



CONTRACT SECTION, PHQ NOONMATI

DATE: 11th March 2023

**CORRIGENDUM – 3 FOR OIL’S GEM TENDER NO.
GEM/2023/B/2951789 Dated: 06-01-2023**

THIS CORRIGENDUM IS ISSUED TO EXTEND THE FOLLOWING:

- a) BID SUBMISSION DEADLINE: **20.03.2023 (14:00 HRS.)**
- b) TECHNICAL RESPONSE OPENING DATE: **20.03.2023 (14:30 HRS.)**

**ALL OTHER TERMS AND CONDITIONS SHALL REMAIN UNCHANGED IN THE
ABOVE TENDER**



CONTRACT SECTION, PHQ NOONMATI

DATE: 18th February, 2023

CORRIGENDUM – 2 FOR OIL’S GEM TENDER NO. GEM/2023/B/2951789

Dated: 06-01-2023

In response to the GEM TENDER NO. GEM/2023/B/2951789 dated: 06.01.2023 published by OIL for *HIRING OF SERVICES FOR “FEASIBILITY STUDY OF CO2 STORAGE IN DEPLETED/ABANDONED RESERVOIRS OF OIL INDIA LIMITED”*, several queries have been received from various agencies.

The queries were discussed in detail during the pre-bid meeting, held at OIL’s CoEES office in Guwahati, Assam and also through Video Conferencing on 24th January 2023.

Part-A of Corrigendum-2 document contains the queries and the response of OIL on the same.

Part-B of Corrigendum-2 contains the amendments issued to Tender No. GEM/2023/B/2951789.

The prospective bidders are requested to please note the queries, responses and amendments before submitting their bids.

PART-A

Replies of Pre-Bid Queries

1.0 M/s. SIAM Services India Pvt Ltd

SI No.	Bidder Clarifications	OIL Responses
1	In the Feasibility Study, Oil India Limited's intention would be to re-use existing surface infrastructure for CO2 transport and injection, or would it be a greenfield development?	We will use the existing infrastructure optimally to the extent possible with required modification to make the it CO ₂ friendly
2	What CO2 entry specification to the transport system should be assumed for study?	This point is one of the deliverables of the study.
3	What are the distances from the emitters to the CO2 sink?	The Source sink distance varies from around 30 kms to 300 kms
4	Are power sources available to supply power to CO2 compression systems, or will fuel gas sources need to be identified?	Power source is available. However, this study is more focused on sub surface aspects
5	Will any flow assurance be required on the CO2 transportation and gathering system?	Yes
6	Will the bidder have to identify the Monitoring, Measurement and Verification (MMV) approach?	Yes

2.0 M/s. HALLIBURTON INDIA OPERATIONS PRIVATE LIMITED

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
1	5.0 Scope of Work (SoW)	5.1 OIL have identified around 74 abandoned/depleted reservoirs (Annexure I). It is expected that the detailed study in Phase IV will be from the said list of reservoirs.	Bidder Requests company to provide the details that 74 reservoirs from how many fields?	In addition to identified 74 reservoirs, any reservoir mutually found to be suitable, have also to be considered in addition to aquifers. These reservoirs are spread across 15 Fields.
			Bidder requests summaries or reports from any previous screening exercises which review the fields as CO2 storage reservoirs.	Not available
			Bidder would like to understand if there is a minimum CO2 resource (e.g., capacity) requirement for the selected storage sites.	One of the objective of the study is to ascertain the storability of the individual reservoirs and identify commercial viability.
			Are the sources of CO2 emissions mapped?	Few nearby sources are identified
			Is there a minimum annual flux rate of CO2 to be sequestered?	One of the objective of the study is to ascertain the storability of the individual reservoirs and identify commercial viability with optimum CO2 injection rate.

