly define the boundary between an "enhancement" (to be delivered by the bidder within the M&S scope at no additional cost, per the SOW note) and a "new scope/Change Request" (to be separately estimated and billed), and confirm the Change                                                                                                                                                                                                                                                                      | Fixed M&S covers support, bug fixes, patches, minor configurations and agreed minor enhancements. New modules, major integrations, new source categories or substantial functional expansion shall be taken up on a case by case basis and may follow CR/change-control as confirmed by OIL. |

## **ANNEXURE-I**

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|      |     |                                                            | Request approval and effort-estimation mechanism applicable during the 60-month M&S period. Justification: As currently worded, OIL could treat any future functional addition as a free "enhancement," creating unbounded and unpriced scope liability across the 5- year M&S term, and materially affecting the viability of the mandatory M&S price (minimum 20% of Total Contract Value).                                                                                                                                                                                                                  |                                                                                                                                                                                                                                  |
| 240. | SOW | Onsite vs. remote delivery for core team                   | It is requested that the Authority kindly confirm the minimum onsite presence required for the core project team (Project Manager, Solution Architect, AI/ML Lead, etc.) at Duliajan/Assam for the 68-month contract term, given that the SOW refers only to "onsite/offsite personnel as required" and Out-of-Pocket/travel costs are explicitly non-reimbursable and must be absorbed within the quoted price. Justification: Onsite vs. remote delivery is one of the largest cost drivers in the bid (travel, relocation and lodging for a multi- year Assam-based deployment) and is currently ambiguous. | During Implementation all personnel to be available onsite.                                                                                                                                                                      |
| 241. | SOW | O&M support hours (8x5 vs 24x7)                            | It is requested that the Authority kindly confirm whether the L1/L2 helpdesk is required to be staffed on a 24x7 basis or only during OIL's standard business hours, given that Critical (P1) incidents require a 1-hour response time and 4-hour resolution target. Justification: 24x7 staffing materially increases M&S manpower cost as compared to 8x5 staffing, and is a major cost driver for the mandatory M&S component (minimum 20% of Total Contract Value).                                                                                                                                        | Bidders should assume 24x7 on-call support.                                                                                                                                                                                      |
| 242. | SOW | Firm & fixed pricing vs. 5- year cloud/OEM cost escalation | It is requested that the Authority kindly clarify whether any price-variation/pass-through mechanism is permitted for the Part-II Infrastructure (cloud/SaaS subscription, SL190/200) line items in line with OEM/hyperscaler price revisions, or whether bidders are required to fully absorb 5 years of potential cloud-pricing escalation within a firm                                                                                                                                                                                                                                                     | Contract price shall remain firm for the quoted scope and assumptions. OEM/cloud escalation within quoted assumptions is bidder's responsibility; material scope/usage growth may be considered through approved change-control. |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                                                                                                                | quote, notwithstanding Cl. 3.11's statement that the contract price shall remain firm and fixed "not subject to variation on any account." Justification: A strict firm-and-fixed reading over the 68-month term exposes the bidder to unbounded cloud-cost-escalation risk on BOQ items whose pricing is set by third-party hyperscalers/OEMs and is outside the bidder's control.                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                     |
| 243. | BEC | In case the bidder is a Joint Venture Company, they must be registered in India and incorporated under the Companies Act 1956/Companies Act 2013/Limited Liability Partnership Act 2008 and any amendment thereunder and shall comply to Clause No. 2.0 above. | Request OIL to allow bidding through a Consortium (in addition to a Joint Venture), with a maximum of three (3) members, subject to the condition that the Consortium jointly meets the Pre-Qualification and Technical Qualification criteria specified in the RFP. A Consortium arrangement widens the pool of eligible bidders without diluting qualification standards, since all members would jointly meet the same Pre- Qualification and Technical Qualification criteria applicable to a JV. This allows bidders with complementary technical, financial, and execution capabilities to participate through a leaner contractual structure, encouraging wider and more competitive participation. | Tender terms shall prevail.                                                                                                                                                                         |
| 244. | SOW | Only 'successfully completed' contracts are considered; sub-contracted or own-entity work is excluded.                                                                                                                                                         | AI/PPM engagements are typically continuous multi-year Go-Live + M&S contracts. Please confirm whether a project that is Go-Live/operational but still running under its M&S/Warranty period qualifies as 'successfully completed' for this criterion.                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BEC clause shall prevail.                                                                                                                                                                           |
| 245. | SOW | Bidder must confirm mobilization within 30 days of LOA; SOW timeline separately shows Discovery, Due Diligence and Solution/AI-ML Design sign-off completing at T1+1.5 months.                                                                                 | Please confirm whether the 30-day mobilization period covers only resource onboarding/compliance formalities, or also the technical discovery/design activities shown at T1+1.5 months, and reconcile the two timelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | The 30-day mobilization covers resource onboarding, CV submission, kick-off, governance and initial readiness. Detailed Discovery/design continues as per the T1+1.5 month implementation schedule. |
| 246. | BEC | In a JV, Experience Criteria may be met by a member with ≥26% stake and Financial Criteria by a                                                                                                                                                                | Please confirm whether Corporate Guarantee/undertaking is required from both members in such a split-qualification JV, or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Please refer to Tender Clause No. 4.3 (iii) and Proforma-XXII for clarity regarding the Corporate Guarantee to be furnished by the Joint Venture Company towards financial standing.                |

## **ANNEXURE-I**

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|      |     | different member with >50% stake.                                                                                                              | only from the member extending financial strength.                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                           |
| 247. | SOW | BEC documents must be verified by an OIL- empanelled TPI agency before/with the bid, or within 7 days of bid opening.                          | For an Indian subsidiary of a foreign-incorporated bidder/OEM partner, please clarify whether the 7-day post-bid-opening window for TPI verification can be extended on account of cross-border document logistics.                                                                                                          | Not allowed, no change.                                                                                                                                                                                                                                                                                                                                                   |
| 248. | SOW | CVs of Key Personnel must show the individual on the bidder's payroll for ≥1 year before bid closing.                                          | For specialised AI/ML and Data Engineering roles, where project-specific hiring is standard industry practice. Request you to please allow remove the requirement of on Payroll for last 1 year.                                                                                                                             | For niche roles such as AI/ML, Data Engineering, Integration and Project Controls, the requirement of one-year prior payroll is relaxed. The bidder shall submit the proposed CVs, qualification/experience details and payroll/deployment confirmation for OIL's review and approval before deployment. Final acceptance of such personnel shall be at OIL's discretion. |
| 249. | SOW | Key-personnel lock-in duration                                                                                                                 | It is requested that the Authority kindly confirm whether the restriction on changing key personnel without OIL's approval extends through the full 60-month M&S phase, or applies only during the 8-month Implementation phase. Justification: This affects staffing and resourcing flexibility over the 5-year M&S period. | Key-personnel lock-in applies during implementation and hypercare. During M&S, changes may be permitted with prior OIL approval and equivalent qualified replacements.                                                                                                                                                                                                    |
| 250. | SOW | All cloud traffic must route through OIL's existing Azure Landing Zone/NGFW-VPN gateway; bidder to factor data-transmission cost in its offer. | Please clarify the bandwidth/data-egress cost-sharing responsibility between OIL and the bidder, and confirm that OIL's existing Landing Zone has adequate provisioned capacity for the expected AI/ML training and ingestion data volumes.                                                                                  | Bidder shall factor data transmission and gateway/connectivity components for its proposed cloud model. OIL will provide landing-zone details/capacity inputs during Discovery.                                                                                                                                                                                           |
| 251. | SOW | OIL will 'separately arrange and provide SAP integration software licences' to the successful bidder.                                          | Please confirm the timeline for OIL's provisioning of SAP integration licences relative to LOA issuance, and confirm that any delay on OIL's part will extend the bidder's mobilization/Go-Live timeline on a day-for-day basis, without LD implication.                                                                     | Any delay outside the purview and control of Bidder shall not enforce LD/penalties subject to proper documentation and approval by OIL.                                                                                                                                                                                                                                   |
| 252. | SOW | Integration with HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite is scoped 'as applicable'.                                      | Please specify the exact number of instances/versions of each engineering tool currently in use, their current API/export capability, and confirm whether vendor-side API documentation/sandbox access will be shared at the bid stage or only post-award.                                                                   | Primavera P6 Professional 22. Other Engineering software are in procurement stage. Details to be shared during discovery.                                                                                                                                                                                                                                                 |
| 253. | SOW | Pre-Go-Live AI/ML model accuracy SLA requires ≥90% accuracy at 90% confidence                                                                  | Please define the specific accuracy metric applicable to each model type (e.g., MAPE/R <sup>2</sup> for cost-schedule regression models vs.                                                                                                                                                                                  | Accuracy shall be defined use-case-wise. Forecasting may use MAE/RMSE/MAPE; classification may use accuracy/precision/recall/F1. Validation dataset and methodology will be approved during AI/ML design.                                                                                                                                                                 |

## **ANNEXURE-I**

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|      |     | interval for 'No Penalty'; tiered penalties below this; <80% is 'Not Acceptable'. | classification accuracy for risk- flagging models), and confirm the reference/ground-truth dataset OIL will provide for validation, since a single uniform accuracy scale is not meaningful across model types.                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                              |
| 254. | SOW | Solution uptime SLA is set at 99.95%.                                             | Please clarify whether this obligation applies to the bidder's application layer only, or also extends to the underlying hyperscaler's own published SLA (e.g., ~99.9% for many Azure services), and how liability is apportioned for downtime caused by the cloud provider rather than the bidder.                                                                                                                                                                                                                                                                                                 | 99.95% SLA applies to bidder-controlled production solution components. Downtime solely caused by hyperscaler/OIL infrastructure beyond bidder control shall be treated as an exclusion, subject to evidence.                                |
| 255. | SOW | Power BI/Tableau/Qlik referenced as indicative BI/visualisation options.          | Please confirm whether OIL already holds enterprise licences for any of these BI tools (e.g., an existing Power BI/M365 tenancy) that bidders should reuse, or whether full BI licensing cost is to be quoted afresh.                                                                                                                                                                                                                                                                                                                                                                               | The tender does not mandate any specific BI/visualization platform and does not envisage provision of BI tool licenses by OIL. Bidders shall factor all licenses, subscriptions, and software components required for the proposed solution. |
| 256. | SOW | Non-functional requirements                                                       | It is requested that the Authority kindly specify the numeric values for: (a) maximum dashboard/filter response time, (b) the daily data-refresh window, and (c) the target RTO/RPO in hours, as the SOW currently refers only to "agreed thresholds", "agreed availability targets" and "agreed RPO/RTO" without disclosing the actual figures. Justification: Without disclosed numeric NFR targets, the architecture, HA/DR design and pricing of the Cloud + Platform BOQ items (Sl. 190/200) cannot be finalized, and an incorrect assumption cannot be corrected once the L1 price is locked. | Bidders should propose NFR targets. Suggested baseline: dashboard load 5 sec, drill-down 5 sec, final will be confirmed during implementation. Daily refresh before business hours, RPO/RTO to be finalized in design.                       |
| 257. | SOW | Concurrent users/transaction volumes                                              | It is requested that the Authority kindly disclose the baseline figures required for sizing, namely: the current count of active capital projects, the average WBS/activity count per project, the number of years of historical Primavera/SAP data to be migrated, and the expected number of concurrent/named users. The SOW requires bidders to size the solution on these parameters but does not disclose them. Justification: These figures are the single largest driver of cloud                                                                                                            | 5 yrs, ~12 GB, 50 users, 30% concurrent. Actuals to be provided during discovery phase.                                                                                                                                                      |

## **ANNEXURE-I**

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|      |     |                                | subscription, storage and licensing cost (BOQ Sl.190/200); without them every bidder will size arbitrarily, rendering L1 price comparison unreliable and creating grounds for post-award disputes.                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                            |
| 258. | SOW | Geographic scope               | It is requested that the Authority kindly provide a list of all OIL sites/circles/basins (in addition to Duliajan HQ) where dashboard/portal access, network connectivity, or on-site support presence will be required under this contract. Justification: This information is necessary for network/bandwidth planning and for assessing travel-cost exposure, given that Out-of-Pocket expenses are borne by the bidder and are not separately reimbursable.                                                                       | PAN-India access is in scope through secure web access. Specific sites requiring onsite support/travel will be finalized during rollout planning; bidders should state travel assumptions. |
| 259. | SOW | Data quality of source systems | It is requested that the Authority kindly clarify the current data quality/consistency status of Primavera P6 and SAP master data (e.g., uniform WBS coding across projects, availability of baselines), and confirm whether cleansing of this legacy data is OIL's responsibility or the bidder's. Justification: Data-quality remediation is frequently the largest hidden cost in AI/analytics implementations; the scope of this responsibility must be fixed prior to finalization of the L1 price to avoid subsequent disputes. | Data profiling is bidder scope. Cleansing/correction at source remains OIL/data-owner responsibility.                                                                                      |
| 260. | SOW | HA/DR — RTO/RPO                | It is requested that the Authority kindly confirm the target RTO/RPO in hours, and clarify whether a dedicated DR region/environment (distinct from the Production environment) is mandatorily required to meet the stated 99.95% uptime SLA. Justification: This determines the cloud architecture (single-region vs. multi-region), directly affects cost, and is necessary to assess the bidder's ability to meet the penalty-bearing 99.95% uptime SLA.                                                                           | RPO/RTO will be finalized during design. Cloud-native DR/geo-redundancy may be proposed; a dedicated DR environment is required only if needed to meet agreed RPO/RTO and uptime.          |
| 261. | SOW | Multi-tenancy/future scope     | It is requested that the Authority kindly clarify whether the solution is required to support other OIL group entities/JVs/subsidiaries in future, or whether scope is limited to OIL India                                                                                                                                                                                                                                                                                                                                           | Current scope is for OIL India Limited.                                                                                                                                                    |

## **ANNEXURE-I**

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|      |     |                                                     | Limited on a standalone basis. Justification: This affects data-model and tenancy design decisions taken at the architecture stage, which would be costly to retrofit at a later date.                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                           |
| 262. | SOW | Mobile/offline access                               | It is requested that the Authority kindly clarify whether "mobile accessibility" (Cl. 3.3) requires a native mobile application or whether a responsive web dashboard is acceptable, and whether offline/field access is required for engineers at remote sites. Justification: Native mobile application development involves materially greater effort than a responsive web dashboard, and this directly affects pricing of BOQ Sl.60.                                                                                                                                                                                       | Native mobile app.                                                                                                                                                        |
| 263. | SOW | Browser/device compatibility                        | It is requested that the Authority kindly specify the mandated browser/OS support matrix and any applicable accessibility (WCAG) requirement for the dashboards. Justification: The supported browser/device matrix determines the testing scope and choice of UI framework, both of which affect the technical proposal and pricing.                                                                                                                                                                                                                                                                                           | Bidders should support latest Chrome/Edge and standard enterprise devices. WCAG/accessibility compliance may be proposed, further to be finalized during implementation.  |
| 264. | SOW | Ownership of API development on source- system side | It is requested that the Authority kindly confirm whether OIL's internal IT/SAP Basis/tool-owner teams will expose and maintain the APIs/database access for Primavera, SAP S/4HANA and the 7 engineering tools, and provide the necessary environment access within the 8- month implementation window — or whether the bidder is expected to build all connector- side logic unassisted. Justification: This is a major schedule- dependency risk; Liquidated Damages of 0.5% per week (capped at 7.5%) apply for Go-Live delay, but the SOW does not currently address delay attributable to OIL- side API/access readiness. | OIL source-system owners will facilitate available APIs/database/file access. Bidder remains responsible for connector-side design/build, adapters and integration logic. |
| 265. | SOW | Data exchange frequency                             | It is requested that the Authority kindly specify the required batch/refresh window for each source system (Primavera, SAP, engineering tools, GIS, documents), as the SOW's reference to "near real-time triggers where supported by                                                                                                                                                                                                                                                                                                                                                                                           | To be provided during implementation, batch refresh is acceptable.                                                                                                        |

## **ANNEXURE-I**

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|      |     |                              | source systems" does not define a specific frequency. Justification: The refresh-window design affects the integration architecture and interacts with the NFR-linked penalty clause; this must be defined prior to solution design.                                                                                                                                                                                                                           |                                                                                      |
| 266. | SOW | Legacy/parallel-run support  | It is requested that the Authority kindly confirm whether a parallel run of the existing manual/Excel-based project-reporting process is required after Go-Live, and if so, for what duration. Justification: Parallel-run support constitutes additional effort that is not currently costed in the SOW, if required.                                                                                                                                         | Tender terms shall prevail.                                                          |
| 267. | SOW | Secure coding standard       | It is requested that the Authority kindly confirm whether a specific secure coding/code-review standard (e.g., OWASP ASVS) applies to the bidder's custom- developed application code and AI/ML pipelines, as the SOW currently mandates cloud-provider standards (NIST SP 800-53, IEC 62443) only. Justification: This determines whether a separate application-layer security audit/VAPT scope is required, in addition to the cloud VAPT already mandated. | Tender terms shall prevail.                                                          |
| 268. | SOW | UI/UX design iteration limit | It is requested that the Authority kindly specify the number of design/wireframe review-and-revision cycles permitted for dashboards/reports before impacting the 8-month implementation timeline, and confirm who holds final design sign-off authority (EIC or Steering Committee). Justification: An unbounded number of revision cycles is a common cause of schedule slippage on fixed-price, fixed- timeline contracts.                                  | Will be defined in association and alignment with OIL during project implementation. |
| 269. | SOW | Data cleansing ownership     | It is requested that the Authority kindly confirm whether the cleansing/correction of legacy Primavera/SAP master data (e.g., WBS inconsistencies, missing baselines, duplicate records) identified during Data Profiling is OIL's responsibility to remediate at source, or the bidder's responsibility to remediate within the implementation timeline and price. Justification: Undefined data-cleansing scope is                                           | Tender terms shall prevail.                                                          |

## **ANNEXURE-I**

|      |     |                                                |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                 |
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|      |     |                                                | among the most common causes of implementation overrun in analytics/AI projects and must be settled prior to finalization of the L1 price.                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 270. | SOW | GIS spatial accuracy/ground-truthing           | It is requested that the Authority kindly confirm whether OIL's existing GIS layer (routes/assets/location context) is already survey-grade and production-ready, or whether the scope includes field ground- truthing/GPS validation of spatial data. Justification: Field survey work represents a materially different, and significantly more expensive, scope than consuming an existing GIS feed. | Existing GIS layers will be consumed as provided. Field survey, GPS validation or ground-truthing is not included.                                                                              |
| 271. | SOW | Schema/data-model ownership                    | It is requested that the Authority kindly confirm whether OIL has an existing enterprise data model/MDM standard that the proposed semantic layer/data model must conform to, or whether the bidder is free to propose its own data architecture. Justification: This affects design freedom and the integration effort required with any existing OIL data governance framework.                       | If OIL has enterprise data/MDM standards, bidder shall align to them. Otherwise, bidder may propose the semantic/data model for OIL approval.                                                   |
| 272. | SOW | Historical data migration volume               | It is requested that the Authority kindly specify the exact number of years of historical Primavera/SAP project data to be migrated/ingested at Go-Live. Justification: Storage sizing, ETL effort and the pricing of the Cloud BOQ items (Sl.190/200) directly depend on this figure.                                                                                                                  | ~5 yrs, ~12 GB, actuals will be confirmed during discovery.                                                                                                                                     |
| 273. | SOW | Test environment funding                       | It is requested that the Authority kindly confirm whether the DEV/SIT/UAT/PRD environments are included within the SaaS/Cloud subscription BOQ items (Sl.190/200), or whether separate/additional environment costs should be quoted. Justification: This ambiguity risks under- or over-pricing of the Infrastructure BOQ line by bidders.                                                             | DEV/SIT/UAT/PRD environments required for delivery should be included in the bidder's cloud/SaaS proposal.                                                                                      |
| 274. | SOW | Cloud Landing Zone bandwidth/latency guarantee | It is requested that the Authority kindly confirm whether OIL guarantees a bandwidth/latency SLA on its Azure Landing Zone (through which all cloud traffic is mandatorily routed), and                                                                                                                                                                                                                 | OIL-side landing-zone/network issues beyond bidder control shall be excluded from bidder SLA calculations, subject to logs/evidence. Bandwidth/latency details will be finalized during design. |

## **ANNEXURE-I**

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|      |     |                                       | clarify the recourse/relief available to the bidder where an OIL-side network issue results in a breach of the bidder's 99.95% uptime SLA. Justification: The bidder is currently exposed to financial penalties for uptime/availability breaches attributable to infrastructure (the Landing Zone) that it does not control and cannot independently guarantee.                  |                                                                                                                                                                                              |
| 275. | SOW | Last-mile responsibility connectivity | It is requested that the Authority kindly confirm whether OIL or the bidder is responsible for network connectivity between end-user sites/circles and the Azure Landing Zone. Justification: This determines whether the associated network cost and SLA risk sit with the bidder.                                                                                               | Connectivity from OIL end-user sites to OIL network/Azure Landing Zone shall be OIL responsibility. Bidder is responsible for connectivity/components within its proposed solution boundary. |
| 276. | SOW | Dedicated DR environment requirement  | It is requested that the Authority kindly confirm whether a separate DR region/environment (in addition to DEV/SIT/UAT/PRD) is mandatorily required to meet the stated RTO/RPO and 99.95% uptime target. Justification: This materially affects the pricing of the Cloud/Infrastructure BOQ item (Sl.200), as a DR region approximately doubles the relevant infrastructure cost. | Separate DR architecture should be proposed if required to meet agreed RPO/RTO and uptime. Cloud-native DR is acceptable subject to India data residency and OIL approval.                   |
| 277. | SOW | Cutover downtime window               | It is requested that the Authority kindly specify the maximum permissible production downtime window during Go-Live cutover, and the rollback trigger criteria applicable in the event cutover is unsuccessful. Justification: This is necessary to plan the cutover runbook and rollback commitments within the fixed 8-month implementation timeline.                           | Cutover downtime and rollback criteria will be defined in the cutover plan during implementation. Bidder should propose a low-risk window and rollback procedure for OIL approval.           |
| 278. | SOW | Scope of security certifications      | It is requested that the Authority kindly confirm whether the certifications listed at Cl. 3.3 (ISO 27001/SOC 2/GDPR/NIST SP 800- 53/IEC 62443) are required of (a) the bidder's own organization, (b) the underlying hyperscaler (Azure/AWS/GCP), or (c) both — and whether certificates must be submitted at the bid stage or only post- award. Justification: This affects     | The proposed solution and supporting infrastructure shall comply with ISO 27001:2022 and SOC 2 requirements, as applicable.                                                                  |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                         | bid-eligibility documentation and the choice of cloud provider proposed by the bidder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                    |
| 279. | SOW | Governance structure & escalation matrix                                                                                                                                | It is requested that the Authority kindly confirm the overall project governance structure (Steering Committee composition and meeting frequency), and specify the business (non-incident) escalation matrix and reporting cadence expected from the bidder, as the SOW currently mentions only "executive summaries for steering committee meetings" and a 3-level escalation matrix defined for incident SLAs only. Justification: A defined governance and escalation structure is essential for managing a 68-month, multi-stakeholder engagement. | Governance will be finalized at kickoff. Suggested structure: Steering Committee monthly, PMO/project review fortnightly, technical working groups weekly, with escalation matrix approved by OIL. |
| 280. | SOW | VAPT is required once before Go-Live and every 6 months thereafter, through CERT-In empanelled auditors, at bidder's cost, with no separate payment.                    | CERT-In empanelled auditor fees are market-determined and outside the bidder's control. Please confirm whether these 10 recurring VAPT cycles over 5 years are to be built into the M&S quote, or reimbursed separately against actuals.                                                                                                                                                                                                                                                                                                               | Recurring CERT-In VAPT cycles should be factored in bidder's M&S price.                                                                                                                            |
| 281. | SOW | Key Personnel cannot be changed during Design/Development/Testing except for death/sickness/resignation, subject to OIL's approval of an equally-qualified replacement. | Please specify the maximum turnaround time OIL commits to for approving a replacement CV, so that approval delay attributable to OIL does not count against the bidder's LD/SLA exposure.                                                                                                                                                                                                                                                                                                                                                              | OIL will provide suitable approvals in a timely manner not impacting overall implementation delays.                                                                                                |
| 282. | SOW | Completion of Exit Management/Transition-Out is a precondition for release of the last two quarterly M&S payments.                                                      | Please specify the maximum time period within which OIL will complete its acceptance/sign-off of Exit Management deliverables, to bound the bidder's working- capital exposure on withheld payments.                                                                                                                                                                                                                                                                                                                                                   | Exit deliverables should be submitted before contract closure. OIL acceptance/sign-off should be completed within a reasonable period, exit management to be completed within the last 2 months.   |
| 283  | SOW | Accuracy-SLA validation method                                                                                                                                          | It is requested that the Authority kindly specify the reference/ground-truth dataset and independent validation methodology that will be used to measure the AI accuracy SLA, and confirm whether the bidder will have an opportunity to review the test dataset prior to measurement. Justification: A financially significant tiered penalty (up to 10% of Implementation Cost) is linked to a 90%                                                                                                                                                   | Validation methodology and ground-truth dataset will be jointly agreed during AI/ML design. Bidder may review dataset structure/quality; testing shall use OIL-approved hold-out data.             |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                 | accuracy SLA at 90% confidence interval; an undefined measurement methodology creates substantial and unquantifiable commercial risk.                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                          |
| 284. | SOW | UAT resourcing commitment                                                                                                                       | It is requested that the Authority kindly confirm who will execute UAT test cases — OIL business users following bidder-drafted scripts, or a jointly-executed process — and specify the UAT team size and availability commitment OIL will provide, and for what duration. Justification: UAT delay attributable to inadequate OIL-side resourcing would directly threaten the Liquidated-Damages- bearing 8-month Go-Live timeline. | UAT shall be jointly executed: bidder prepares scripts/supports testing; OIL business users execute/validate and sign off. OIL will nominate UAT users and availability during planning. |
| 285. | SOW | Defect SLA during testing/warranty vs. O&M                                                                                                      | It is requested that the Authority kindly confirm whether the P1-P5 severity/response-time SLA table (Cl. 4.1) also applies to defects raised during SIT/UAT (pre-Go-Live), or whether a separate defect-resolution SLA is intended for the implementation phase. Justification: This clarification avoids disputes regarding which SLA/penalty regime applies to pre-Go-Live defects.                                                | P1-P5 operational SLA applies post go-live/M&S.                                                                                                                                          |
| 286. | SOW | VAPT agency selection                                                                                                                           | It is requested that the Authority kindly confirm whether OIL will nominate/approve the specific CERT-In empanelled VAPT agency, or whether selection of the agency (from the empanelled list) is entirely at the bidder's discretion. Justification: This affects the VAPT cost and scheduling assumptions that the bidder must incorporate into its price.                                                                          | VAPT auditor shall be CERT-In empanelled and nominated by bidder.                                                                                                                        |
| 287. | SOW | Implementation Milestones 0–4 are percentage-of-Implementation-Cost based; Infrastructure/Cloud (Item 5) and M&S (Item 6) are billed quarterly. | Please confirm whether Infrastructure/Cloud subscription billing commences only from Go-Live (Milestone 3), or from environment provisioning at T1+2.5 months per the SOW timeline, as this materially affects cash-flow planning.                                                                                                                                                                                                    | Cloud/SaaS subscription billing should commence from environment provisioning/activation.                                                                                                |
| 288. | SOW | Source code escrow                                                                                                                              | It is requested that the Authority kindly clarify whether a source-code escrow arrangement is required during the active 68-month contract term (e.g., in the event of bidder default), given                                                                                                                                                                                                                                         | Source-code escrow is not required. Source code/artefact handover will occur as per SOW at handover/exit for OIL-specific deliverables.                                                  |

## **ANNEXURE-I**

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|      |     |                                                                                                                         | that the SOW mandates full source-code handover only at contract exit/termination and sub-contracting is disallowed. Justification: Escrow terms, if required, involve separate legal and commercial provisioning and should be settled prior to bid submission.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                    |
| 289. | SOW | IP protection for bidder's core/reusable AI-ML platform algorithms                                                      | It is requested that the Authority kindly confirm whether the audit/inspection rights over "AI/ML models including training datasets, feature definitions, model parameters and hyperparameters" (GCC Cl. 25.0) and the exit-management requirement for full model/artefact handover with no retention by the Contractor apply only to the specific models/artefacts trained on OIL's data, or extend to the bidder's underlying, reusable AI/ML platform/algorithm IP (i.e., the general-purpose engine used across the bidder's other engagements). Justification: Full disclosure/handover of a bidder's proprietary, reusable platform algorithms (as opposed to the OIL-specific trained models) would materially affect the bidder's IP position and willingness/ability to bid; this boundary should be settled before pricing and technical proposal finalization. | Inspection/handover applies to OIL-specific trained models, configurations, datasets, feature definitions and artefacts. Bidder's reusable platform algorithms/background IP are excluded and remain bidder-owned. |
| 290. | SOW | Pre-bid queries close on 10.08.2026; Pre-Bid Conference is tentatively scheduled 12.08.2026; Bid Closing is 25.08.2026. | Please confirm the date of Pre-Bid Conference date and Location. Request you to please have the pre-bid online and help. We also sincerely request you to please give us 20 -25 working days after the pre-bid response are published for submission of the bid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NA.                                                                                                                                                                                                                |
| 291. | SOW | Minimum historical data period/project count for model training                                                         | It is requested that the Authority kindly confirm, prior to bid submission, the minimum historical data period and the minimum number of completed projects (of varying complexity) that will be made available for AI/ML model training and back- testing, as the SOW currently states these are "to be checked by vendor & confirmed by OIL during discovery" — i.e., after Go-Live timelines and BOQ pricing                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ~5 Yrs, ~12 GB actual will be provided during discovery.                                                                                                                                                           |

## **ANNEXURE-I**

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|      |     |                                                         | have already been fixed. Justification: The volume and quality of historical training data directly determines model design, feature engineering effort and the achievability of the 90% accuracy SLA; deferring this to the post-award Discovery phase transfers a material, currently unpriced risk to the bidder.                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                     |
| 292. | SOW | Back-testing accuracy threshold for production approval | It is requested that the Authority kindly specify the minimum back-testing accuracy threshold that AI/ML models must demonstrate to be "approved for production use" during the Configuration/Model Development milestone, and confirm whether this differs from the 90% Go-Live accuracy SLA (SLA Cl. 4.4), and whether failure to meet it delays release of the Milestone-2 payment (35% of Implementation Charges). Justification: The SOW requires "acceptable accuracy on historical back-testing" as a production-approval gate but does not define the acceptance threshold, creating ambiguity around a payment-linked milestone. | >80% is the Minimum production-approval during AI/ML design. >80% may be treated as go-live gate and 90% as target SLA.                                                             |
| 293. | SOW | Model-drift monitoring and retraining trigger/frequency | It is requested that the Authority kindly specify the expected model-drift monitoring approach and retraining frequency/trigger criteria (e.g., scheduled quarterly retraining vs. drift-triggered ad-hoc retraining) for the M&S phase, and confirm whether each retraining cycle is included within the quarterly M&S price or is separately billable. Justification: Retraining frequency is a significant recurring cost driver over the 60- month M&S period; without a defined cadence/trigger, this effort cannot be reliably estimated or priced.                                                                                 | Model performance should be reviewed quarterly, methodology to be aligned during implementation. Routine retraining within agreed cadence is included in M&S.                       |
| 294. | SOW | Explainability standard/technique expected              | It is requested that the Authority kindly clarify the expected depth, format and technique for the "explainable outputs" and model auditability required under the SOW (e.g., global/local feature-importance explanations such as SHAP/LIME, or a simpler rule-based driver narrative), and whether a specific explainability standard must be demonstrated                                                                                                                                                                                                                                                                              | Bidder to propose and aligned with OIL during implementation. SHAP/LIME, feature importance or business-readable driver narratives are acceptable if auditable and approved by OIL. |

## **ANNEXURE-I**

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|      |     |                                                               | at the Model Development milestone. Justification: Explainability requirements range from a simple textual summary of key drivers to a full formal XAI framework; the level required materially affects AI/ML design effort and tooling choice.                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                |
| 295. | SOW | Compute/GPU provisioning for AI/ML workloads                  | It is requested that the Authority kindly confirm whether the proposed AI/ML models (e.g., gradient boosting, time-series forecasting, as indicatively suggested in the SOW) are expected to require GPU-based compute, or whether CPU-based ML infrastructure is acceptable for the workloads in scope. Justification: GPU-based compute provisioning materially increases the Cloud/Infrastructure BOQ cost (Sl.200); this should be clarified given no compute/GPU sizing guidance is currently provided.                                                                                             | Bidder is free to propose.                                                                                                                                                                                     |
| 296. | SOW | Exact count and definition of AI/ML use-cases/models in scope | It is requested that the Authority kindly confirm the precise number and definition of discrete AI/ML use-cases/models required (e.g., schedule-delay forecasting, cost- overrun forecasting, high-risk task/contractor classification, what-if optimization), as the SOW describes these capabilities narratively without enumerating a fixed list of models. Justification: The AI/ML Design Document, Model Evaluation Report and pricing of BOQ Sl.70 (Predictive Analytics) and Sl.80 (What- If Simulation) all depend on a clearly bounded set of models; an open-ended reading risks scope creep. | Baseline AI/ML use cases are schedule-delay forecasting, cost-overrun forecasting, high-risk task/contractor/location identification and what-if scenarios. Final model list will be approved in AI/ML design. |
| 297. | SOW | Nature of the what-if simulation/optimization engine          | It is requested that the Authority kindly clarify whether the "what-if" simulation capability is expected to be a formal optimization engine (e.g., linear/constraint programming across resources, sequencing and constraints) or a simplified scenario re-forecast using the existing predictive models, and confirm the specific scenario types (resource, sequencing, constraint changes) that must be supported at Go-Live. Justification: A full optimization engine                                                                                                                               | Bidder is free to propose.                                                                                                                                                                                     |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                                                                                                                                         | is materially more complex and costlier to build than a scenario re-forecast; this distinction significantly affects the technical approach and pricing of BOQ Sl.80.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                      |
| 298. | SOW | AI governance/model risk-management framework                                                                                                                                                                                                                                           | It is requested that the Authority kindly confirm whether adherence to any specific AI governance or model risk-management framework (e.g., MeitY's AI governance guidelines or an OIL-internal framework, if any) is required, in addition to the accuracy, explainability and auditability requirements already specified in the SOW. Justification: This clarifies whether additional AI governance documentation, review processes or approvals (beyond those already listed) must be built into the implementation plan and priced.                                                                                                                                        | No specific AI governance framework is mandated beyond accuracy, explainability, auditability and documentation. Bidder should propose model governance aligned to OIL/MeitY guidance if applicable. |
| 299. | SOW | Human review/override for AI-generated risk flags                                                                                                                                                                                                                                       | It is requested that the Authority kindly confirm whether human review and sign-off is required before AI-generated outputs — such as identification of "high-risk tasks, interfaces, contractors and locations" — are surfaced to management, contractors or other stakeholders, and clarify how liability for decisions taken on the basis of AI-generated risk flags will be apportioned between OIL and the bidder. Justification: AI-flagged risk classifications concerning contractors/vendors may have commercial and reputational consequences; the absence of a defined human-in-the-loop review step and liability allocation exposes the bidder to open-ended risk. | AI outputs should be advisory and subject to OIL user review before business action. Human override/review should be role-based and logged; final decisions remain with OIL stakeholders.            |
| 300. | BEC | The Bidder must have successfully executed/completed at least 01 (One) no. of the following solutions in the last Seven (07) years reckoned from the Original Bid Closing Date for asset-intensive projects (Oil & Gas/Power & Utilities/Manufacturing/Metals & Mining/Infrastructure & | We request OIL to consider broadening the eligible project sectors to include Central/State Government, Semi-Government, PSUs, Urban Local Bodies (ULBs), and Statutory Authorities, in addition to the asset-intensive industries already listed, for the purpose of meeting the experience criteria under Clause 3.1.<br><br>The Bidder must have successfully executed/completed at least 01 (One) no. of the                                                                                                                                                                                                                                                                | BEC clause shall prevail.                                                                                                                                                                            |