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
2	5.0 Scope of Work (SoW)	5.3 Phase-II Vi. Consultant to assess the present-day tectonic setting using modern earthquake and seismicity data to determine potential zones of risk related to long term seal integrity	Bidder Requests company to clarify that getting the present-day earthquake and seismicity data will be in company scope.	This is in bidders scope
3	5.0 Scope of Work (SoW)	5.3 Phase-II Regional mapping of reservoirs (both depleted hydrocarbon bearing and non-hydrocarbon bearing) and aquifers	Bidder requests company to provide the below details: 1. Area Size in sq. km in which regional mapping needs to be performed?	Around 4500 sq kms
			2. How many depleted reservoirs needs to Be Mapped?	All the depleted reservoirs without significant hydrocarbon potential needs to be mapped in agreement with OIL
			3. How many saline aquifers needs to be mapped?	All the aquifers spread across OIL's operational area has to be mapped in agreement with OIL

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
4	5.0 Scope of Work (SoW)	5.4 Phase III: The main objective of this phase is to carry out the detailed study of top five (5) reservoirs/saline aquifers identified during Phase-II.	Bidder requests company to clarify that these 5 reservoirs/saline aquifers are only from 5 fields which details study needs to be performed.	Selected 5 reservoirs may not be necessarily from 5 fields. It will depend upon the technical merit and analysis.
			Bidder requests company to clarify if regional maps of saline aquifers already exist and any additional data that may be available to support saline aquifer assessment outside of the depleted hydrocarbon fields.	Regional Maps not available. OIL will provide available Seismic, log data, production testing, salinity data of tested wells and any other available relevant data.
5	5.0 Scope of Work (SoW)	Phase IV:	Bidder would like to understand: · if rock mechanics test results are available for reservoir and/or caprock	Not available. However, Cap rock data is available in few wells

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
			In case no rock mechanics test data is available, will the company be open to Bidder's recommendations, if any, on rock mechanics testing for high graded fields/saline aquifers (provided cores are available or can be acquired)	Bidders may carry out the necessary rock mechanics testing, if found required. OIL can provide cores as per availability

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
			Does the company have any specific requirements regarding software to be used for the simulations and detailed modelling?	"The Consultant(s) should use any of the below mentioned Industry Standard Geo-modelling software viz: Petrel/ Decision Space or equivalent. The geo-mechanical model may be constructed using an industry standard 3D geo-mechanical modelling software (eg. Visage or equivalent). The Consultant(s) should use any of the below mentioned Industry Standard Simulators viz: Eclipse/ Intersect/ NEXUS/IMEX (CMG)/GEM (CMG)/PumaFlow or equivalent. The Consultant(s) must ensure that these models are handed over to OIL in a format compatible to load and run in PETREL G&G/PETREL RE /ECLIPSE or CMG (IMEX)/CMG(GEM)available with OIL at no additional cost."
6	5.0 Scope of Work (SoW)	Phase I (Phase III, IV work programs) Data Availability: XV: Any other relevant data required by the consultant	Will any existing static or dynamic (history-matched) models for the depleted field be made available for the study? And if so, in which format/software?	Not available

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
7	5.0 Scope of Work (SoW)	Phase IV Consultant to carry out detailed fault seal analysis including juxtaposition plots to ascertain the seal integrity of the reservoir	Can the company provide maps of location and amount of 2D and 3D seismic data, and a sample to show the quality of these data?	This can be provided to the bidder during the data collection phase. The quality of the seismic data is moderate to good. Around 7900 sq Kms 3D and 11200 LKM 2D Seismic data in time domain is available.
8	5.0 Scope of Work (SoW)	Phase IV Deliverable xxviii: Effects of impurity on CO2 injection and storability.	Does the company expect flow assurance simulation work to be undertaken to meet the injection management requirement?	Yes
9	5.0 Scope of Work (SoW)	List of Depleted Reservoirs	There are 74 Reservoir/blocks shown as depleted with no reserves assigned although some of these carrying significant Oil volume. Are these candidates for CCUS or EOR? Do these require redevelopment studies?	No redevelopment Studies for 74 reservoir is required. This reservoirs may be a candidate for CO2 storage provided geotechnical parameters for CO2 storage is favorable.