## ANNEXURE-I

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|      |     | <p>Transportation/IT/Automotive/Chemicals/Electronics):</p> <p>a) AI Driven Project Performance monitoring solution incorporating project schedule, cost, progress, resource and risk monitoring with AI/ML-based predictive analytics, forecasting and dashboarding.</p> <p>OR</p> <p>b) AI-enabled project controls solutions comprising predictive schedule analysis, cost forecasting, risk prediction, portfolio monitoring and decision-support capabilities.</p> | <p>following solutions in the last Seven (07) years reckoned from the Original Bid Closing Date, for asset-intensive projects in sectors including Oil &amp; Gas/Power &amp; Utilities/Manufacturing/Metals &amp; Mining/Infrastructure &amp; Transportation/IT/Automotive/Chemicals/Electronics, and/or Central or State Government/Semi-Government/PSUs/ULBs/Statutory Authorities::</p> <p>a) AI Driven Project Performance monitoring solution incorporating project schedule/cost/progress/resource and risk monitoring with AI/ML-based predictive analytics/forecasting and dashboarding.</p> <p>OR</p> <p>b) AI-enabled Process/Workflow System/project controls solutions comprising predictive schedule analysis/cost forecasting/risk prediction/portfolio monitoring/decision-support capabilities</p> |                           |
| 301. | BEC | <p>Additionally, the requisite experience of implemented AI Driven solution under Clause Nos. 3.1 a) or b) above, must include integration with at least 01 Enterprise Project Planning or ERP system, such as Primavera P6/Microsoft Project/SAP.</p>                                                                                                                                                                                                                  | <p>The current clause restricts the qualifying integration to Primavera P6, Microsoft Project, or SAP only. Many capable bidders may have implemented comparable AI-driven solutions integrated with other widely adopted enterprise platforms such as Oracle EBS, Oracle Fusion, MS Dynamics, IBM Maximo, or similar enterprise project management/ERP systems.</p> <p>We therefore request OIL to amend the clause to read as:</p> <p>"...must include integration with at least 01 Enterprise Project Planning or ERP/enterprise system, such as Primavera P6/Microsoft Project/SAP/Oracle EBS/Oracle Fusion/MS Dynamics/IBM Maximo or equivalent."</p>                                                                                                                                                         | BEC clause shall prevail. |

## **ANNEXURE-I**

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| 302. | BEC | <p>(a) Contract document/Letter of Intent (LOI)/Letter of Award (LOA)/Work Order/Work Order/Service Order showing detailed scope of work AND</p> <p>(b) Job Completion Certificate (JCC) or Service Entry Sheet (SES) or Certificate of Payment (COP) issued by the Client and supported by Client's certified Job Report</p>                                                                                               | <p>As per our understanding, in addition to the Contract document/LOI/LOA/Work Order/Service Order (as required under BEC Clause 3.1 Note A(a)), the bidder may submit a Go-Live Certificate, Phase Completion Certificate, or Operational Acceptance Certificate issued by the client.</p> <p>We request OIL to confirm this understanding and, if acceptable, to amend Note A(b) accordingly to include Go-Live Certificates, Phase Completion Certificates, or Operational Acceptance Certificates as valid documentary evidence of experience.</p>                                                | <p>Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 303. | BEC | <p>F) Work executed by a bidder for its own organization/parent subsidiary/cosubsidiary/sister-subsubsidiary/Joint Venture cannot be considered as experience for the purpose of meeting BEC.</p>                                                                                                                                                                                                                           | <p>BEC Clause 3.1 Note F explicitly excludes work executed by a bidder for its own organisation, parent, subsidiary, co-subsidiary, sister-subsidiary, or Joint Venture. The clause does not mention 'consortium'. We seek OIL's confirmation that work successfully executed by a bidder as a consortium member is not excluded under Note F and may be considered towards meeting the experience criteria under BEC Clause 3.1.</p> <p>We request OIL to confirm this understanding.</p>                                                                                                            | <p>In case of a consortium, where specific responsibilities/scope of work are executed by individual consortium members, a consortium member may claim the experience pertaining to the scope of work executed by it. Such experience may be considered for meeting the BEC criteria, provided that the bidder is able to establish that the scope of work so executed by the bidder is commensurate with the requisite experience specified under BEC Clause 3.1. The bidder shall submit all relevant documentary evidence as stipulated under the Notes to BEC Clause 3.1 in support of the experience so claimed.</p> <p>However, it is to note that the experience of work executed by the bidder for another consortium member shall not be considered for the purpose of meeting the BEC criteria.</p> |
| 304. | BEC | <p>BID FROM JOINT VENTURE COMPANY:</p> <p>(i) In case the bidder is a Joint Venture Company, they must be registered in India and incorporated under the Companies Act 1956/Companies Act 2013/Limited Liability Partnership Act 2008 and any amendment thereunder and shall comply to Clause No. 2.0 above. They should meet the technical qualification requirements as under:</p> <p>A. The JV on its own shall meet</p> | <p>We note that Clause 3.0 allows participation only through an incorporated JV Company. Since formation of a JV company is a time-consuming legal process and is often undertaken after contract award, while consortium bidding is a widely accepted industry practice at the tendering stage, we request that bids from a consortium of eligible entities be permitted in lieu of an incorporated JV company. The consortium may submit a duly executed consortium agreement, and the qualification criteria applicable to JV companies may be extended to consortium members. Kindly confirm.</p> | <p>Not acceptable. Tender conditions shall prevail.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## ANNEXURE-I

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|      |     | the experience criteria as per Clause No. 3.1. or<br>B. Any member of the JV having a stake of at least 26% in the JV, on its own shall meet experience requirement as per Clause No. 3.1.                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |
| 305. | BEC | Award criteria: The Company will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily | <p>The tender currently adopts a Least Cost Selection (L-1) methodology for award. We request OIL to consider adopting a Quality and Cost-Based Selection (QCBS) methodology, which assigns weightage to both technical quality and commercial pricing (e.g., 70:30 or 60:40 Technical:Financial ratio).</p> <p>The rationale for this request is as follows:<br/>(a) The scope involves design, development, deployment and long-term support of a complex AI-driven solution requiring specialised domain expertise. Under a pure L-1 approach, technically superior but marginally higher-priced bids may be eliminated, which could adversely impact solution quality and long-term project outcomes.<br/>(b) QCBS is widely adopted by World Bank, ADB, and Government of India (NITI Aayog, MeitY) guidelines for technology and consulting services, and is better suited to engagements where quality of delivery is critical.</p> <p>We therefore request OIL to amend Clause 24.1 to adopt a QCBS-based evaluation, or alternatively to introduce a minimum qualifying technical score threshold before financial bids are compared on an L-1 basis.</p> | Not acceptable. |
| 306. | SOW | d. Source Code and Artefacts:<br>• Complete handover of source code, scripts, configurations, data models, ETL jobs, AI/ML pipelines, model artefacts                                                                                                                                                | As per our understanding Bidder can propose COTS product for AN AI DRIVEN PROJECT PERFORMANCE MONITORING SOLUTION. In that case the IPR and source code of such COTS products and proprietary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Aligned.        |

## ANNEXURE-I

|      |     |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|      |     | and CI/CD definitions developed under this contract.                                                | software platforms shall remain with the bidder or the respective OEMs. IPR of the functionality/services specifically developed for OIL will lie with OIL. Kindly confirm our understanding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 307. | SOW | The Bidder shall, at a minimum, provide the key roles, with responsibilities and minimum experience | As per our understanding, the key resources may be deployed in an onsite/offsite hybrid model. Resources may primarily work offsite and visit OIL's premises at Duliajan and other project locations as and when required for activities such as requirement workshops, system integration testing, UAT support, go-live, hypercare, and review meetings, as mutually agreed with OIL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Implementation phase should be all on-site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 308. | SOW | Document ingestion (EPC/Contrator Reports, Hydrotest, Machine Reports) incl. OCR                    | <p>We request OIL to provide the following information for accurate pricing of BOQ Item No. 140 (Document Ingestion incl. OCR):</p> <p>(a) Approximate volume of legacy/historical documents to be ingested — including estimated number of documents and total page count (or data volume in GB) for each document type (EPC/Contractor Reports, Hydrotest Reports, Machine Reports, etc.);</p> <p>(b) Confirmation of whether physical scanning and digitisation of hard-copy/paper documents is not within the scope of the bidder, OIL will provide pre-scanned digital files (PDF/image format) for OCR processing;</p> <p>(c) The expected quality/resolution of documents to be processed (e.g., scanned PDFs, image-only PDFs, or searchable PDFs); and</p> <p>(d) Whether ongoing document ingestion during the M&amp;S phase is to be priced separately or included within the lumpsum of Item 140.</p> <p>Clarity on the above will enable bidders to price this item accurately and avoid ambiguity during contract execution.</p> | <p>Historical data related to Primavera is around 12 GB and anticipated data for the same will be around 20-25 GBs (+/- 10%).</p> <p>Tentative availability of data ~ 5 yrs</p> <p>Indicative counts: active/planned projects: 40 nos. WBS/Activity: 800 to 4000 per project. To be finalized during implementation phase.</p> <p>Roughly on an average 500 to 1500 nos. of documents per projects based on size and complexity of the project. No. of pages per document varies in the range 2 - 150 pages.</p> <p>(c) Most of the documents are in a structured format. Approx. 15% documents per project may be requiring OCR.</p> <p>Rest can be discussed during discovery phase.</p> |
| 309. | SOW | Helps determine the functional scope, integration complexity and                                    | Please provide an overview of the key business operations/functionalities, processes and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | To be detailed during discovery phase.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## **ANNEXURE-I**

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|      |     | level of business/process understanding required for each source system.                                                          | activities currently carried out/supported by each of the identified source systems (e.g., Primavera, ERP/Finance, Engineering applications, GIS, Contract Management, etc.).                                                                                                            |                                                                                                                                                                                                                                  |
| 310. | SOW | Critical for application, database, dashboard and infrastructure sizing.                                                          | Please provide the estimated number of projects that will be onboarded initially and the expected number of active projects during the contract period, along with the expected annual growth in the project portfolio.                                                                  | Indicative counts: active/planned projects: 40 nos. WBS/Activity: 800 to 4000 per project. To be finalized during implementation phase.                                                                                          |
| 311. | SOW | Required for estimating data storage, processing, ETL/ELT pipeline capacity, historical data migration and infrastructure sizing. | Where possible, please provide the approximate data volume, historical data period, data granularity and update frequency for each dataset.                                                                                                                                              | ~12 GB. Actuals to be provided during discovery phase.                                                                                                                                                                           |
| 312. | SOW | Required to estimate data mapping, transformation, data modelling, pipeline development and integration effort.                   | Please provide the list of datasets/data entities and key attributes required to be extracted from each source system for project performance monitoring, analytics, reporting and AI/ML use cases.                                                                                      | Indicative datasets: projects, WBS, activities, milestones, baselines, progress, resources, budgets, actuals, commitments, forecasts, risks, issues, contracts, GIS data and documents. Final fields to be frozen during design. |
| 313. | SOW | Required for application sizing, IAM/RBAC, licensing and performance estimation.                                                  | Please provide the approximate number of users expected to access the solution, categorized by user role such as Senior Management, Project Managers/Planners, Engineering, Finance/Contract teams and other users. Also indicate expected active daily users and peak concurrent users. | Active users 50, the remaining details to be provided during discovery.                                                                                                                                                          |
| 314. | SOW | Helps estimate RBAC/data-level security and application hierarchy.                                                                | Please clarify the expected number of organizational departments/functions, project locations and business units that will use the solution and whether users will require access based on department, project, asset, location or other organizational hierarchy.                       | Access should support role, department, project, asset/location and hierarchy-based controls. Final org structure and access model to be approved during design.                                                                 |
| 315. | SOW | Dashboard/report development can become a significant application effort.                                                         | Please provide the expected number of dashboards and reports required for each user category/role, including the number of standard dashboards/reports and the expected extent of customization.                                                                                         | Role-wise dashboards are required for management, PM/planning, engineering and finance/contracts. Exact dashboard/report count to be finalized during design.                                                                    |
| 316. | SOW | Determines whether we need a configurable KPI framework versus hard-coded dashboards.                                             | Please provide the expected number of KPIs/metrics to be configured initially and indicate whether additional KPIs are expected to be added/configured.                                                                                                                                  | Initial KPIs to include CPI, SPI, cost/schedule variance, milestones, resources, forecast delay/overrun and risk scores. Additional KPIs to be aligned during design phase.                                                      |

## **ANNEXURE-I**

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| 317. | SOW | The RFP mentions issue/action tracking but does not fully define workflow complexity.                                                                                                                   | Please clarify the expected workflow for project issues, risks, alerts, actions and management interventions, including whether the solution is expected to support creation, assignment, escalation, approval, closure and audit trail of such items.                                                                                                    | Solution should support alert/risk/issue/action creation, assignment, escalation, closure and audit trail. Final workflow to be agreed during design phase. |
| 318. | SOW | What-if simulation can range from simple parameter-based analysis to complex optimization. The RFP currently only specifies examples such as resource changes, resequencing and constraints.            | Please provide details of the expected "what-if" simulation use cases and whether the bidder is expected to develop a custom simulation/optimization engine or integrate with any existing project planning/simulation tools used by OIL.                                                                                                                 | What-if should cover resource, sequence and constraint changes with time/cost impact. Scenario re-forecasting is baseline. Custom simulation engine.        |
| 319. | SOW | GIS can significantly change application/UI architecture and effort.                                                                                                                                    | Please clarify whether the solution is expected to provide GIS/map-based visualization and spatial analytics within the application or only consume GIS information as contextual data.                                                                                                                                                                   | GIS should be used for map-based visualization/context. Advanced spatial analytics or field validation is not included.                                     |
| 320. | SOW | RFP mentions SSO, MFA and RBAC but detailed integration expectations need confirmation.                                                                                                                 | Please clarify whether SSO is expected to be integrated with OIL's existing Azure AD/Identity Provider and whether any existing IAM/RBAC framework or user directory services are available for integration.                                                                                                                                              | SSO to integrate with OIL Azure AD/IdP. RBAC, MFA, audit logs and data-level access control should be supported.                                            |
| 321. | SOW | API development, gateway, security and performance sizing.                                                                                                                                              | Please clarify whether OIL expects the solution to expose APIs for consumption by other OIL applications and, if so, provide the expected number and broad categories of APIs/use cases.                                                                                                                                                                  | To be provided during discovery.                                                                                                                            |
| 322. | SOW | Very useful for estimating the actual presentation/reporting workload rather than assuming generic dashboards.                                                                                          | Please provide representative samples of existing project review formats, management dashboards, MIS reports and governance/review decks currently used by OIL, wherever available.                                                                                                                                                                       | OIL may share sample MIS/review decks/report formats during Discovery, subject to confidentiality.                                                          |
| 323. | SOW | Critical for estimating cloud/infrastructure cost across Development, Test/UAT, Production, DR and Sandbox environments, including compute, storage, networking, security, backup and HA/DR components. | Please clarify the infrastructure responsibility and costing model for the proposed solution. Whether the bidder is expected to provision and bear the cost of infrastructure/cloud resources for Development, Test/UAT, Production, DR and Sandbox environments, or whether any of these environments/infrastructure components will be provided by OIL. | Bidder to cost required Dev, SIT/UAT, Production, DR and Sandbox environments.                                                                              |

## **ANNEXURE-I**

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| 324. | SOW | This is directly related to mobilization of resources and hence has financial impact. Kindly clarify the training and knowledge transfer scope. | Page no. 25 of 26, Clause no. 6 "60 users (20 users X 3 batches per week) per year." Kindly Clarify -<br>1. is this training related to one-time activity in every year?<br>2. in Schedule of rates Section F. in Training Charges head, 3 nos. of sessions are asked. Shall we consider one session of 20 users?<br>3. shall we quote price for one session?<br>3. what will be the mode of training? online or offline? | Training to be considered as 3 sessions/batches of 20 users each, totaling 60 users per year. Recurring training costs to be incorporated during and post implementation. Offline mode at Duliajan.                                                                                                                                                               |
| 325. | SOW | Integration with Primavera, SAP ERP & Engineering Tools                                                                                         | The SOW mentions integration with Primavera, SAP ERP, and engineering tools (HYSYS, CAESAR, PVElite, GIS, etc.). Please clarify which of these systems are currently live and accessible at OIL, and which are 'as and when procured'. Can OIL provide a list of active systems with their versions and available API/connectivity options (e.g., REST, JDBC, flat-file exports) during the bidding stage?                | Primavera is currently in use and Aspen HYSYS, Pipesim, OLGA, Flaresim, Fathom, HTRI, CAESAR, PVElite, ERP and GIS as integration target. During bid, bidders must inventory relevant systems, versions and integration mechanisms. Exact live/planned tool status will be identified during discovery with OIL. All components should be considered during bids. |
| 326. | SOW | Historical Project Data Availability for AI/ML Training                                                                                         | The SOW requires AI/ML model training on historical project data but states that the minimum historical data period and number of completed projects will be confirmed during discovery. Can OIL provide indicative figures (e.g., number of completed projects, years of data in Primavera and SAP) to enable bidders to size the solution and make realistic training-data assumptions at the bidding stage?            | ~5 Yrs, ~12 GB actual will be provided during discovery.                                                                                                                                                                                                                                                                                                          |
| 327. | SOW | Cloud Deployment Preference & Azure Landing Zone Responsibility                                                                                 | The SOW permits MeitY-empanelled public cloud and references OIL's existing Azure landing zone. Please confirm: (a) whether OIL has a preference for SaaS vs. on-premise deployment; (b) whether the Azure landing zone is already provisioned and accessible for this solution; and (c) who bears the cost of the Azure landing zone infrastructure itself.                                                              | OIL permits OIL-approved infrastructure/SaaS/MeitY-empanelled public cloud. OIL's Azure landing zone is referenced for secure routing. Bidder shall cost required cloud/security/connectivity components for its proposed model; OIL-side Azure details will be shared during Discovery.                                                                          |
| 328. | SOW | Minimum Acceptable Model Accuracy Thresholds for UAT                                                                                            | The SOW lists schedule forecasting, cost overrun prediction, resource bottleneck detection, and 'what-if' simulation as required capabilities. Please clarify the minimum                                                                                                                                                                                                                                                 | Accuracy will be defined use-case-wise during AI/ML design. Forecasting may use MAE/RMSE/MAPE; classification/risk models may use accuracy, precision, recall or F1. The UAT threshold and validation dataset will be agreed with OIL before model acceptance.                                                                                                    |