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
10	BID EVALUATION CRITERIA (BEC)/BID REJECTION CRITERIA (BRC) BID EVALUATION CRITERIA (BEC)	<p>2.2.3 ELIGIBILITY CRITERIA IN CASE BID IS SUBMITTED ON THE BASIS OF EXPERIENCE OF SISTER SUBSIDIARY/ CO-SUBSIDIARY COMPANY: (i)</p> <p>Provided that the sister subsidiary/ co- subsidiary company and the bidding company are both 100% subsidiaries of an ultimate parent/holding company either directly or through intermediate 100% subsidiaries of the ultimate parent/ holding company or through any other 100% subsidiary company within the ultimate/holding parent company. Documentary evidence to this effect to be submitted by the ultimate parent/ holding company along with the technical bid.</p>	<p>Bidder Requests: In some parts of the world foreign companies are not allowed to have 100% ownership and thus, bidder request to reduce the Parent Company holding in subsidiary/sister from 100% to 99%</p>	Not Considered

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
11	5.4 (B) Well Integrity of the Legacy Wells	i. To examine existing well completion & integrity issue in all the wells completed in the identified reservoirs. To recommend on measures to be taken for maintaining mechanical health & integrity of Casing and completion elements	The well integrity analysis is expected for all the wells listed in the “Annexure-1” or it will be selected based on the screening criteria for potential reservoirs after Phase- II?	Detailed analysis needs to be carried out for prospective reservoirs before short listing best reservoirs in consultation with OIL
12	5.5 Phase IV: Detailed Storage plane identification (30 weeks)	xii. Consultant to provide recommendation for well design, completion and abandonment policy including cementation policy in case of newly drilled CO2 injector (if identified). Measures to be taken for maintaining mechanical health & integrity of Casing and cement for the wells	Is the “Recommendation for Well Design, Completion and Abandonment Policy” mean reviewing the existing well designs and making recommendations for improvement and making applicable recommendation to existing abandonment policy?	New well design, Completion and Abandonment Policy of wells needs to be recommended for the reservoirs where CO2 injection needs to be carried out for permanent storage purpose.

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	OIL Responses
13	8.2 Training	8.2.1 A provision for one (01) week training free of cost in each of Phase-III and Phase-IV of the projects to be kept at the Consultant's facility. The dates for the training shall be mutually agreed upon by OIL and the Consultant(s). The consultant to provide the training to a batch of around ten (10) personnel from OIL each in Phase-III and Phase-IV. However, OIL shall bear the cost of transportation, food, and accommodation for its personnel.	The training will capture the areas of all phases of the study within 1 week training. The scope will be determined mutually by OIL and Bidder?	Yes

3.0 **M/s. SK OILFIELD EQUIPMENT CO. PVT. LTD.**

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	Remarks/Reason for change	OIL Responses
1	BID EVALUATION CRITERIA (BEC)/BID REJECTION CRITERIA (BRC) 2.2.1 BID FROM INDIAN COMPANY WITH TECHNICAL COLLABORATION: Clause (i)	i) The primary bidder (Indian Company) should have experience of carrying out at least (one) 01 sub-surface related study of Oil and Gas Field over the last 10 years period on its own. In this regard the primary bidder must submit contract documents showing details of work and a job completion certificate (or equivalent documents proving the job completion) showing work order number / contract no, nature of job done and date of completion.	i) The primary bidder (Indian Company) should have experience of carrying out at least (one) 01 sub-surface related study of Oil and Gas Field over the last 10 years period on its own or by a company majority owned by Primary Bidder. In this regard the primary bidder must submit contract documents showing details of work and a job completion certificate (or equivalent documents proving the job completion) showing work order number / contract no, nature of job done and date of completion.	This will allow maximum participation of bidders meeting both Technical and Financial Bid Evaluation Criteria.	Not Considered