## **ANNEXURE-I**

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|      |     |                                                                    | acceptable model accuracy thresholds expected during UAT (e.g., MAPE tolerance for cost-at-completion forecasts), as this significantly affects model design and validation effort.                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
| 329. | SOW | Number of Licensed Users by Role for BOQ Sizing                    | The SOW refers to both named-user and concurrent-user licensing. Please provide the approximate number of users by role (senior management, project managers, planners, engineers, finance/contracts) to allow bidders to size licensing costs accurately in the BOQ.                                                                                                            | The role distribution matrix to be provided during discovery, 50 users, 30% concurrent.                                                                                                                                                                                                                       |
| 330. | SOW | Source Code Handover Scope for Third-Party Commercial Components   | The SOW mandates full handover of source code, AI/ML model artefacts, ETL pipelines, and CI/CD definitions to OIL with perpetual, royalty-free usage rights. Please clarify whether this obligation extends to third-party commercial components (e.g., licensed BI tools, cloud AI services) embedded within the solution, where full source code transfer may not be feasible. | Source-code handover applies to OIL-specific custom artefacts, ETL, configurations, dashboards, integrations and trained model artefacts. It does not extend to third-party/OEM commercial products, cloud services or bidder's pre-existing IP, which will remain under standard licence/subscription terms. |
| 331. | SOW | Draft SLA Document with Uptime, Response Times & Penalty Structure | The SOW mentions a 60-month M&S period (including 3 months of Hypercare). Please provide the draft SLA document with defined uptime targets, response and resolution times by severity, and penalty/rebate structure, so bidders can accurately price the support phase.                                                                                                         | SLA details are already provided in the tender, including 99.95% uptime, P1-P5 response/resolution targets and penalty structure.                                                                                                                                                                             |
| 332. | SOW | Local Content Calculation Methodology for SaaS/Cloud Solutions     | The eligibility clause mandates ≥20% local content. Please clarify how local content will be calculated for a SaaS/cloud-hosted solution where a significant portion of cost may be cloud platform subscriptions (e.g., Azure, AWS) or licensed software from foreign OEMs.                                                                                                      | Local Content shall be calculated as per tender/BEC and applicable PPP-MII provisions. Bidder should provide LC breakup covering India-based services/value addition and separately identify third-party/cloud/OEM licence components.                                                                        |
| 333. | SOW | On-site vs. Remote Deployment of Key Personnel                     | The SOW specifies key roles such as Project Manager, AI/ML Lead, and Data Engineering Lead with minimum experience criteria. Please confirm whether all key personnel are required to be physically deployed at OIL's Duliajan office, or whether hybrid/remote working arrangements are permissible during the implementation phase.                                            | All resources should be Continuously physically present at Duliajan during implementation.                                                                                                                                                                                                                    |
| 334. | SOW | General                                                            | Confirm whether the solution is to be considered as web-based application only, or                                                                                                                                                                                                                                                                                               | Native mobile app is also required in addition to the web-based application.                                                                                                                                                                                                                                  |

## **ANNEXURE-I**

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|      |     |                                                                                                                                       | whether Native Mobile (Android & iOS) application access is also required                                                                                                                                                                      |                                                                                                                                                 |
| 335. |     | General                                                                                                                               | Confirm list of user role and hierarchy for respective modules                                                                                                                                                                                 | To be confirmed during discovery.                                                                                                               |
| 336. |     | General                                                                                                                               | Confirm if Multilingual Support is required - English will be the default language across the application                                                                                                                                      | English.                                                                                                                                        |
| 337. |     | Regarding Data migration from legacy system for model training and analytics - Please find the below queries,                         | Confirm total volume of data to be migrated?                                                                                                                                                                                                   | ~12 GB. Actuals to be provided during discovery phase.                                                                                          |
| 338. |     |                                                                                                                                       | Confirm the number of years of historical data need to be migrated?                                                                                                                                                                            | To be confirmed during discovery.                                                                                                               |
| 339. |     |                                                                                                                                       | What is the estimated number of records to be migrated?                                                                                                                                                                                        | To be confirmed during discovery.                                                                                                               |
| 340. |     |                                                                                                                                       | Confirm if there are any document/attachments to be migrated. If so, confirm volume of documents and format along with average file size                                                                                                       | To be confirmed during discovery.                                                                                                               |
| 341. |     | Confirm user related queries as:                                                                                                      | Total number of internal users                                                                                                                                                                                                                 | 50 users, 30% concurrent.                                                                                                                       |
| 342. |     |                                                                                                                                       | Total number of external users                                                                                                                                                                                                                 | Only OIL users.                                                                                                                                 |
| 343. |     |                                                                                                                                       | Future scope for additional users                                                                                                                                                                                                              | The users will be provided and finalized during discovery, revision if any will be considered as a case-by-case requirement as ordained by OIL. |
| 344. |     |                                                                                                                                       | Total concurrent users                                                                                                                                                                                                                         | 50 users, 30% concurrent.                                                                                                                       |
| 345  | BEC | In support of the experience criteria under Clause No. 3.1 above, the bidder shall furnish the following documentary evidence:        | We request the acceptance of a certificate issued by the Statutory Auditor/Chartered Accountant (CA/SA), certifying the required project details, in lieu of client-issued Work Order/Purchase order and completion or execution certificates. | Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria.                |
| 346  |     | (a) Contract document/Letter of Intent (LOI)/Letter of Award (LOA)/Work Order/Work Order/Service Order showing detailed scope of work |                                                                                                                                                                                                                                                |                                                                                                                                                 |
| 347  |     | AND                                                                                                                                   | This request is due to NDAs and confidentiality obligations that restrict the sharing of such documents.                                                                                                                                       |                                                                                                                                                 |

## **ANNEXURE-I**

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| 348 |     | (b) Job Completion Certificate (JCC) or Service Entry Sheet (SES) or Certificate of Payment (COP) issued by the Client and supported by Client's certified Job Report showing the following:                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| 349 |     | (i) Work Order No./Contract No.,                                                                                                                                                                                                                                                                 | "Bidder has to submit letter/certificate, certifying all the required information, issued by CEO/CFO/Authorized Signatory of the bidder, with an endorsement by Chartered Accountant/ Statutory Auditor/Certified Public Accountant (not being an employee or a Director or not having any interest in the bidder company/firm). The endorsement by Chartered Accountant/Statutory Auditor/Certified Public Accountant should clearly specify their UDIN as well." |                                        |
| 350 |     | (ii) Nature/Number/Description of jobs done, and                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| 351 |     | (iii) Contract period and date of completion.                                                                                                                                                                                                                                                    | (Please refer to above clause from GeM bid number GEM/2026/B/7408393 of Indian Oil Corporation Limited which got submitted recently for your kind consideration)                                                                                                                                                                                                                                                                                                   |                                        |
| 352 | SOW | <ul style="list-style-type: none"> <li>SOW 1(a): The Solution shall integrate with OIL's existing project-planning tools, including Primavera, engineering applications, GIS, EPC/Contractor reports, Hydrotest/Machine reports, contract-management and relevant enterprise systems.</li> </ul> | Please share OIL's current "as-is" architecture across project-management, ERP, engineering, GIS, IoT/SCADA/telemetry, maintenance, safety, reporting and analytics systems, specifically:                                                                                                                                                                                                                                                                         | Will be shared during discovery phase. |
| 353 |     |                                                                                                                                                                                                                                                                                                  | a) Architecture diagrams, systems of record, and hosting environments (on-premises/cloud/hybrid)                                                                                                                                                                                                                                                                                                                                                                   |                                        |
| 354 |     |                                                                                                                                                                                                                                                                                                  | b) Data flows, integration methods and interface frequencies between these systems                                                                                                                                                                                                                                                                                                                                                                                 |                                        |
| 355 |     |                                                                                                                                                                                                                                                                                                  | c) Security boundaries and the existing level of integration between siloed systems                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| 356 |     | <ul style="list-style-type: none"> <li>SOW 3.1(b): Consolidate and manage project-performance data</li> </ul>                                                                                                                                                                                    | Please describe OIL's current data architecture and platform strategy, specifically:                                                                                                                                                                                                                                                                                                                                                                               | Will be shared during discovery phase. |

## ANNEXURE-I

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|      |  | into a unified performance data layer.                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| 357  |  | <ul style="list-style-type: none"> <li>• SOW 3.3 defines data-ingestion, data-storage/data-warehouse/data-lake, analytics/AI-engine and presentation layers, and requires data warehouse/lakehouse, historical-storage, retention/purge, metadata and master-data-management capabilities.</li> </ul> | a) Data lakes, lakehouses, warehouses, operational data stores, streaming platforms and reporting layers in use today                                                                                                                                                                             |                                                                                                                           |
| 358  |  | <ul style="list-style-type: none"> <li>• SOW 3.4 covers data modelling, quality, lineage/metadata, lifecycle, ownership and stewardship.</li> </ul>                                                                                                                                                   | b) How master data, common project identifiers, data quality, metadata, lineage, catalogue, retention and access governance are currently managed                                                                                                                                                 |                                                                                                                           |
| 359  |  |                                                                                                                                                                                                                                                                                                       | c) Whether the bidder is expected to use an existing unified data platform, or establish one as part of this solution                                                                                                                                                                             |                                                                                                                           |
| 360  |  | <ul style="list-style-type: none"> <li>• SOW 2.1(c) states that monitoring is largely focused on past/current variance rather than early prediction, with limited systematic analysis of historical project data.</li> </ul>                                                                          | Please provide an overview of the AI/ML prediction, monitoring and closed-loop solutions currently operating within OIL — particularly for project monitoring, asset maintenance, defect detection, leak/hazardous-material prevention, operational safety and telemetry analysis — specifically: | No such solution exists for Project performance monitoring.                                                               |
| 361. |  | <ul style="list-style-type: none"> <li>• SOW 2.2(b) requires use of historical and in-progress data to predict schedule slippages, cost overruns, resource bottlenecks and high-risk tasks, with early warnings and underlying drivers.</li> </ul>                                                    | a) Business purpose, technical framework and deployment environment of each solution                                                                                                                                                                                                              | Will be shared during discovery phase.                                                                                    |
| 362. |  |                                                                                                                                                                                                                                                                                                       | b) Model ownership and maturity level                                                                                                                                                                                                                                                             |                                                                                                                           |
| 363. |  |                                                                                                                                                                                                                                                                                                       | c) Integration with other enterprise or operational systems                                                                                                                                                                                                                                       |                                                                                                                           |
| 364. |  | <ul style="list-style-type: none"> <li>• SOW 3.3 requires an AI/ML platform and services, predictive-analytics engines, forecasting models, and model-governance,</li> </ul>                                                                                                                          | Please identify the current cloud, on-premises and hybrid platforms used for data engineering, AI/ML development, model deployment and monitoring. Please also share details of the                                                                                                               | MS Azure cloud is utilized across organization alongside IT data centre. Details can be discussed during discovery phase. |

## **ANNEXURE-I**

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|      |  | explainability and auditability features.                                                                                                                                                                                                                        | applicable MLOps tools and frameworks — pipeline orchestration, feature management, model registry, versioning, deployment, monitoring, drift detection, retraining and auditability — and confirm whether any of these platforms or services are mandated for the proposed solution.                                             |                                                                                         |
| 365. |  | • SOW 3.7 requires a model registry with versioning/rollback and production monitoring for data drift and prediction-quality proxy indicators.                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |                                                                                         |
| 366. |  | • Post-Go-Live support includes model-drift monitoring and re-training cycles.                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                   |                                                                                         |
| 367. |  | • SOW 3.2 requires models to forecast completion dates and cost at completion; predict the probability and magnitude of schedule delays/cost overruns; and identify high-risk tasks, interfaces, contractors and locations.                                      | Please confirm whether OIL has already identified the priority AI/ML use cases and corresponding data/model pipelines, or whether bidders are expected to propose and prioritize the top five use cases based on their expected impact on OIL's business KPIs.                                                                    | Refer SOW, will be shared during discovery phase.                                       |
| 368. |  | • SOW 3.7 identifies baseline models for schedule delay, cost overrun and high-risk activities/segments.                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                   |                                                                                         |
| 369. |  | • SOW 3.2 requires initial bulk load and incremental updates (daily/near-real-time as agreed), and batch/scheduled/near-real-time synchronisation for each source, with frequency, latency, reconciliation and conflict-resolution rules approved during design. | For data flowing from source systems (SCADA/IoT, ERP, GIS, project-management and maintenance systems) into the lakehouse/data platform, please clarify the ingestion patterns (batch vs. streaming), frequency, protocols/connectors used, and which team is currently responsible for building and maintaining these pipelines. | Batch processing happens, refer SOW for details. Will be shared during discovery phase. |
| 370. |  | • SOW 3.3 supports REST, SOAP, ODBC/JDBC, SFTP/file drops and approved vendor-specific connectors.                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                   |                                                                                         |
| 371. |  | • SOW 3.2 requires creation of a unified project-performance data model and semantic layer.                                                                                                                                                                      | Please describe the layering/zoning strategy within the lakehouse (e.g., raw/bronze, curated/silver, business/gold), how AI/ML pipelines and feature-engineering workflows currently consume data from these layers, and                                                                                                          | Will be shared during discovery phase.                                                  |
| 372. |  | • SOW 3.3 defines a multi-tier architecture comprising data-ingestion, data-storage/data-                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                   |                                                                                         |

## ANNEXURE-I

|      |     |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                       |                                        |
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|      |     | warehouse/data-lake, analytics/AI-engine and presentation layers.                                                                                                                                                                           | whether a feature store or a semantic/serving layer exists for reuse across models.                                                                                                                                                                                   |                                        |
| 373. | SCC | <ul style="list-style-type: none"> <li>• SCC 1.6 includes handover of model artefacts, feature stores and training pipelines.</li> </ul>                                                                                                    |                                                                                                                                                                                                                                                                       |                                        |
| 374. | SOW | <ul style="list-style-type: none"> <li>• SOW 3.2 requires historical-data completeness and usability to be validated through agreed profiling and quality benchmarks, with configurable validation and error-handling workflows.</li> </ul> | Please clarify how data quality is validated at each stage — source system to lakehouse to AI/ML feature pipeline — who owns data-quality rules and remediation, and how data contracts/SLAs are enforced between source-system owners and the data/AI platform team. | Will be shared during discovery phase. |
| 375. |     | <ul style="list-style-type: none"> <li>• SOW 3.4 requires validation rules at ingestion/processing, exception handling, data-quality reports and remediation workflows.</li> </ul>                                                          |                                                                                                                                                                                                                                                                       |                                        |
| 376. |     | <ul style="list-style-type: none"> <li>• SOW 3.7 requires completeness, referential-integrity and basic business-rule checks.</li> </ul>                                                                                                    |                                                                                                                                                                                                                                                                       |                                        |
| 377. |     | <ul style="list-style-type: none"> <li>• Each integrated source system shall remain the authoritative System of Record for its respective data domain.</li> </ul>                                                                           | Please clarify whether OIL follows a centralized data-platform ownership model or a federated/data-mesh model across business domains, and how self-serve access to curated data is provided to downstream AI/ML and analytics teams.                                 | Will be shared during discovery phase. |
| 378. |     | <ul style="list-style-type: none"> <li>• All data generated, ingested, processed or derived within the Solution shall be the exclusive property of OIL, and master-data harmonisation shall be governed jointly with OIL.</li> </ul>        |                                                                                                                                                                                                                                                                       |                                        |

## **ANNEXURE-I**

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| 379. |  | <ul style="list-style-type: none"> <li>• SOW 3.4(e) requires data-owner and steward responsibilities to be finalised jointly with OIL.</li> </ul>                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                           |
| 380. |  | <ul style="list-style-type: none"> <li>• The Solution shall support ingestion and use of historical project data for model training and analytics; the minimum history and number of completed projects are to be confirmed during discovery.</li> </ul> | <p>Please confirm the type, volume, granularity and number of years of historical data available for AI/ML model development, including schedule, cost, progress, resource, risk, procurement, contractor, telemetry and final project-outcome data. Please also identify known gaps in data completeness, quality, consistency or labelling and clarify responsibility for data extraction, cleansing, standardization, mapping and business validation.</p>                                         | <p>Historical data is around 10-12 GB and in multiple formats. Will be shared during discovery phase.</p> |
| 381. |  | <ul style="list-style-type: none"> <li>• SOW 3.7 requires data profiling for volume, quality, granularity and history.</li> </ul>                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                           |
| 382. |  | <ul style="list-style-type: none"> <li>• Under SOW 7, OIL will provide historical cost, schedule, resource, procurement, engineering and contractor-progress datasets required to train AI models.</li> </ul>                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                           |
| 383. |  | <ul style="list-style-type: none"> <li>• SOW 3.1(c) requires AI/ML-based analytics, early warnings and optimization recommendations.</li> </ul>                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                           |
| 384. |  | <ul style="list-style-type: none"> <li>• SOW 3.5 states that models shall be callable through dashboards, APIs or batch jobs.</li> </ul>                                                                                                                 | <p>Please clarify OIL's expected scope and roadmap for Generative AI and agentic capabilities within this engagement. This may include natural-language querying, executive or project-status summarization, document and EPC-report analysis, user chatbots, technical-assistance copilots, recommended corrective actions or workflow agents. Please confirm whether any autonomous or closed-loop actions are envisaged, the required human-in-the-loop approvals and safety controls, and the</p> | <p>Refer SOW. Will be shared during discovery phase.</p>                                                  |
| 385. |  | <ul style="list-style-type: none"> <li>• SOW 8 includes predictive/prescriptive insights and scenario-based recommendations.</li> </ul>                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                           |

## **ANNEXURE-I**

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| 386. |     | <ul style="list-style-type: none"> <li>The RFP does not separately define Generative-AI or agentic-AI capabilities.</li> </ul>                                                               | applicable restrictions concerning model hosting, external APIs, data privacy, security and India data residency.                                                                                                                                                                                                                                                                                                                                                                                      |                                                   |
| 387. |     | <ul style="list-style-type: none"> <li>SOW 3.2 requires explainable outputs identifying the drivers behind each prediction.</li> </ul>                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
| 388. |     | <ul style="list-style-type: none"> <li>SOW 3.3 requires model-governance, explainability and auditability features and comprehensive logs for model deployments and data changes.</li> </ul> | Please clarify OIL's Responsible AI and model-governance requirements, including model approval authorities, explainability standards, bias and fairness assessment, risk classification, validation and review frequency, audit trails, human oversight, regulatory or internal compliance requirements and any AI use cases or model types that are restricted or prohibited.                                                                                                                        | Will be shared during discovery phase.            |
| 389. | SCC | <ul style="list-style-type: none"> <li>SCC 1.3 permits audit of training datasets, features, parameters, validation/back-testing, drift and retraining records.</li> </ul>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
| 390. |     | <ul style="list-style-type: none"> <li>SOW 5.34 requires session logs, including reasons for overriding tool recommendations.</li> </ul>                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
| 391. |     | <ul style="list-style-type: none"> <li>SOW 3.2 requires configurable alerts/notifications and issue/action tracking.</li> </ul>                                                              | Please define how AI/ML predictions and recommendations are expected to be operationalized within OIL's business processes. Please clarify whether inference is required in real time, near-real time, batch or on demand; the expected scoring volumes and response times; how predictions should be delivered through dashboards, alerts, APIs or source-system write-back; and how user feedback, corrective actions and actual outcomes will be captured to create a closed-loop learning process. | Will be shared during discovery phase.            |
| 392. |     | <ul style="list-style-type: none"> <li>SOW 3.5 states that models shall be callable through dashboards, APIs or batch jobs.</li> </ul>                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
| 393. |     | <ul style="list-style-type: none"> <li>SOW 3.7 requires performance testing of AI inference under typical loads.</li> </ul>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
| 394. | SOW | <ul style="list-style-type: none"> <li>SOW 5.34 requires logs of user/system activity and reasons for recommendation overrides.</li> </ul>                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
| 395. |     | <ul style="list-style-type: none"> <li>SCC 3.5 includes model refinement, tuning and re-training during Hypercare.</li> </ul>                                                                | Please clarify the expected model-lifecycle and support responsibilities after Go-Live, including production monitoring, performance and drift thresholds, retraining triggers and frequency, model recalibration, rollback, revalidation, adaptation to changes in source data or business KPIs and development of additional models during the three-month hypercare and 60-month support period. Please also specify whether any annual or monthly effort limits apply to AI/ML enhancements.       | Refer SOW. Will be shared during discovery phase. |
| 396. |     | <ul style="list-style-type: none"> <li>SOW 3.7 requires model registry, versioning, rollback and production monitoring.</li> </ul>                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
| 397. |     | <ul style="list-style-type: none"> <li>Post-Go-Live activities include fine-tuning models, addressing false positives/negatives, and model-drift monitoring and re-</li> </ul>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |

## **ANNEXURE-I**

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|      |  | training cycles during the support period.                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            |
| 398. |  | <ul style="list-style-type: none"> <li>• SOW 3.3 identifies AI-feature licensing, data-storage entitlements and API transaction limits.</li> </ul>                                                                                                                                    | <p>Please clarify the ownership, licensing and handover requirements for AI/ML deliverables, including training and inference code, feature-engineering pipelines, trained models, model artefacts, prompts, embeddings, vector indexes, evaluation datasets, reusable accelerators and technical documentation. Please also confirm whether proprietary, open-source and third-party foundation models are permitted and whether OIL requires full source-code transfer, usage rights or escrow arrangements.</p> | <p>Refer SOW for details (Exit Management section).</p>                                                                                                                    |
| 399. |  | <ul style="list-style-type: none"> <li>• SOW 3.5(d)-(e) requires handover of source code, scripts, data models, ETL jobs, AI/ML pipelines, model artefacts and CI/CD definitions, with perpetual, irrevocable and royalty-free internal use/modify/enhance rights for OIL.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            |
| 400. |  | <ul style="list-style-type: none"> <li>• SCC 1.6 also requires handover of feature stores/training pipelines and no retention of data, models or artefacts after exit.</li> </ul>                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            |
| 401. |  | <ul style="list-style-type: none"> <li>• SOW 3.2 requires acceptable historical back-testing accuracy before production approval.</li> </ul>                                                                                                                                          | <p>Please clarify how success criteria for each AI/ML pipeline/use case will be measured, the accuracy levels achieved in comparable deployments, and the acceptable accuracy/performance threshold OIL expects to be demonstrated during this pilot.</p>                                                                                                                                                                                                                                                          | <p>Refer SOW.</p>                                                                                                                                                          |
| 402. |  | <ul style="list-style-type: none"> <li>• SOW 3.7 specifies evaluation metrics such as MAE/MAPE/RMSE and classification thresholds.</li> </ul>                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            |
| 403. |  | <ul style="list-style-type: none"> <li>• The UAT acceptance criterion states: "Performance of the model should be &gt;80%."</li> </ul>                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            |
| 404. |  | <ul style="list-style-type: none"> <li>• SOW 3.3 requires central monitoring of interface data volumes/latency and sizing assumptions based on projects, WBS elements/activities, historical-data depth, concurrent users and dashboard-refresh patterns.</li> </ul>                  | <p>Please provide source-system-wise data-volume and growth inputs required for solution sizing, including: (a) historical bulk-load size and number of records/files by source; (b) average and peak daily ingestion volumes; (c) telemetry/IoT tag counts and sampling frequencies, where such data is in scope; (d) typical and maximum file sizes for EPC/contractor and engineering documents; and (e) expected annual growth, retention, archival and purge requirements.</p>                                | <p>Historical data is around 10-12 GB and in multiple formats. Will be shared during discovery phase. Expected data for the contract duration can be around 20-25 GBs.</p> |
| 405. |  | <ul style="list-style-type: none"> <li>• SOW 3.7 requires source-wise profiling of volume, quality, granularity and history.</li> </ul>                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            |
| 406. |  | <ul style="list-style-type: none"> <li>• SOW 5 requires sizing of compute, memory, storage and</li> </ul>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                            |

## **ANNEXURE-I**

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|      |     | bandwidth for current workload and expected growth.                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                                          |
| 407. |     | <ul style="list-style-type: none"> <li>• SOW 3.3 NFRs require agreed dashboard-response thresholds and data-ingestion/model-refresh latency.</li> </ul>                                        | Please provide the expected pilot and enterprise workload profile and performance targets, including the number of active/completed projects, WBS elements and activities, concurrent users, dashboard/report refresh frequency, batch-processing windows, AI-inference requests and peak concurrency, target response times/latency, and expected year-on-year workload growth. | Will be shared during discovery phase.                   |
| 408. |     | <ul style="list-style-type: none"> <li>• SOW 3.7 requires performance testing for end-to-end expected data volume, concurrent dashboard usage and AI inference under typical loads.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                  |                                                          |
| 409. |     | <ul style="list-style-type: none"> <li>• SOW 5 requires monitoring and scaling for peak/non-peak user growth and service-level performance.</li> </ul>                                         |                                                                                                                                                                                                                                                                                                                                                                                  |                                                          |
| 410. | SOW | Requirement to store and process solution data across multiple enterprise components.                                                                                                          | Please provide the estimated annual data volume (structured, unstructured, GIS, documents, AI datasets) expected to be stored and processed by component: Primavera Schedule, ERP Data, Engineering Applications, GIS Data, Documents (PDF/Reports), AI Training Data, and Logs/Audit trails.                                                                                    | 12 GB; Component wise to be discussed during discovery.  |
| 411. | SOW | Historical data integration for AI/ML baseline calculations and monitoring.                                                                                                                    | What is the estimated total data volume for historical project data, and how many years of historical project data are currently available?                                                                                                                                                                                                                                      | ~5 Yrs, ~12 GB actual will be provided during discovery. |
| 412. | SOW | AI model training requirements using historical project datasets.                                                                                                                              | 1. How many completed projects are currently available in OIL's database that can be used for AI/ML model training?<br>2. In what formats is the historical project data available (e.g., PDF, Excel, databases, etc.)?<br>Please also clarify whether this data is already cleansed, standardized and structured for AI/ML training.                                            | To be provided during discovery.                         |
| 413. | SOW | System integration and data synchronization requirements across enterprise platforms.                                                                                                          | As per our understanding, integration with existing systems such as ERP and Primavera will be for read-only data ingestion into the proposed solution, without any write-back to the source systems. Kindly confirm whether our understanding is correct.                                                                                                                        | Read-only.                                               |

## **ANNEXURE-I**

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| 414. | SOW | Enterprise-wide deployment of the AI-driven Project Performance Monitoring Solution.                                                              | What are the expected numbers of total registered users and maximum concurrent users across the enterprise?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50 users, 30% concurrent.                                                                                                                                                                                 |
| 415. | SOW | Custom integration with specialized engineering tools (Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR II, PVElite).                   | Please confirm whether OIL will provide API/interface access, technical documentation, required licences and coordination with the respective OEM/vendor for integration with Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR II, PVElite and other third-party systems. Where an API/connector is unavailable, please clarify whether development/procurement of such interface or connector is under OIL's scope or the bidder's scope.                                                                                                                                                                                                                                | OIL will provide available access, credentials and coordination. However, adapters, connectors, integration tools, add-ons shall be bidder's responsibility and included in the offer.                    |
| 416. | SOW | Scope includes 17 advanced AI capabilities (e.g., Schedule Delay Prediction, Cost Overrun Prediction, Explainable AI, Scenario Comparison, etc.). | Please clarify whether all advanced AI capabilities listed in the SOW are required to be fully implemented and production-ready within the 8-month implementation period, or whether some capabilities can be delivered progressively during the M&S period. Please also confirm the acceptance criteria for these AI capabilities.                                                                                                                                                                                                                                                                                                                                                 | Core AI capabilities required for Go-Live should be implemented within the indicated Tender Implementation timelines.                                                                                     |
| 417. | SOW | Project implementation schedule specified as 8 months.                                                                                            | Considering the complexity of custom engineering integrations and custom AI capability development, can OIL extend the implementation timeline from 8 months to 12 months without impacting evaluation criteria?                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Tender terms shall prevail.                                                                                                                                                                               |
| 418. | SOW | Ownership of Source Code and Intellectual Property (IP).                                                                                          | The proposed solution may include an established proprietary software platform with pre-existing source code, frameworks, libraries, algorithms and other background intellectual property. Please clarify how the source-code, artefact-handover and perpetual usage-right requirements are intended to apply in such cases, particularly distinguishing between the bidder's pre-existing proprietary platform/IP and the custom developments, integrations, configurations and AI/ML components developed specifically for OIL under this contract. Please also clarify whether OIL's operational requirements for the proprietary platform may be addressed through appropriate | Source-code/IP handover applies to OIL-specific custom developments, integrations, configurations, ETL, trained models and artefacts. Bidder's pre-existing proprietary platform/IP remains bidder-owned. |

## ANNEXURE-I

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|      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                | perpetual licence/usage rights, while OIL-specific developments and artefacts are handed over as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                            |
| 419. | BEC | Clause 3.1 requires the bidder to have successfully executed/completed at least one qualifying AI-driven project performance monitoring / AI-enabled project controls solution. Clause 3.1.1 Note (b) states that experience of the JV or its member relying on its supporting company/subsidiary/co-subsidiary/sister-subsidiary/parent/holding/affiliate/associate company or technical collaborator shall not be considered for evaluation. | Considering the niche and specialized nature of this technology, we request OIL to consider accepting relevant project experience of the bidder's overseas parent/group companies, where the Indian bidding entity belongs to the same group and has access to the same proprietary platform, products, technology and technical delivery capabilities. This would allow the Indian bidder to demonstrate proven experience already delivered within the same group, while encouraging wider participation and healthy competition. In such cases, kindly clarify the supporting documents required to establish the group relationship and relevant project experience. | Please be guided as per the prevailing clauses as mentioned in the BEC.                                                                                                                                                    |
| 420. | SOW | Clause 3.3 states that the solution shall support deployment on OIL's preferred infrastructure with all data stored within India. Clause 3.3.1 states that the bidder is free to offer a MeitY-empanelled public cloud subscription if required, and notes that OIL has already set up a secure Azure Landing Zone.                                                                                                                            | Please clarify the preferred deployment architecture for the proposed solution. Considering OIL's existing secure Azure Landing Zone, please confirm whether the application may be deployed within OIL's existing Azure environment/subscription, or whether the bidder is expected to provision and manage a separate MeitY-empanelled public cloud environment for the complete contract period. In case deployment within OIL's Azure environment is permitted, please clarify the respective responsibilities of OIL and the bidder for provisioning, infrastructure management, application administration, security configuration and ongoing support.            | Bidder may propose suitable solution, he bidder is expected to provision and manage a separate MeitY-empanelled public cloud environment for the complete contract period with connectivity with OIL's Azure landing zone. |
| 421. | SOW | Subscription / Software Licensing                                                                                                                                                                                                                                                                                                                                                                                                              | Please clarify who will bear the cost of third-party licences and usage charges required during the project, such as Autodesk licences, AI/LLM token charges, external APIs or similar services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Third-party licences, AI/LLM tokens, external APIs, Autodesk/OEM tools and similar usage charges required for bidder's solution shall be bidder's responsibility.                                                          |
| 422. | SOW | Productivity Engineer                                                                                                                                                                                                                                                                                                                                                                                                                          | Please clarify whether the Productivity Engineer has to be available at OIL site for the full 5-year M&S period, or whether remote/hybrid working                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Onsite.                                                                                                                                                                                                                    |

## **ANNEXURE-I**

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|      |        |                                                                                                                                                                                                                                                                                        | is acceptable. Also, we would like to understand the process to replace or rotate the resource with another qualified person during the contract period?                                                                                                                                                                                                                                                         |                                                                                                                                  |
| 423. | SOW    | Manpower Deployment                                                                                                                                                                                                                                                                    | Please clarify whether the manpower roles and numbers mentioned in the SOW are mandatory, or whether the bidder can propose an equivalent manpower structure based on the solution and project requirement.                                                                                                                                                                                                      | Manpower roles/FTEs in SOW are mandatory expectations.                                                                           |
| 424. | BEC    | Pre-Bid Date & Time: 12.08.2026 at 09:00 hrs. Bid End Date & Time: 25.08.2026 at 14:00 hrs.                                                                                                                                                                                            | Considering that the pre-bid conference is scheduled on 12.08.2026 and the clarifications/addendum issued thereafter may have an impact on the technical solution, commercial offer and compliance documentation, kindly consider extending the bid submission date by at least one week to provide sufficient time for bidders to incorporate the final clarifications and submit a complete and compliant bid. | NA.                                                                                                                              |
| 425. | BEC    | The qualifying past project must include integration with at least one Enterprise Project Planning or ERP system such as Primavera P6, Microsoft Project or SAP. Supporting documents include the contract/PO/WO showing detailed scope and client-certified completion/job documents. | In case the required system integration was completed as part of the project but is not specifically mentioned in the original PO/Work Order, please confirm whether a certificate or letter from the client confirming the integration will be accepted as supporting evidence.                                                                                                                                 | Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria. |
| 426. | Tender | Submit participation details and pre-bid queries by 10 August 2026; deviations should be raised before or during pre-bid.                                                                                                                                                              | Confirm that 10 August 2026 is the final date for all pre- bid queries, given the differing date references in the tender.                                                                                                                                                                                                                                                                                       | Last date of receipt of pre-bid queries is 10.08.2026.                                                                           |
| 427. | BEC    | n A valid DPIIT-recognized startup must still meet the experience criterion but is stated to be exempt from the annual turnover criterion.                                                                                                                                             | Please confirm that the BEC startup turnover exemption applies notwithstanding the contrary statement in the GeM bid summary.                                                                                                                                                                                                                                                                                    | Please be guided as per the clauses stipulated in the BEC with reference to startup.                                             |
| 428. | SOW    | Deploy onsite/offsite personnel as required for installation, integration, testing, commissioning, UAT, go-live and                                                                                                                                                                    | Please specify the expected onsite locations, minimum onsite staffing and support coverage for implementation, hypercare and M&S.                                                                                                                                                                                                                                                                                | On-site presence is mandatory.                                                                                                   |

## **ANNEXURE-I**

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|      |     | hypercare across OIL sites/assets PAN-India.                                                                                                                                 |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                              |
| 429. | SOW | Support integration with the listed engineering applications, including HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR and PVELite, as applicable.                     | Please confirm which engineering tools are currently licensed and in the implementation baseline, and treat later-procured tools through change control.                                            | Engineering-tool integration shall apply only for tools available/procured and technically accessible. Final list will be frozen during Discovery.                                                                                                                                                                           |
| 430. | SOW | Ingest EPC/contractor reports, hydrotest and machine reports and other structured/semi-structured documents, including OCR.                                                  | Please confirm document volumes, file formats, languages, quality and annual growth assumptions for OCR sizing.                                                                                     | To be assessed during discovery; Roughly on an average 500 to 1500 nos. of documents per projects based on size and complexity of the project. No. of pages per document varies in the range 2 - 150 pages.<br>(c) Most of the documents are in a structured format. Approx. 15% documents per project may be requiring OCR. |
| 431. | SOW | Support initial historical bulk loads and scheduled/daily/near-real-time incremental ingestion.                                                                              | Please provide the minimum historical period, completed-project count, data volumes and expected refresh latency for each source.                                                                   | To be assessed during discovery, tentative ~5 yrs, ~12 GB.                                                                                                                                                                                                                                                                   |
| 432. | SOW | Provide sizing calculations and assumptions based on project volume, historical depth, users and refresh patterns.                                                           | Please provide baseline quantities for projects, WBS elements, activities, history, concurrent users, dashboard refresh and API volumes.                                                            | To be assessed during discovery.                                                                                                                                                                                                                                                                                             |
| 433. | SOW | Provide mobile accessibility; the payment terms also refer to a field mobile-app subscription.                                                                               | Please confirm whether a native field mobile application is mandatory or whether responsive web/mobile access is acceptable, and specify user quantities.                                           | To be provided during discovery.                                                                                                                                                                                                                                                                                             |
| 434. | SOW | The SLA refers to integration with 95% of project-planning tools with 90% accuracy.                                                                                          | Please define the numerator, denominator and measurement method for the requirement to integrate with 95% of project-planning tools.                                                                | The 95% integration and 90% accuracy wording should be treated separately: integration completeness and AI model accuracy will be measured through separate criteria.                                                                                                                                                        |
| 435. | SOW | Conduct training for 60 users in three batches of 20 users per year, covering end-users, power users and administrators.                                                     | Please confirm whether three batches of 20 users are required once during implementation or every year of the contract.                                                                             | Training to be treated as 3 batches of 20 users, totalling 60 users per year.                                                                                                                                                                                                                                                |
| 436. | SOW | - The tender does not expressly distinguish the bidder's pre-existing platform, reusable libraries, accelerators or third-party components from project-developed artifacts. | Please confirm that the bidder retains ownership of pre-existing platform components, frameworks, libraries, generic models and know-how, with OIL receiving the required license for internal use. | OIL-specific artefacts will be handed over. Bidder's pre-existing platform, reusable libraries, accelerators and third-party components remain bidder/OEM-owned.                                                                                                                                                             |
| 437. | SOW | Conduct mandatory demonstrations after data integration, dashboard development, model development and before go- live; each stage                                            | Please provide time-bound review and deemed-acceptance periods so OIL approval delays do not affect the implementation schedule.                                                                    | Necessary support will be made available.                                                                                                                                                                                                                                                                                    |