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	Remarks/Reason for change	OIL Responses
2	Scope of work 5.1	OIL have identified around 74 abandoned/depleted reservoir (Annexure I). It is expected that the detailed study in Phase IV will be from the said list of reservoirs.	Are there any geological model available for any of these 74 reservoirs?	Will be needed in phase IV 5.5A of the scope where detailed storage plan for top 2 reservoirs is developed	Geological models are not available for the mentioned 74 reservoirs. In phase IV, the bidder has to construct GCM, geo mechanical model and carry out simulation for the 2 best identified reservoirs. This is clearly stated in Scope of Work
4	Scope of work 5.1	OIL have identified around 74 abandoned/depleted reservoir (Annexure I). It is expected that the detailed study in Phase IV will be from the said list of reservoirs.	How many of the 74 reservoirs depleted oil and gas reservoirs vs. saline aquifers for co2 storage?		All the 74 reservoirs are depleted oil and gas reservoirs. Study is not concentrated only for these 74 reservoirs. This is just a preliminary screening based on reserves for OIL's reservoir
5	Scope of work 5.1	OIL have identified around 74 abandoned/depleted reservoir (Annexure I). It is expected that the detailed study in Phase IV will be from the said list of reservoirs.	Any data available on regional tectonics/stress distribution and regional natural seismicity for each of the 74 reservoirs?		No

Sr. No	Clause No. of Bidding Document	Clause	Bidder Clarifications	Remarks/Reason for change	OIL Responses
6	Scope of work 5.4	Phase III: Reservoir Level Screening for probable CO2 Storage (12 weeks)	Does this scope require study of each and every legacy well completion and detailed analysis for possible failures or a study in general about legacy well completions in that area and provide an insight into risk assessment for group of legacy wells located in that area?		The well completion and integrity of around 15 best prospective reservoirs have to be studied during phase - III before finalizing the best 5 reservoirs
7	Scope of work 5.5 iii	Consultant to carry out geo-mechanical assessment of fracture gradient of caprock and other relevant parameters and evaluate how much pressure it can withstand before seal breach and/ or fault reactivation	Any existing geomechanics study data available from any of the reservoirs?		Around 4 wells have rock mechanical core test data of cap rock

4. M/s. Aperion Management Private Limited, Delhi

Clause no.	Existing clause description	Queries /modifications proposed by the bidders	OIL Responses
2.1.1 of BID EVALUATION CRITERIA (BEC) (TECHNICAL EVALUATION CRITERIA)	The bidder must be an Oil and Gas consultancy firm and must have an experience in consultancy work related to oil and gas business in sub surface studies for a period of at least 07 (seven) years from the original bid closing date OR should have carried out works similar to those described in Clause no. 5.0 of the Scope of Work (SoW)/ Terms of Reference (TOR) for a period of at least 07 (seven) from the original bid closing date.	The contractor is requesting to give relaxation in company experienced should be 5 years from the latest date of bid closing date.	Request for modification cannot be considered.
2.2.2 of BID EVALUATION CRITERIA (BEC) (TECHNICAL EVALUATION CRITERIA)	<p>ELIGIBILITY CRITERIA IN CASE BIDS ARE SUBMITTED ON THE BASIS OF EXPERIENCE OF THE PARENT/SUBSIDIARY COMPANY:</p> <p>Offers of those bidders (complying to clause 2.0 above) who themselves do not meet the experience criteria as stipulated in clause nos. 2.1 can also be considered provided the bidder is a 100% subsidiary company of the parent company [supporting company] which meets the above mentioned experience criteria, or the parent company can also be considered on the strength of its 100% subsidiary [supporting company].</p>	In this tender to meet the Eligibility criteria on the basis of experience of the parent /subsidiary company. The contractor is requesting to consider the 51 % subsidiary company of the parent company to meet the above experience criteria or the parent company can also be considered on the strength of its 51% subsidiary [supporting company] to meet the above experience criteria.	Request for modification cannot be considered.

Clause no.	Existing clause description	Queries /modifications proposed by thew bidders	OIL Responses
	<p>However, the parent/subsidiary company of the bidder should on its own meet the experience as stipulated in the BEC and should not rely for meeting the experience criteria on its sister subsidiary/co-subsidiary company or through any other arrangement like Technical Collaboration agreement.</p> <p>In case of subsidiary company dependent upon the experience of the parent company or vice versa with a view to ensure commitment and involvement of the parent/subsidiary company for successful execution of the contract, the participating bidder should enclose an Agreement (as per format enclosed as PROFORMA-XXI)between the parent and the subsidiary company or vice-versa and Parent / Subsidiary Guarantee (as per format enclosed as PROFORMA-XXII) from the parent/subsidiary company to OIL for fulfilling the obligation under the Agreement, along with the technical bid.</p> <p>In the situations mentioned above, following conditions are required to be fulfilled /documents to be submitted. (i) Bidders quoting under the categories as mentioned under Clause No 2.2.2</p>		

Clause no.	Existing clause description	Queries /modifications proposed by thew bidders	OIL Responses
	<p>above, should provide the respective services including key personnel throughout the duration of the Contract period during execution of the contract. A declaration as per PROFORMA-XIX in this respect to be submitted as part of the technical bid.</p> <p>(ii) Financial: The bidder can bid on the financial strength of the parent/ultimate parent/Holding company (as per clause 7.0 below). However, the bidder should be 100% subsidiary of the parent/ultimate parent/Holding company. All other relevant supporting documents to be provided after inspection/certification accordingly</p>		

Clause no.	Existing clause description	Queries /modifications proposed by thew bidders	OIL Responses
7.0 BID EVALUATION CRITERIA (BEC) (FINANCIAL EVALUATION CRITERIA)	FINANCIAL EVALUATION CRITERIA: a) Annual financial turnover as per Audited Annual Reports in any of the preceding 3 financial years to be reckoned from the original bid closing date should be at least Rs 6,07,41,000.00 b) For consortium i) At least one member of the consortium to meet the above criteria of Rs 6,07,41,000.00 turnover. ii) The other members of consortium should meet minimum turnover requirement of Rs 3,03,70,500.00	The contractor is also requesting to give relaxation in the financial criteria	Requirement of minimum Annual Turnover is as per Standard BEC-BRC conditions of OIL. BEC-BRC Clause for Annual turnover of Consortium i.e. 7(b) of PQC stands deleted. Please check amendment issued in Part B of this Corrigendum.
5.0 QUALITY & COST BASED SELECTION (QCBS) METHODOLOGY:	Experience of the Consultancy Firm as Oil and Gas service provider as per Clause 2.1.1	The Weightage of QCBS in experience of the consultancy firm should not be required as a nos. of years of experience. New companies will be disadvantaged against these old companies, even though the new companies have CCUS experience, have experienced talent pool and they are agile & innovative. The technical scoring should be done on People and CCUS project experience. The contractor requested to remove this QCBS for company experience.	Cannot be considered

Clause no.	Existing clause description	Queries /modifications proposed by thew bidders	OIL Responses
3.0 0 BID EVALUATION CRITERIA (BEC)	<p>CORE TEAM MEMBERS</p> <p>iv) All the team members including the Project Manager must be a regular fulltime employee of the Consultant at the time of award of Contract. Documentary evidence supporting it must be submitted for all the team members prior to mobilization.</p>	The contractor requested to remove the condition of regular fulltime employee. Still We will ensure to fulfil your requirement by the providing highly experience technical core team.	Cannot be considered
5.0 Mobilization	<p>MOBILISATION TIME: The bidders must confirm their compliance in their ‘technical’ bid to complete the mobilization within 30 (thirty) days from the date of issue of Letter of award (LOA). Offers without confirmation of stipulated mobilization time or with mobilization time more than 30 (thirty) days will be summarily rejected. The bidder shall confirm compliance of this in their technical bid</p>	The contractor requested to increase the mobilization time upto the 60 (Sixty) days.	Cannot be considered