## **ANNEXURE-I**

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|      |     | requires formal OIL acceptance before proceeding.                                                                                                                                       |                                                                                                                                                                     |                                                                                                                                                                             |
| 438. | SOW | The implementation timeline states that model performance for UAT should be greater than 80%.                                                                                           | Please reconcile the UAT threshold of >80% with the SLA's 90% accuracy target and confirm the model- specific acceptance metrics.                                   | >80% is minimum requirement for model to pass, refers to model accuracy.                                                                                                    |
| 439. | SOW | OIL is to provide connectivity, access, credentials, data exports, historical datasets and participation in workshops and validation.                                                   | Please confirm that delays or deficiencies in OIL- provided data, access, licenses, infrastructure or approvals will extend the schedule without LD or SLA penalty. | OIL will provide access, credentials, data exports, historical data and validation support as per SOW. Delays due to OIL dependencies should be handled through governance. |
| 440. | SOW | The payment note states that infrastructure and M&S quarterly payments are released post-go-live and completion of hypercare, creating ambiguity for implementation-period cloud costs. | Please confirm that cloud/SaaS costs incurred during implementation are payable quarterly from service activation and are not deferred until hypercare completion.  | Implementation-period cloud cost should be factored by bidder if environments are provisioned before go-live, payment will be made as per payment schedule provided in SOW. |
| 441. | SOW | The tender does not provide for proportionate reduction of Performance Security after implementation or during M&S.                                                                     | Please permit proportionate reduction of Performance Security after implementation acceptance and after each completed M&S year.                                    | Performance Security requirement is being rev                                                                                                                               |
| 442. | SOW | Meet response/resolution targets: P1 1 hour/4 hours, P2 4 hours/24 hours, P3 8 hours/2 days, P4 24 hours/3 days, P5 2 days/5 days.                                                      | Please confirm whether response and resolution SLAs apply 24x7 or only during agreed support hours.                                                                 | 24X7.                                                                                                                                                                       |
| 443. | SOW | At least 90% accuracy with 90% confidence interval attracts no penalty; 85%-90% attracts 5% of implementation cost; 80%- 85% attracts 10%; below 80% is unacceptable.                   | Please replace the generic accuracy measure with model-specific metrics, test datasets, baselines and acceptance thresholds.                                        | Accuracy penalty structure shall apply as per tender. Accuracy metric and validation dataset should be finalized during AI/ML design.                                       |
| 444. | SOW | The stated upper limit of penalty is 7.5% of contract value for each quarter.                                                                                                           | Please confirm that the quarterly SLA penalty cap is 7.5% of the applicable quarterly M&S charge, not 7.5% of total contract value.                                 | Tender terms shall prevail.                                                                                                                                                 |
| 445. | SOW | Non-deployment or absence of required M&S manpower attracts ₹10,000 per day, capped at 7.5% of quarterly M&S charges.                                                                   | Please define the mandatory M&S staffing levels, locations, shifts and permitted replacement periods.                                                               | 2FTEs as defined will be required onsite.                                                                                                                                   |
| 446. | SOW | The tender separately provides for LD, SLA penalties, accuracy penalties, manpower penalties,                                                                                           | Please confirm that penalties and LD for the same underlying event will not be cumulative                                                                           | Pre-implementation LD and post implementation penalties form different caps and are to be taken separately.                                                                 |

## **ANNEXURE-I**

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|      |     | invoice withholding and PBG 1 invocation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | and that aggregate remedies remain subject to an agreed overall cap.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                       |
| 447. | SOW | t Provide software upgrades, updates and enhancements during M&S at no extra cost, including release updates within two weeks.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Please limit no-cost enhancements to standard product updates and minor changes, with material enhancements handled through change control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Software upgrades/updates within contracted scope are included in M&S at no extra cost. Major new scope should follow CR mechanism.                                                   |
| 448. | SOW | During M&S, perform UI modifications, rules, workflow changes, error resolution, new integrations, additional data sources and version upgrades as requested.                                                                                                                                                                                                                                                                                                                                                                                                                           | Please define an annual included effort cap for UI changes, rules, workflows, new data sources and integrations; excess effort should follow change control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | M&S covers minor UI/rule/workflow changes and support. New integrations, new modules or major enhancements should be treated as CRs as confirmed by OIL through a case-by-case basis. |
| 449. | SOW | OIL may terminate on 30 days' notice for reasons not otherwise covered and pay only for services up to the termination date.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Please provide reimbursement for non-cancellable cloud, license, mobilization, demobilization and committed resource costs upon termination for convenience.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tender terms shall prevail.                                                                                                                                                           |
| 450. | BEC | The current BEC wording may be interpreted as requiring every listed project-control functionality, including cost forecasting and risk prediction, within a single completed reference assignment. This may exclude otherwise comparable and substantially implemented AI-driven project performance monitoring solutions. Clarification/relaxation would enable evaluation based on demonstrated core project-monitoring and predictive capabilities and permit substantially completed ongoing assignments where the relevant functionality has already been delivered and accepted. | We request OIL to clarify/amend BEC Clause 3.1 such that an AI-enabled project performance monitoring/project-controls engagement demonstrating substantial capabilities in project schedule and progress monitoring, predictive schedule forecasting, delay/deviation identification, what-if analysis, resource/contractor planning and management decision-support may be considered qualifying experience even where cost forecasting and/or risk prediction are not part of the implemented scope. Further, please confirm whether an ongoing assignment that has substantially completed implementation (e.g., 4 out of 5 contractual milestones completed), with the relevant qualifying functionalities already delivered and accepted by the client, may also be considered, subject to submission of appropriate client-certified milestone acceptance/SES/payment/progress documentation. | BEC clause shall prevail.                                                                                                                                                             |
| 451. | BEC | To clarify the minimum acceptable level of system integration evidence required in the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Please confirm whether ingestion and analysis of schedule or project data through scheduled file extracts, reports, APIs or customer-provided                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BEC clause shall prevail.                                                                                                                                                             |

## **ANNEXURE-I**

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|      |     | completed reference project and assess whether an existing Algo8 engagement can meet the criterion.                                                                                                                                                                            | exports from Primavera P6, Microsoft Project, SAP or another Enterprise Project Planning/ERP system will be considered as integration for the purpose of the experience criterion, or whether the qualifying completed project must demonstrate direct live integration with the source system.                                                                                                                                                      |                                                                                                                                                                                                                                     |
| 452. | SOW | The tender requires integration across OIL sites/assets PAN-India, but the number and geographical distribution of - locations are not specified. This materially affects integration effort, travel, deployment architecture, connectivity, support staffing and commercials. | Please confirm the total number of OIL sites/assets/locations to be covered under the implementation and M&S scope, including the location- wise implementation footprint and whether all locations are expected to go live within the initial implementation period.                                                                                                                                                                                | OIL's spheres are Duliajan, Rajasthan, Andaman, Kakinara, Guwahati, Delhi NCR though the solution should be centrally accessible from any location for all assets. Any additional details to be finalized during discovery.         |
| 453. | BEC | The footnote states that, under MSE, only manufacturers for goods and Service Providers for Services are eligible for EMD exemption. Confirmation is required to determine Algo8's eligibility and required bid-security documentation.                                        | Please confirm the documentary requirements for claiming EMD exemption under the MSE category and clarify whether an eligible MSE registered as a Service Provider for the services covered under this tender will be exempt from submission of EMD.                                                                                                                                                                                                 | Please refer to Clause No. 13 of the ITB for details regarding exemption from submission of Bid Security.                                                                                                                           |
| 454. | BEC | The tender requires Contract/LOI/LOA/WO/Service Order showing detailed scope. Clarification is required before relying on an IOCL reference where supporting completion evidence may have been issued through another contracting/implementation entity such as MSF.           | Please confirm the acceptable documentary evidence for demonstrating qualifying experience. Where a bidder has executed the qualifying scope as an implementation partner/subcontractor, will the relevant Work Order/Service Order together with a Job Completion Certificate/Completion Certificate issued by the contracting organization be acceptable, or must the completion/acceptance certificate necessarily be issued by the end customer? | Bidder to submit relevant documents as per clauses under Notes to BEC Clause 3.1 establishing the requisite experience criteria.                                                                                                    |
| 455. | BEC | The requirement may create significant documentation lead time and cost. The extent of documents requiring TPI certification is presently unclear.                                                                                                                             | Please clarify precisely which bid documents are required to be verified and certified by one of the 17 listed Independent Third-Party Inspection Agencies. Please also confirm whether such certification is required in addition to notarisation, and whether digitally                                                                                                                                                                            | Please be guided by Clause No. 12.2 of the BEC of the tender. All documents mentioned under the said clause are required to be verified by the TPI. Accordingly, bidders are requested to comply with the provisions of the clause. |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                                                                                                                                                            | signed/original client-issued Work Orders, Completion Certificates and statutory documents require separate third-party certification.                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                              |
| 456. | SOW | OIL is granted perpetual rights to use, modify, enhance and extend contract-developed artefacts, while the Contractor is required to retain no project data/models/artefacts post-exit. The Contractor therefore cannot reasonably remain responsible for performance of a subsequently modified solution. | Please confirm that after contractual exit/demobilisation, the Contractor will not be responsible for defects, degradation in performance, security vulnerabilities, availability issues or other failures arising from modifications, enhancements, integrations or extensions made by OIL or any third party without the Contractor's involvement. Please also confirm that associated SLA, warranty and indemnity obligations will not apply to such externally modified components. | Bidder will not be responsible for performance of solution modified by OIL/third party after handover.                                                                       |
| 457. | SOW | Availability penalties should not be triggered by failures in infrastructure controlled by OIL or its cloud/infrastructure providers. A mutually auditable monitoring mechanism is required for root-cause attribution. g                                                                                  | Please confirm that downtime attributable to OIL- provided infrastructure, Azure Landing Zone, network/connectivity, identity services, security controls, third-party services or other dependencies outside the Contractor's control will be excluded from solution availability and SLA calculations. Please also clarify the monitoring mechanism and source of record to distinguish application downtime from Azure Landing Zone/infrastructure downtime.                         | Any delay outside the purview and control of Bidder shall not enforce LD/penalties subject to proper documentation and approval by OIL.                                      |
| 458. | SOW | The tender requires predictive and prescriptive insights aligned with the Phase-II implementation plan, but the specific use cases and expected analytical outcomes are not defined sufficiently for solution sizing, architecture and effort estimation.                                                  | Please provide details of the digital initiatives/use cases envisaged under OIL's Phase-II implementation plan that the proposed solution is expected to support, including the expected predictive/prescriptive use cases, target KPIs, decision-support outputs, applicable assets/projects and expected model deliverables.                                                                                                                                                          | Specific AI/predictive use cases will be finalized during AI/ML design. Baseline use cases include delay prediction, cost overrun, risk identification and what-if analysis. |
| 459. | SOW | n The requirement includes connectors, APIs, middleware, API management and batch/real-time integration. The solution effort and commercial scope differ materially depending on whether an existing OIL integration layer is available.                                                                   | Please confirm whether OIL currently operates an enterprise integration layer, API gateway, middleware, ESB/iPaaS or data-integration platform that the solution is expected to use. If yes, please provide the relevant technology and interface standards. If not, please confirm whether design, licensing, deployment and operation of the required                                                                                                                                 | Tender requirement shall prevail, no API-Gateway exists.                                                                                                                     |

## **ANNEXURE-I**

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|      |     |                                                                                                                                                                                                                      | integration/middleware/API- management layer are within the bidder's scope.                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 460. | SOW | - Obtaining application-specific certifications after deployment can require additional audits, controls, timelines and third-party costs and therefore must be clearly defined before commercial submission.        | Please clarify whether ISO 27001, SOC 2, GDPR and other listed compliance certifications are bidder/cloud- provider eligibility requirements, preferred credentials, y or certifications that the deployed application itself must obtain after implementation. Please specify the mandatory certification(s), applicable scope and required stage of compliance.                                                                                                                             | The tender does not presently prescribe these certifications as Bid Evaluation Criteria nor mandate submission of such certificates at the bid stage. The successful bidder shall be required to demonstrate compliance with the applicable requirements and furnish supporting documentation/certifications, wherever applicable, during solution design, implementation, audit or acceptance stages as required by OIL. |
| 461. | SOW | Compliance obligations cannot be accurately assessed or o priced without access to the referenced policies. Subsequent material policy changes could otherwise introduce unbounded scope during the contract period. | Please provide the latest applicable OIL Data Classification & Protection Policy and Data Protection Policy for OT assets referred to in the tender, including applicable security standards and controls. Please also confirm that any material changes to these policies after contract award that require additional functionality, infrastructure or compliance effort will be handled through mutually agreed change control.                                                            | OIL should share applicable policies during implementation. Material new policy obligations after award will be governed by Tender.                                                                                                                                                                                                                                                                                       |
| 462. | SOW | The present wording could be interpreted as creating an ongoing security-remediation obligation beyond the contracted support period. Responsibilities must have a defined contractual end date.                     | Please confirm that the bidder's obligation to conduct six-monthly VAPT, remediate findings and support security-audit clearance applies only during the contracted implementation/M&S/support period. Please clarify responsibility for VAPT, remediation and CERT-In compliance after expiry or termination of M&S and completion of bidder demobilisation.                                                                                                                                 | Security remediation obligation shall apply only during the contract/support period.                                                                                                                                                                                                                                                                                                                                      |
| 463. | SOW | Deployment architecture, cloud commercials, security responsibility, SLA attribution and data-residency obligations depend on the permitted hosting model.                                                           | Please confirm whether the solution is mandatorily required to be deployed on infrastructure/cloud subscription provided or nominated by OIL, or whether the bidder may propose and provide a MeitY- 9 empanelled cloud service provider meeting OIL's data-residency, security and compliance requirements. If OIL-provided infrastructure is mandatory, please specify the intended cloud platform, subscription model and responsibilities for infrastructure provisioning and operations. | Deployment model may be OIL-approved cloud/SaaS/MeitY empanelled cloud, subject to India data residency, security, audit, SSO and SLA requirements.                                                                                                                                                                                                                                                                       |

### **ANNEXURE-I**

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| 464. |  | <p>In support of the experience criteria under Clause No. 3.1 above, the bidder shall furnish the following documentary evidence: Contract document/Letter of Intent (LOI)/Letter of Award (LOA)/Work Order/Work Order/Service Order showing detailed scope of work AND Job Completion Certificate (JCC) or Service Entry Sheet (SES) or Certificate of Payment (COP) issued by the Client and supported by Client's certified Job Report showing the following: Work Order No./Contract No., Nature/Number/Description of jobs done, and Contract period and date of completion.</p> | <p>For submitting contracts covered under NDA, we request Oil India to accept a certificate submitted certifying all the required information in support of meeting the experience criteria due to our inability to submit necessary documents i.e. copies of work order and completion certificate for reasons of Non-Disclosure Agreement (NDA) with their clients.</p> <p>We need to adhere to NDA obligations towards our clients while still demonstrating relevant credentials.</p> | <p>BEC clause shall prevail.</p>               |
| 465. |  | <p>The bidder must supply software (with all perpetual licenses), design, develop and commission the solution as per the scope of work.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>Kindly inform if with all perpetual licenses are required or it needs to be subscription based</p>                                                                                                                                                                                                                                                                                                                                                                                     | <p>Refer SOW, it is a SaaS based solution.</p> |

## **ANNEXURE-I**

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| 466. |  | <p>Integrates with OIL's existing project planning tools, including Primavera (currently in use), other essential software (as and when procured) such as Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite, GIS, documents such as EPC/Contractor Reports, Hydrotest/Machine reports, contract management and relevant enterprise systems.</p> | <p>Output formats of Aspen HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite, GIS are generally preoperatory in nature and usages are restricted under EULA signed by OIL - Can OIL facilitates providing output data sets of the application in text or CSV formats?</p> <p>Further the RFP lists eight engineering simulation tools (HYSYS, Pipesim, OLGA, Fathom, ProTreat, HTRI, CAESAR, PVElite) but qualifies them as "as and when procured." Which of these are currently deployed and in active use across OIL's projects today, and for those that are live, do they expose any API or database interface?</p> <p>All the functional requirements mentioned in the RFP seem to be focusing on Capital Project monitoring and control. But these engineering tools are related to Process/ Operations. How is this data relevant to Project performance / monitoring?</p> | <p>Yes, OIL will support providing inputs from multiple tools though the format of the file can vary and this integration can be batch basis (as and when the tool/software is updated). Further to be finalized during implementation.</p> |
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## ANNEXURE-I

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| 467. |  | <p>Bidder needs to ensure to adequately size the necessary compute, memory and storage required, building the redundancy into the architecture (including storage) and load balancing to meet the service levels (cloud services) mentioned in the proposal and the application service levels. / Solution's initial sizing &amp; provisioning of the underlying infrastructure (including the system software and bandwidth) is carried out based on the information provided in the proposal, subsequently, it is expected that the bidder, based on the growth in the user load (peak and non-peak periods; year-on-year increase), will manage the scale up or scale down of compute, memory, storage and bandwidth to support the scalability and performance requirements of the solution and meet the SLAs.</p> | <p>Project portfolio size and data scale : The RFP leaves the critical sizing inputs undefined — it states the minimum number of historical projects and historical data period are "to be confirmed by OIL during discovery." Before that discovery phase, we need at least indicative numbers: how many projects are currently active in Primavera, how many completed projects are available for model training, and the approximate WBS depth and activity count of a typical OIL capital project? These three figures directly determine infrastructure tier, cluster sizing, reporting capacity, storage, and whether the AI/ML models will have sufficient training data to meet the 80% acceptance threshold — all of which are priced in the SOR before discovery happens</p> | <p>Historical data related to Primavera is around 12 GB and anticipated data for the same will be around 20-25 GBs (+/- 10%).</p> <p>Tentative availability of data ~ 5 yrs</p> <p>Indicative counts: active/planned projects: 40 nos. WBS/Activity: 800 to 4000 per project. To be finalized during implementation phase.</p> <p>Roughly on an average 500 to 1500 nos. of documents per projects based on size and complexity of the project. No. of pages per document varies in the range 2 - 150 pages. (c) Most of the documents are in a structured format. Approx. 15% documents per project may be requiring OCR.</p> <p>Rest can be discussed during discovery phase.</p> |
| 468. |  | <p>Primavera and ERP connectivity specifics<br/>40. Data Ingestion &amp; Consolidation (Primavera, ERP/Finance, Engineering tools, GIS, docs)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>The two highest-priority integrations — Primavera P6 and SAP/ERP — have significantly different integration complexity depending on their version and deployment model. Is Primavera P6 running on-premise or on Oracle Cloud (EPPM), and which version? Is the ERP SAP S/4HANA or an earlier ECC instance, and is it hosted on OIL's infrastructure or on a third-party managed service?</p>                                                                                                                                                                                                                                                                                                                                                                                       | <p>Primavera P6 is hosted on central server. SAP/ERP is on cloud. Primavera P6 Professional 22.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 469. |  | <p>4.1 SERVICE LEVEL AGREEMENT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>The RFP consistently uses the phrase "within agreed thresholds" for performance (dashboard load time, model refresh latency), "as per agreed</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Tender to prevail.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## ANNEXURE-I