5. **M/s. SLB - Digital**

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
Bid Document				
1.	Mobilization Period	30 DAYS from the date of issue of mobilization notice by Engineer/ Manager in charge at COEES Office of OIL in Guwahati after issuance of Letter of Award (LOA).	Request OIL to increase the mobilization period to 45 days from 30 days	Cannot be considered
BID DOCUMENTS – GEM				
2.		This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to this Service as provided in the Marketplace. However in case if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement, then it will override the conditions in the General Terms and Conditions.	Bidder notes that though the tender documents include General Terms and Conditions on GeM 4.0 (Version 1.2), the same is not referred in the precedence of documents. OIL to please confirm the order of precedence is as follows for the services contract: 1. Section II – Special Conditions of Contract; 2. Section I – General Conditions of Contract; 3. General Terms and Conditions on GeM 4.0 (Version 1.6) dt 29 th Dec 2022	In case of an irreconcilable conflict between OIL's General Conditions of Contract, Special Conditions of Contract, and GEM's General Conditions of Contract, the following shall prevail to the extent of such irreconcilable conflict in order of precedence: i) Special Conditions of Contract ii) OIL's General Conditions of Contract iii) General Terms and Conditions on GeM

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
GENERAL TERMS AND CONDITIONS ON GeM 4.0 (Version 1.4)				
3.	2 i	<p>Please amend the clause below:</p> <p>“LICENSE” shall mean by registering the Seller and by offering Product / Service details on GeM, the Seller grants GeM a non-exclusive, royalty-free, irrevocable, perpetual and fully sub-licensable right to use, reproduce, modify, adapt, publish, translate, distribute, and/or display the content/materials which has been submitted to GeM excluding Aadhaar No. In case of registration of Primary user and creation of secondary user(s) by the Buyer/Seller, their Aadhaar (UID) details collected by GeM are solely for user verification and to apply e-signing on the documents. The e-sign is at par with digital signatures as per Information Technology Act Amendment 2008 and it works based on details available in Aadhaar database of UIDAI and there is no interference / intrusion in their personal details.</p>	<p>Since this is a consultancy tender, we request OIL to clarify the applicability of this clause. In case its applicable we would request for the change since we would only provide the right to use the license under this contract.</p>	<p>Standard clause of GEM and cannot be modified</p>

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
4.	GTC, 3.A xi	Sellers shall offer minimum discount of 10% on the Maximum Retail Price (MRP) mandatorily (unless otherwise specified for offering their products on GeM). Sellers are free to offer higher discounts. The Seller must offer its best possible lowest price on GeM and undertake that it would not sell or offer to sell the same product outside GeM in comparable quantity on similar terms and conditions at a price equal to or lower than Offer Price on GeM. In case any such infringement by Seller is noticed, the Seller shall be liable to be removed / debarred from the GeM.	OIL to kindly clarify the applicability of this provision.	Standard clause of GEM and cannot be modified
5.	GTC, 3.A xii	By offering their product on GeM, the Seller agrees for sharing price details of the offered Goods / Service by GeM authorities with other Government agencies including Department of Excise & Customs, Income tax, GST etc.	OIL to kindly clarify the applicability of this provision.	Standard clause of GEM and cannot be modified

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
6.	GTC, 3.A xiii	<p>Sellers shall ensure uploading of their product / service in the correct category in all respects. Any offering of wrong and misleading product(s) or service(s) in any of the category will be removed by GeM from the portal when noticed without making any reference to the seller(s). The seller(s) will also be liable for any other Administrative action as deemed fit by GeM for uploading wrong product(s) or service(s) in any category.</p> <p>If any such infringement made by Seller leads to placement of a contract by any Buyer for such inappropriately offered product(s) / service(s) by the Seller, such contract shall be treated as null and void.</p> <p>No claim whatsoever against such contract shall be admissible and entertained.</p>	OIL to kindly clarify the applicability of this provision.	Standard clause of GEM and cannot be modified