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|      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | availability targets" for uptime, and "agreed RPO/RTO" for backup and recovery — but no actual numbers are stated anywhere. Does OIL have specific targets in mind for each of these ?                                                                                        |                                                                                                                                                       |
| 470. |  | <p>6.6 The inter-se-ranking of the techno-commercially qualified bidders will be determined on overall lowest cost basis (L-1 offer) i.e. considering the Total quoted price inclusive of all liabilities and GST.</p> <p>Total Estimated Contract Cost including all Taxes &amp; Duties [including all applicable GST components]:</p> <p>Total Estimated Contract Cost =<br/> (PART - I<br/> 'IMPLEMENTATION PHASE' +<br/> PART - II 'INFRASTRUCTURE' +<br/> PART - III 'M&amp;S PHASE')</p>                                                               | <p>As the approach is L1, how will a technical quality be differentiated with start-ups as there is no way for established players to compete on price. We request you to consider technical scoring for the credentials based on OIL requirement and bidders experience.</p> | <p>Technical evaluation undertaken by OIL will cover such gaps as per policies.</p>                                                                   |
| 471. |  | <p>PART-II 'INFRASTRUCTURE' Subscription-based services/items from BoQ Price Schedule, including:</p> <ul style="list-style-type: none"> <li>• SaaS visualization subscription</li> <li>• Field mobile app subscription and any other subscription line items</li> <li>• Quarterly consolidated invoice for the subscription period</li> <li>• Monthly bills/usage statements for each month of the quarter (3 numbers)</li> <li>• Proof of active subscription/entitlement for the invoiced period</li> <li>• Service availability/uptime report</li> </ul> | <p>Kindly confirm if the payment for cloud infrastructure will be made on actual usages of Monthly bills/usage statements for each month of the quarter.</p>                                                                                                                  | <p>Bidder to cater cloud usage in M&amp;S fees for each quarter, no separate payment will be done for cloud infrastructure on the basis of usage.</p> |

## **ANNEXURE-I**

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|      |  | for the quarter (where applicable)<br><br>Payment shall be made quarterly* for subscription items as per the 'Price Bidding Format', subject to submission of monthly bills/invoices for subscriptions for each month within the quarter.                                                                                                                                       |                                                                                                                                                                            |                                                                                                                                                        |
| 472. |  | Bidder requests for deletion of the language or clauses related to banning or blacklisted mentioned in the entire RFP document and also as specified in the clauses referred here.                                                                                                                                                                                              | OIL has other remedies available under the RFP/law including levy of LD/penalty. Hence, we request for deletion of clauses under the RFP which requires banning of bidder. | Tender terms shall prevail.                                                                                                                            |
| 473. |  | Bidder request to add below para in this section: Notwithstanding the foregoing, the Bidder shall not be responsible for latent, unforeseeable, or materially changed conditions, changes in applicable laws, governmental actions, force majeure events, or circumstances beyond the Bidder's reasonable control arising after bid submission wherein Bidder can claim relief. | Bidder shall not be responsible in case there changes in local conditions, laws, or circumstances beyond bidder's control.                                                 | Any delay outside the purview and control of Bidder shall not enforce LD/penalties subject to proper documentation and approval by OIL.                |
| 474. |  | Bidder request following change:1.2.11<br>Service/Works/Operations: Shall mean and include all items and things to be supplied/done and all work /Service to be performed by the CONTRACTOR as specified in the Scope of Work under this CONTRACT and shall also include all mutually agreed extra, additional, altered or substituted works/services as required for the       | Any new scope or extra/altered/substituted work shall be as per change request and considered new services which should be mutually agreed and at additional cost.         | Any changes that require quantum work would be taken on a case-by-case basis during project implementation and final approving authority would be OIL. |

## **ANNEXURE-I**

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|      |  | purpose of successful execution of the Contract at an additional cost.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |                                                                                                                                         |
| 475. |  | In case we need to procure any third party hardware or software or material/equipments, the same shall be on resale basis and following clause should be added. Bidder will supply these licenses including any products, hardware, software, SaaS, all third-party products and services through the resale model, supply of such licenses, products shall be governed by the terms and conditions of the resale agreement (enclosed) which needs to be signed between BIDDER and OIL separately for establishing the resale model. All OEM products shall be governed by the EULA/EUMA as provided by the respective OEM, which will be executed between the BIDDER and such OEM directly. As per industry practice, there is no tri-partite agreement, the re-sale agreement is executed between Bidder and OIL and the EULA/EUMA terms are agreement between OIL and OEM directly. | Any third party hard/software should be on resale basis.                           | Bidder to foresee the same during tendering process and factor the cost for the same in their bids, no additional payment will be done. |
| 476. |  | Change Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Any changes in the program or changes to it shall be mutually agreed.              | Shall be guided as per the tender terms and conditions.                                                                                 |
| 477. |  | Bidder request following change in section 6.3:6.3 Perform all other obligations, work and services which are required by the terms of this contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Any additional work should be specified identified or agreed under change request. | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable.               |

## **ANNEXURE-I**

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| 478. |  | Personnel to be deployed by contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>Bidder request following change in section 9.0 and 9.1:9.0 Personnel to be deployed by contractor: CONTRACTOR shall provide suitably qualified and sufficiently experienced personnel to perform the work in accordance with the requirements of this Contract.9.1 The CONTRACTOR should ensure that their personnel observe all statutory safety requirement including those prescribed by the COMPANY under this contract. Upon COMPANY's written request, CONTRACTOR, entirely at its own expense, shall remove promptly any personnel of the CONTRACTOR due to his misconducts, security concerns, safety violations, or material performance deficiencies, and shall use commercially reasonable efforts to replace such personnel with personnel of substantially similar qualification and experience. Replacement personnel should be mobilized within 60 days from the date of issuance of notice without affecting the operation of the COMPANY.</p> | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 479. |  | <p>Bidder request following change in section 12.112.1 Claims: Subject to receipt of full payment from COMPANY, CONTRACTOR shall pay all undisputed charges for equipment, labour, materials, services and supplies to be furnished by it hereunder and agrees to allow no lien or charge resulting from such claims to be fixed upon any property of COMPANY. If any of the vendor or employee of the CONTRACTOR files claims on the COMPANY for non-payment of undisputed charges, it shall promptly notify CONTRACTOR and provide CONTRACTOR a reasonable</p> | <p>We will make the payment of undisputed fees/charges to our vendors and employees.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |

## **ANNEXURE-I**

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|      |  | opportunity to discharge, settle or contest such claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                           |
| 480. |  | Bidder request following change in section 12.3.1:12.3.1 CONTRACTOR, unless specified otherwise in the CONTRACT, shall bear all tax liabilities, duties, Govt. levies etc. including GST and customs duty, Corporate and personnel taxes levied or imposed on the CONTRACTOR on account of payments received by it from the COMPNAY for the work done under this CONTRACT which are the obligations of CONTRACTOR under the applicable tax laws. Bidder request to delete section 12.3.5 as this is not clear what kind of documents are requested for submission to income tax authorities. | Bidder should bear the taxes which are its obligation under the tax laws.                                                                                                                                                                                                                                                                                                                                                                                                                                | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 481. |  | (Goods and Service Tax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Bidder request following change in section 12.4.6:12.4.6 Beyond the contract period, in case OIL is not entitled for input tax credit of GST due to any non-compliances under the GST Law by the CONTRACTOR, then any increase in the rate of GST beyond the contractual delivery period shall be to Service provider's account whereas any decrease in the rate GST shall be passed on to the OIL.                                                                                                      | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 482. |  | Insurance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bidder request following change in section 14:14.0 INSURANCE:14.1 The Contractor shall at its own expense arrange secure and maintain insurance with reputed insurance companies as follows:a) The Contractor shall also carry adequate insurance cover against damage/loss to third party/person/property.b) The Contractor at his cost shall arrange, secure and maintain insurance as may be necessary for all such amounts to protecting the works-in-progress from time to time and the interest of | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |

## **ANNEXURE-I**

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|  |  |  | <p>Contractor against risks as detailed herein subject to the irrespective of acceptance of the Work.14.2 Deductible: That portion of any loss not covered by the insurance provided for in this article solely by reason of a deductible provision in such insurance policies that shall be the account of the Contractor.14.3 The Contractor shall require all of its sub-Contractor to maintain insurance coverage as Contractor deems necessary.14.4 Waiver of subrogation: The Commercial General Liability and Property All Risk insurance policies of the Contractor with respect to the operations conducted hereunder as set forth in clauses hereof, shall be endorsed by the underwriter or contain in accordance with the following policy wording: "The insurers hereby waive their rights of subrogation against Oil India Limited or any of their employees or their affiliates and assignees."14.5 Loss Payee Clause: The Property All Risk Insurance Policy should mention the following in Loss Payee Clause: "In respect of Insurance claims in which OIL's interest is involved, written consent of OIL will be required".14.6 Additional Assured: "Oil India Limited" is to be included as Additional Assured in the Commercial General Liability Insurance Policy.14.7 Certificate of Insurance: Before commencing performance of the CONTRACT, CONTRACTOR shall furnish OIL with certificates of insurance indicating: a) Kinds and amounts of insurance as required herein. b) Details of coverage c) Insurance corporation or companies carrying the aforesaid coverage d) Effective and expiry dates of policies e) Waiver of subrogation endorsement has been attached for the Commercial General Liability and Property All Risk policies.14.9 The CONTRACTOR shall at all time during the currency of the contract provide, pay for and maintain the following insurance amongst</p> |  |
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## **ANNEXURE-I**

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|      |  |               | others:i) Commercial General Liability Insurance: Commercial General Public Liability Insurance covering liabilities including contractual liability for bodily injury, including death of persons, and liabilities for damage of property. This insurance must cover all operations of CONTRACTOR required to fulfil the provisions under this Contract.ii) Comprehensive General Automotive Liability: Automobile Public Liability Insurance as required by law and governed by Indian Insurance Regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
| 483. |  | Liability     | These clauses are not applicable Bidder and the scope. Hence Bidder request to deletion entire section 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 484. |  | Liability     | Bidder request following change in section 16:16.0 LIMITATION OF LIABILITY :a) Notwithstanding any other provisions herein to the contrary, neither the CONTRACTOR nor the COMPANY (OIL) shall be liable to the other, whether in Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs. b) Notwithstanding any other provisions incorporated elsewhere in the contract, except only in cases of Wilful misconduct and/or criminal acts and/or criminal negligence, the aggregate liability of the CONTRACTOR in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 100% of the Contract Price (if not specified otherwise in SCC), provided however that this limitation shall not apply to any agreed obligation of the CONTRACTOR to indemnify the COMPANY with respect to infringement of third party Intellectual Property Rights. | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 485. |  | Risk Purchase | Bidder request following change in this section: RISK PURCHASE: In the event, CONTRACTOR's failure to provide the services as per the Contractual scope, terms and conditions,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |

## **ANNEXURE-I**

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|      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | COMPANY (OIL) reserves the right to hire the services from any other source at the CONTRACTOR's risk & cost and maximum upto 10% of the difference in cost shall be borne by the CONTRACTOR. |                                                                                                                           |
| 486. |  | Bidder request following change in section 22:22.0 ROYALTY PATENTS: Each party shall defend, hold harmless and indemnify the other from and against all third party claim and proceedings for or on account of infringement of any patent rights, design, trade mark or other protected rights of third parties arising from any use of materials, equipment, processes, software, inventions, methods and other items supplied by other party. The indemnifying party will have no liability to any infringement claim which is caused by modifications to indemnifying party's Intellectual Property by or on behalf of indemnified party or its use in combination with any hardware, software or intellectual property. The indemnifying party will have no liability, however, to any infringement claim which was caused by: (I) modifications to any indemnifying party's IP made by or on behalf of indemnified party; (II) use of the indemnifying party's IP in combination with any hardware, software or other products or services where such combination was not within the reasonable contemplation of the Parties; (III) the failure of indemnified party to use | Bidder cannot be made responsible if any infringement is caused due to modification/combination of materials or claim arises due to use of client's material etc.                            | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |

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|      |  | corrections or enhancements to the indemnifying party's IP provided by the indemnifying party; (IV) specifications or direction provided by indemnified party; or (V) use of the indemnifying party IP not authorized under this Agreement. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                  |
| 487. |  | WARRANTY AND REMEDY OF DEFECTS                                                                                                                                                                                                              | <p>Bidder request following change in section 2323.0 WARRANTY AND REMEDY OF DEFECTS :23.1 CONTRACTOR warrants that they shall perform the work in a good, workmanlike, and professional manner and in accordance with generally accepted industry standards and in conformity with all specifications, standards and drawings set forth or referred to in the Terms of Reference and with instructions and guidance, which COMPANY may, from time to time, furnish to the CONTRACTOR.23.2 Should COMPANY discover within 30 days after delivery of work ("Warranty Period")that the work does not conform to the foregoing warranty, CONTRACTOR shall after receipt of notice (along with details of non-conformities) from COMPANY within the Warranty Period, use commercially reasonable efforts to perform correct work required to make the services conform to the Warranty if such non-conformities are caused solely by CONTRACTOR. Such corrective Work shall be performed entirely at CONTRACTOR's own expenses. In case CONTRACTOR fails to perform remedial work, or pay promptly in respect thereof, the performance security shall be forfeited only for undisputed amounts finally determined to be payable by CONTRACTOR under this Clause.23.3 The foregoing and other warranties expressly set forth in this contract are the only warranties applicable to the Services. Except for the warranties expressly</p> | <p>Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable.</p> |

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|      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | provided in this Agreement, all other warranties, whether express, implied, statutory, or otherwise, are hereby disclaimed. |                                                                                                                           |
| 488. |  | Bidder requests to add following para in this section 25:The audit or inspection shall be subject to following restrictions: (a) The audit shall be conducted during the business hours of the CONTRACTOR and not more than once a calendar year; b) The auditors will be bound by confidentiality obligations; (c) The third party auditors appointed by COMPANY shall not be a competitor of the CONTRACTOR; (d) Such audit will not involve intrusive testing of or access to CONTRACTOR's systems or IT environment; (e) COMPANY will not be entitled to audit (i) data or information of other customers of Accenture; (ii) any cost information unless such is the basis of a reimbursable expense; (iii) any internal pricing and information of the CONTRACTOR's employees; and (f) any access to CONTRACTOR's premises, data, records, controls, processes, and procedures relating to the Services will be subject to CONTRACTOR's reasonable access and security requirements. | We have proposed to include the audit related process and conditions.                                                       | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 489. |  | Bidder request to add following para in section 26:The exceptions mentioned in section 26.4 shall also apply to the confidential information disclosed by COMPANY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | We request same exceptions as mentioned in 26.4 to apply for OIL confidential information.                                  | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |

## **ANNEXURE-I**

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| 490. |  | Remuneration and terms of payment                   | Bidder request following change in section 27: Section 27.5 – we request the payment term to be modified from 45 days to 30 days for mobilization charges Section 27.9 – any dispute on the invoices should be raised within 5 days of its receipt. We request to replace 30 days with 5 days for notifying the dispute on invoice. Section 27.11 - we request the payment term to be modified from 45 days to 30 days for demobilization charges                                                                                                                                                                                                                                                                            | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 491. |  | Details of Statutory payments like EPF and ESI etc. | Bidder requests for deletion of the indemnification provision in this clause 29.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 492. |  | Timely Mobilization and Liquidated damages          | Bidder requests following change in this section 30:30 TIMELY MOBILIZATION AND LIQUIDATED DAMAGES:(b) If the contractor is unable to mobilize/deploy and commence the operation within the period specified in sub clause (a) above solely due to the reasons attributable to Contractor, it may request OIL for extension of the time with unconditionally agreeing for levy and recovery of LD. Upon receipt of such a request, OIL may at its discretion, extend the period of mobilization and shall recover from the CONTRACTOR, as an ascertained and agreed Liquidated Damages, a sum equivalent to @ 0.5% of mobilization cost, per week or part thereof of delay subject to maximum of 5% of the mobilization cost. | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 493. |  | Set-off                                             | Bidder requests deletion of this clause 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 494. |  | Withholding                                         | Bidder request deletion of this clause 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 495. |  | Applicable Laws                                     | Bidder request to add following language in this section:The laws as required under this section shall apply to the Contractor to the extent those are applicable to the Contractor's business and as a provider of services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 496. |  | Labour Laws                                         | Bidder requests for deletion of the indemnification provision in this clause 35.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 497. |  |                                                     | Bidder request following change in this section:37.4 Any compensation arising due to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |

## **ANNEXURE-I**

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|      |  |                                       | accident of the Contractor's personnel while carrying out the job, will be payable by the contractor to the extent it is caused due to gross negligence of the Contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                           |
| 498. |  | Statutory Variation/Newly elected law | Bidder request following changes in this section:39.1 All duties, taxes except otherwise specified in the Contract as applicable on the closing date of bid submission as per relevant acts and rules shall be in CONTRACTOR's account to the extent Contractor is responsible for such obligations under the applicable tax laws. Variation in case of custom duty on CIF value declared by the bidder shall be to COMPANY account.39.4 The Contract Price and other prices given in the Schedule of Prices are based on the applicable tariff as indicated by the CONTRACTOR in the Schedule of Prices.39.5(iv)                                                                                                                                                                                                                                                                                                                                                                                             | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 499. |  | Termination                           | Bidder request following change in this section:44.5 Termination for Unsatisfactory Performance: If the COMPANY finds that, the CONTRACTOR has materially breached its obligations under the Contract, the COMPANY shall notify the CONTRACTOR in writing and specify in details the cause of breach. The COMPANY shall have the option to terminate the Contract by giving 30 days notice in writing to the CONTRACTOR, if CONTRACTOR fails to cure the breach within the said written notice issued by the COMPANY. In the event CONTRACTOR rectifies its non-performance, the option of termination may not be exercised by the COMPANY. If however CONTRACTOR repeats non-performance subsequently, COMPANY shall exercise the option to terminate contract by giving 07 days notice provided the CONTRACTOR has been given a reasonable opportunity to remedy such non-performance. Similarly, CONTRACTOR may terminate the Contract upon 30 days notice if the COMPANY materially breaches the terms of | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |

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|  |  |  | <p>this Contract.44.7 If at any time during the term of this Contract, breakdown of CONTRACTOR's equipment results in CONTRACTORs being unable to perform their obligations hereunder for a period of 15 successive days, COMPANY at its option, may terminate this Contract in its entirety or partially to the extent non-performance, without any further right or obligation on the part of the COMPANY, except for the payment of money then due upon notice if the CONTRACTOR fails to cure the non-performance within 30 days of receipt of notice.44.8 Termination for delay in mobilization: CONTRACTOR is required to mobilize required equipment along with crew for commencement of services at the specified site within the maximum allowed number of days from the date of LOA/Notice for Mobilization as specified in the special conditions of contract. If the CONTRACTOR (successful bidder) fails to complete the mobilization as above, due to reasons solely attributable to Contractor, OIL shall have, without prejudice to any other clause of the CONTRACT, the right to terminate the contract if CONTRACTOR fails to cure the same within 30 days from the receipt of notice.44.9 Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the COMPANY on giving 90 (ninety) days written notice to the CONTRACTOR due to any other reason not covered under the above Article from 44.1 to 44.8 and in the event of such termination the COMPANY shall not be liable to pay any cost or damage to the CONTRACTOR except for payment of services as per the Contract upto the date of termination including (i) expenses incurred by CONTRACTOR upto the date of termination; and (ii) any investment made by</p> |  |
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## **ANNEXURE-I**

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|      |  |                                  | CONTRACTOR in terms of third party products supplied under this Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                           |
| 500. |  | To Determine the Contract        | <p>Bidder request following change in this section:45.0 TO DETERMINE THE CONTRACT: In such an event (i.e. termination under Article No. 44.4 to 44.9 above), the contract shall stand terminated and shall cease to be in force in accordance with those sections. Thereafter the CONTRACTOR shall stop forthwith any of the work then in progress, except those work which the COMPANY may, in writing, require to be done to safeguard any property or work, or installations from damages, and the COMPANY may take over the remaining unfinished work of the CONTRACTOR and complete the same through a fresh CONTRACTOR or by other means, at the risk and cost of the CONTRACTOR, and CONTRACTOR shall be liable to the COMPANY maximum upto 10% of r any excess cost occasioned by such work having to be so taken over and completed by the COMPANY over and above the cost at the rate/cost specified in the schedule of quantities and rates/prices.</p> | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |
| 501. |  | Without determining the Contract | <p>46.0 WITHOUT DETERMINING THE CONTRACT: In such an event (i.e. termination under Article No. 44.4 to 44.9 above), the COMPANY may take over the work of the CONTRACTOR or any part thereof and complete the same through a fresh CONTRACTOR or by other means, at the risk and cost of the CONTRACTOR. The CONTRACTOR shall be liable to the COMPANY for maximum upto 10% of any excess cost over and above the cost at the rates specified in the schedule of quantities and rates/prices, occasioned by such work having been taken over and completed by the COMPANY.</p>                                                                                                                                                                                                                                                                                                                                                                                     | Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable. |

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| 502. | Miscellaneous Provisions | <p>48.0 MISCELLANEOUS PROVISIONS:CONTRACTOR shall give notices and pay all fees at their own cost required to be given or paid by any National or State Statute, Ordinance, or other Law or any regulation, or bye-law of any local or other duly constituted authority as may be in force from time to time in India which are applicable to CONTRACTOR's business, in relation to the performance of the services under this Contract and by the rules &amp; regulations of all public bodies and companies whose property or rights are affected or may be affected due to Contractor's gross negligence. COMPANY shall be responsible for permits, approvals, and authorizations relating to COMPANY-owned facilities, assets, or operations, and shall provide reasonable cooperation and assistance where required. Any material increase in cost resulting from a change in applicable law after the Effective Date shall be addressed through an equitable adjustment to the Contract. CONTRACTOR shall comply in all respects with the provisions of any Statute, Ordinance of Law as aforesaid and the regulations or bye-law of any local or other duly constituted authority which may be applicable to the CONTRACTOR's business and as provider of services and with such rules and regulation, public bodies and Companies as aforesaid. During the tenure of the Contract, CONTRACTOR shall keep the site where the services are being performed reasonably free from all unnecessary obstruction and shall store or dispose of any equipment and surplus materials and clear away and remove from the site any wreckage, rubbish or temporary works no longer required. On the completion of the services, CONTRACTOR shall clear away and remove from the site any surplus materials; rubbish or temporary works of every kind and leave the</p> | <p>Please note that the GCC is a standard contractual document, and any change or deviation from the same is not acceptable.</p> |
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## **ANNEXURE-I**

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|      |  |  | whole of the site clean and in workmanlike condition in accordance with the requirements of the Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |
| 503. |  |  | <p>As the scope involves creation of functionalities for purchase requisition including contract creation, Bidder request to add below assumptions in the scope:</p> <ol style="list-style-type: none"> <li>1. All documents are generated using templates, formats, workflows, and instructions supplied by the Client.</li> <li>2. The Client retains sole responsibility for the review, validation, approval, and issuance of all documents.</li> <li>3. The tool is positioned as an efficiency and productivity enabler, and not as a substitute for legal advice or legal counsel or legal services.</li> <li>4. Accenture's role is strictly limited to the design, development, and deployment of the tool.</li> <li>5. The Client retains sole responsibility for: <ul style="list-style-type: none"> <li>• The source information and training data used by the solution;</li> <li>• All human review, modifications, validation, and quality assurance prior to use;</li> <li>• Final approval and sign-off of the solution and its outputs; and</li> <li>• Any use of, reliance on, or consequences arising from the solution and its outputs.</li> </ul> </li> <li>6. Responsibility for the legal accuracy, appropriateness, and use of any output generated through the tool rests exclusively with the Client.</li> </ol> | Tender terms shall prevail. |
| 504. |  |  | <p>Bidder would like to clarify that, for GenAI related scopes – while Bidder will perform services as defined, however, as per standard global practice for every GenAI scope – we suggest to mutually discuss the scope and applicable T&amp;Cs for GenAI related outcomes, as:</p> <ol style="list-style-type: none"> <li>1. We do not commit or assure that output created will meet the purpose of OIL.</li> <li>2. We do not assure / commit to give IP rights in output created by GenAI services/tools. However, OIL as per its discretion free to claim IP rights under applicable law.</li> <li>3. We do not provide IP</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tender terms shall prevail. |

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|      |  |  | Infringement Indemnity / warranty for GenAI Output.4. OIL will represent and warrant that they will comply with all applicable laws with respect to GenAI services including Privacy Laws etc. GenAI scope related T&Cs are attached for your review and inputs, if any, which can be discussed and agreed.                                                                                                                                                                                                                                         |                             |
| 505. |  |  | The Bidder shall deploy approved Key Personnel as per Scope of Work. Replacement of any Key personnel shall require prior written approval of OIL, which shall not be unreasonably withheld, and if OIL does not respond within ten (10) business days of receipt of the proposed replacement profile, such replacement shall be deemed approved. Contractor may deploy temporary replacement personnel where necessary to ensure continuity of Services pending OIL approval.                                                                      | Tender terms shall prevail. |
| 506. |  |  | Bidder requests changes in following points:On OIL's request, bidder shall remove and replace at their expenses, any of their personnel who is unable to perform the assigned responsibilities and has materially failed to comply with the project. The Bidder shall provide the supporting staff and labor at their own expenses. The bidder shall bear all expenses on account of repair/replacement of all their materials, equipment etc. consequent upon any damage/loss/non-performance caused due to bidder during services implementation. | Tender terms shall prevail. |

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| 507. |  |  | <p>Bidder requests change in following points:<br/>         Bidder shall provide suitably qualified and sufficiently experienced personnel to perform the work in accordance with the requirements of this Contract. The bidder should ensure that their personnel observe applicable OIL and statutory safety requirement prescribed under this Contract. Upon OIL's written request, bidder, entirely at its own expense, shall remove any personnel of the bidder due to his misconducts, security concerns, safety violations, or material performance deficiencies, and shall use commercially reasonable efforts to replace such personnel with personnel of substantially similar qualification and experience. Bidder must not change the key personnel deployed during solution implementation and Hyper Care period except in case of resignation/sickness/death/termination. Key personnel cannot be changed during the tenure of the Contract, especially during design, development and testing phase except due to sickness/death/resignation of the personnel in which case the replaced person should have substantially similar experience and qualification, which will be again subject to approval by OIL.</p> | Tender terms shall prevail. |
| 508. |  |  | <p>Bidder request changes in following points and also request to replace the work tax with GST as this clause pertains to GST only.25.12 Where OIL has the obligation to discharge GST liability under reverse charge mechanism and OIL has paid or is/liable to pay GST to the Government on which interest or penalties becomes payable as per GST laws for any reason which is not attributable to OIL or ITC with respect to such payments is not available to OIL for any reason which is not attributable to OIL and is solely due to any non-compliances under the GST Laws by CONTRACTOR, then OIL shall be</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tender terms shall prevail. |

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|      |  |  | entitled to deduct/setoff/recover such amounts against any amounts paid or payable by OIL to Contractor/Supplier.25.13 In addition to the amount of GST, OIL shall also be entitled to recover interest at the rate prescribed under GST Act and penalty, in case any interest penalty is imposed by the GST authorities on OIL. The Rules on blacklisting under the GST Law is not yet notified by the Government, hence, bidder requests deletion of 25.32 of SCC and section 12.5.2 of GCC.                                                                                                                                                |                                                                                                                         |
| 509. |  |  | vi. The upper limit of penalty would be capped at 7.5% of the quarterly fees for each quarter.<br>vii. In absence of resources during S&M period a penalty of Rs. 1,000/- per day shall be recovered from the quarterly S&M invoice of the Bidder, subject to maximum cap of Rs. 10,000.                                                                                                                                                                                                                                                                                                                                                      | Penalty on absence of resources forms a part of the post implementation M&S penalty cap.                                |
| 510. |  |  | We understand that OIL will provide BIDDER with access to personal data in the OIL's environment only, Bidder request OIL, either:(i) To share only masked data to Bidder for providing services under this project, or(ii) If option (i) above is not possible, then, Bidder expects that the parties will mutually discuss and agree to enter into Data Protection Schedule capturing the security & disclosure protocols and other terms as per applicable Data Privacy Laws to define OIL (being Data Controller role) and Bidder (being Data Processor role) and will comply the applicable Data Privacy Laws respective to their roles. | OIL will provide all the relevant and required data access to ensure smooth implementation and functioning of solution. |

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| 511. |     |  | There is no clarity on the protection as regards background IPR of the Bidder. We request inclusion of the following verbiage in the clause: "As between the Parties, Bidder, its affiliates and licensors will be the sole and exclusive owner of the Intellectual Property owned by Bidder or its affiliates or provided to OIL by Bidder under this Agreement including, without limitation, the Contractor-Provided Software (collectively the "Background IPR"). Background IPR will be deemed to include any derivatives, modifications, enhancements or improvements to the Background IPR." Any use or access to Bidder's product or software shall be subject to separate license terms (as applicable). Any hardware and software products shall be provided by the resale mode, and such products shall be governed under the terms and conditions of the Resale Agreement to be signed between the parties. Any OEM products shall be governed by the EULA/EUMA as provided by the OEM. | Tender terms shall prevail. |
| 512. | BEC |  | The tender provides DPIIT-recognised Start-Ups exemption from the Annual Financial Turnover Criteria while retaining the experience requirement under Clause 3.1. Considering the objective of facilitating participation of Start-Ups/MSMEs in public procurement, may OIL consider appropriate relaxation/exemption from the stipulated prior completed-project experience requirement for eligible DPIIT-recognised Start-Ups/MSMEs, subject to demonstration of the requisite technical capability through a structured Proof of Concept (PoC) against the technical parameters specified under Clause 3.1?                                                                                                                                                                                                                                                                                                                                                                                     | No change.                  |
| 513. | BEC |  | Clause 3.1 requires the qualifying solution to include integration with at least one EPP/ERP system such as Primavera P6, Microsoft Project or SAP. May OIL clarify whether experience involving equivalent enterprise project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BEC clause shall prevail.   |

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|      |     |  | planning/project controls platforms with comparable functionality and integration capability would be considered for meeting this requirement?                                                                                                                                                                                                                                                                  |                                                                                                                                                  |
| 514. | BEC |  | The tender requires the proposed CVs to be submitted during mobilisation and specifies deployment of personnel as per SOW Clause 3.6. May OIL clarify whether the stipulated experience/qualification requirements for key personnel are evaluation criteria at the bidding stage, or whether compliance is to be demonstrated at the mobilisation stage through submission of the certified CVs?               | Please be guided by BEC Clause No. 3.1.2.                                                                                                        |
| 515. | SOW |  | The minimum historical data period and minimum number of completed projects required for model training are stated to be confirmed during discovery. May OIL clarify the expected indicative historical data volume and project count available with OIL at the commencement of the engagement, to enable bidders to appropriately size the proposed architecture and AI/ML solution for commercial evaluation? | Historical data for Primavera P6 projects is around 12 GBs. Anticipating around 20-25 GBs for the duration of tender with flexibility of +/-10%. |
| 516. | SOW |  | The solution is required to integrate with Primavera, ERP/Finance, multiple engineering applications, GIS and other sources. Since the availability and nature of interfaces may vary across these systems, may OIL clarify whether API/database/file-based access and the requisite technical documentation/credentials for each identified source system will be provided by OIL as part of its scope?        | Will be discussed during discovery phase.                                                                                                        |
| 517  | SOW |  | The tender permits the bidder to propose a MeitY-empanelled public cloud while requiring traffic to be routed through OIL's Azure landing zone and the bidder to factor connectivity/security components. May OIL clarify whether OIL's Azure landing zone, including the necessary network connectivity and security-side configurations, will be made available to the successful bidder, with the            | Yes, OIL's Azure Landing zone will be made available to bidders though responsibility of cloud for AIPPM solution will lie in Bidder's scope.    |

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|     |     |  | bidder being responsible only for the additional components specifically required for its proposed architecture?                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |
| 518 | SOW |  | The tender requires complete handover of source code, AI/ML pipelines, model artefacts and other components developed under the contract, along with perpetual rights for OIL. May OIL clarify that the ownership/handover requirement is limited to OIL-specific developments and deliverables under this contract, while the bidder retains ownership of its pre-existing proprietary frameworks, libraries, tools, algorithms and generic technology components used in delivering the solution? | Tender terms shall prevail.                                                                                                |
| 519 | SOW |  | The implementation schedule includes discovery, data profiling, integration with multiple enterprise systems, AI/ML development, back-testing, UAT and Go-Live. May OIL clarify whether the milestone timelines will be correspondingly adjusted where dependencies such as system access, historical data availability, interface readiness or stakeholder approvals, which are identified under OIL's scope, are not available within the required project timeline?                              | To be discussed with User department during discovery and OIL will be providing all the support required for the solution. |
| 520 | SOW |  | The tender specifies a minimum 90% accuracy with a 90% confidence interval and integration with 95% of project planning tools, with financial penalties linked to model accuracy. May OIL clarify the methodology, reference dataset, validation period and acceptance protocol that will be used to measure AI/ML accuracy and establish the 90% confidence interval during implementation?                                                                                                        | Will be discussed during discovery phase.                                                                                  |
| 521 | SCC |  | The implementation payments are linked to formal acceptance of multiple technical milestones, while M&S and infrastructure payments are released quarterly after completion of the relevant quarter. May OIL clarify the stipulated turnaround time for                                                                                                                                                                                                                                             | To be discussed in discovery.                                                                                              |

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|     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | review/acceptance of milestone deliverables and processing of the corresponding invoices, particularly where payment is contingent upon formal acceptance by OIL?                                              |                                                                                                                                                                                                                                                                                                                                                                                |
| 522 | BEC | Bidders who themselves do not meet the experience criteria as stipulated in Clause No. 3.1 above can also bid under the category listed below: Bid from Joint Venture Company. In case the bidder is a Joint Venture Company, it must be registered in India and incorporated under the Companies Act 1956/Companies Act 2013/Limited Liability Partnership Act 2008 and amendments thereunder, and comply with Clause 2.0. The JV itself shall meet Clause 3.1, or any JV member with at least 26% stake shall independently meet Clause 3.1. | With reference to Experience Criteria Clause 3.1, kindly allow consortium bidding in addition to the existing provisions for Joint Venture companies.                                                          | Tender terms shall prevail.                                                                                                                                                                                                                                                                                                                                                    |
| 523 | BEC | The bidder must have successfully executed/completed at least one qualifying solution in the last seven years from the original bid closing date for asset-intensive projects, including Oil & Gas, Power & Utilities, Manufacturing, Metals & Mining, Infrastructure & Transportation, IT, Automotive, Chemicals and Electronics.                                                                                                                                                                                                             | For this clause, ongoing projects may also be considered where the bidder has successfully completed and delivered the required experience component, even though the overall project remains under execution. | Ongoing projects may also be considered, provided the bidder is able to establish the requisite experience (executed/completed) in accordance with the requirements stipulated under BEC Clause 3.1. The bidder shall submit the relevant documentary evidence as specified under the Notes to BEC Clause 3.1, establishing compliance with the requisite experience criteria. |
| 524 | SOW | The bidder must confirm in its technical bid that mobilization will be completed within 30 days from the issuance of the Letter of Award (LOA).                                                                                                                                                                                                                                                                                                                                                                                                | The bidder must confirm in its technical bid that mobilization will be completed within 60 days from issuance of the Letter of Award (LOA).                                                                    | Mobilization to be completed within 30 days.                                                                                                                                                                                                                                                                                                                                   |
| 525 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Please confirm whether EMD exemption is applicable in this tender for MSME bidders.                                                                                                                            | Please refer to Clause No. 13 of the ITB for details regarding exemption from submission of Bid Security.                                                                                                                                                                                                                                                                      |
| 526 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | What specific data comes from HYSYS, Pipesim, OLGA, CAESAR and PVElite, and from where?                                                                                                                        | To be discussed in discovery.                                                                                                                                                                                                                                                                                                                                                  |

## **ANNEXURE-I**

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| 527 |  |  | Does a common project identifier exist across Primavera, ERP and GIS today?                                                                            | To be discussed in discovery.                                                     |
| 528 |  |  | Which ERP modules hold project cost, and what interface is approved?                                                                                   | To be discussed in discovery.                                                     |
| 529 |  |  | Please confirm that all integrations are strictly read-only with no write-back, as this may impact license position, security model and risk profiles. | Read-only.                                                                        |
| 530 |  |  | At what granularity must predictions run: project, WBS level or activity?                                                                              | To be discussed in discovery.                                                     |
| 531 |  |  | When will DEV, SIT, UAT and PRD environments be available, and who will provision them?                                                                | Bidder to provision as and when required during implementation.                   |
| 532 |  |  | Against which baseline will delay be measured: original baseline, current approved baseline or contractual date?                                       | Timelines as detailed in SOW.                                                     |
| 533 |  |  | How many dashboards and reports are in scope, and which BI tool will be used?                                                                          | To be discussed in discovery.                                                     |
| 534 |  |  | Are DMS, EAM/CMMS, HRMS and risk registers in scope under Section 7?                                                                                   | No.                                                                               |
| 535 |  |  | Will non-production instances of Primavera, ERP and GIS be available for development?                                                                  | If required, the same will be explored and discussed during implementation phase. |