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
SECTION-I: GENERAL CONDITIONS OF CONTRACT (GCC)				
7.	1.2.11 SERVICE/WORKS/ OPERATIONS	<p>Please amend the definition as below: Shall mean and include all items and things to be supplied/done and all work/Service to be performed by the CONTRACTOR as specified <u>and mutually agreed</u> in the Scope of Work under this CONTRACT and shall also include all extra, additional, altered or substituted works/services as required for the purpose of successful execution of the Contract.</p>	Any extra/ additional work or alteration or substitution of work / services to be mutually agreed.	Standard GCC clause of OIL and cannot be modified. Scope of work shall be as per tender and is non-negotiable
8.	1.2.14 SPECIFICATIONS	<p>Please amend the definition as below: Means and includes all technical specifications, provision attached and referred to in the tender/contract document regarding method and manner of performing the services and qualities of the service/materials to be provided under the contract and also as modified <u>upon mutual agreement by the parties</u> COMPANY/its site representative during the execution of contract in the best interest of service.</p>	Bidder requests this change since any changes to the specifications to be mutually agreed.	Standard GCC clause of OIL and cannot be modified.

9.	INSURANCE	<p>14.1 Please amend the clause below: Contractor at his cost shall arrange, secure and maintain insurance as may be necessary and to its full value for all such amounts to protect the works in progress from time to time and the interest of Company against <u>to cover</u> all risks <u>assumed by Contractor</u> as detailed herein. The form and the limit of such insurance, <u>shall be</u> as defined here in together with the under works thereof in each case should be as acceptable to the Company. However, irrespective of work acceptance the responsibility to <u>To</u> maintain adequate insurance coverage at all times during the period of Contract shall be that of Contractor alone. Contractor's failure in this regard shall not relieve him of any of his responsibilities & obligations under Contract. All costs on account of insurance liabilities covered under Contract will be to Contractor's account and will be included in Value of Contract. However, the Company may from time to time, during the currency of the Contract, ask the Contractor in writing to limit the insurance coverage risk and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in value of Contract to the extent of reduced premium amounts. Contractor shall cover insurance with Indian Insurance Companies <u>to the extent required as per the regulations.</u></p>	<p>Since this is an office-based job except Employers' Liability Insurance, all other insurance requirements are not applicable.</p>	<p>Standard GCC clause of OIL and cannot be modified</p>
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S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
10.	14.6	<p>Please amend the clause below:</p> <p>Contractor shall also inform the Company at least 60 30 days in advance regarding the expiry cancellation and/or changes in any of such documents & ensure revalidation/renewal, etc., as may be necessary well in time.</p>	<p>We request the notice period to be limited to 30 days as it is the standard practice of the industry and it is in contradiction with clause 14.5 (e).</p> <p>This clause was amended in Tender No. CDG7411L22 for Hiring of 03 (Three) Nos. Wireline Logging Units with Services.</p>	<p>Standard GCC clause of OIL and cannot be modified</p>

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
11.	14.7	<p>Please amend the clause below:</p> <p>If any of the above policy expire or/are cancelled during the term of this CONTRACT and CONTRACTOR fails for any reason to renew such policies, OIL in no case shall be liable for any loss/damage occurred during the term when the policy is not effective. Furthermore, a penal interest @1% of the Total contract value shall be charged towards not fulfilling of the contractual obligations. Notwithstanding above, should there be a lapse in any insurance required to be taken by the Contractor for any reason whatsoever, loss/damage claims resulting therefrom shall be to the sole account of Contractor.</p>	<p>Bidder requests deletion of this penal interest provision as Contractor will any way be liable or responsible for the obligation undertaken in the contract, whether the insurance is maintained or not.</p>	<p>Standard GCC clause of OIL and cannot be modified</p>

12.	14.8	<p>Please amend the clause below:</p> <p>Contractor on demand from Company shall furnish the Insurance Policy having detail terms and conditions, with respect to any Certificate of Insurance submitted to the Company.</p> <p>CONTRACTOR shall, at his own expense, arrange appropriate comprehensive insurance to cover all risks assumed by the CONTRACTOR under this CONTRACT in respect of CONTRACTOR's equipment, tools and any other belongings of the CONTRACTOR and its personnel as well deputed under this CONTRACT during the entire period of their engagement in connection with this CONTRACT including extensions if any. The CONTRACTOR shall also carry adequate insurance cover against damage/loss to third party person/property, <u>but to the extent of the Contractor's liabilities under the Contract.</u> OIL will have no liability on this account.</p>	<p>Bidder requests deletion of this requirement as the policy is confidential, Bidder will not be able to share with OIL. In addition, the certificates of insurance include all mandatory information to evidence our compliance with the contractual insurance requirements.</p> <p>This (third party) will be subject to the liabilities of Contractor under the Contract.</p>	<p>Standard GCC clause of OIL and cannot be modified</p>
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S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
13.	14.9 PRINCIPAL ASSURED	<p>Please replace the clause with the below:</p> <p><u>Oil India Limited is to be named additional insured on the insurance policies, (except in case of Workmen's Compensation / Employer's Liability Insurance) limited only to the extent of liabilities assumed by Contractor under this Contract.</u></p>	<p>Bidder requests this change as additional insured is the standard language used in the Oil and Gas contracts.</p> <p>This clause was amended in Tender No. CDG7411L22 for Hiring of 03 (Three) Nos. Wireline Logging Units with Services.</p>	Standard GCC clause of OIL and cannot be modified

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
14.	14.1 Waiver of Subrogation	<p><u>Except for the workmen's Compensation / Employer's Liability Insurance for workmen engaged under this contract which have been obtained by the contractor as their corporate policy/rules, where OIL is neither required to be present as principal Assured or additional Assured,</u> all insurance policies of the CONTRACTOR with respect to the operations conducted hereunder as set forth in clauses hereof, shall be endorsed by the underwriter in accordance with the following policy wording:</p> <p>“The insurers hereby waive their rights of subrogation against Oil India Limited or any of their employees or their affiliates and assignees <u>to the extent of the indemnities undertaken by the Contractor under this Contract</u>”</p>	<p>Bidder requests this change since waiver of subrogation will be to the extent of indemnities assumed by the Contractor under the contract.</p> <p>This clause was amended in Tender No. CDG7411L22 for Hiring of 03 (Three) Nos. Wireline Logging Units with Services.</p>	Standard GCC clause of OIL and cannot be modified

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
15.	14.12 COMPLIANCE WITH SEC 25(1), OF “THE GENERAL INSURANCE BUSINESS (NATIONALIZATIO N) ACT 1972”	Please delete the entire clause.	<p>Bidder requests deletion of this provision as it is not relevant for scope envisaged in this tender.</p> <p>This change was agreed in Tender No. CDG7411L22 for Hiring of 03 (Three) Nos. Wireline Logging Units with Services.</p>	Standard GCC clause of OIL and cannot be modified
16.	14.13 LOSS PAYEE CLAUSE	Please delete the entire clause.	<p>Bidder requests deletion of this provision as it is not relevant for scope envisaged in this tender.</p> <p>This change was agreed in Tender No. CDG7411L22 for Hiring of 03 (Three) Nos. Wireline Logging Units with Services.</p>	Standard GCC clause of OIL and cannot be modified

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
17.	14.14 ON ACCOUNT PAYMENT TO OIL IN CASE OF CLAIM	Please delete the entire clause.	Bidder requests deletion of this provision as it is not applicable as per the indemnity provisions of the contract.	Standard GCC clause of OIL and cannot be modified
18.	14.16 ii) COMMERCIAL GENERAL LIABILITY INSURANCE	Please delete the obligation to maintain this insurance.	Bidder requests deletion of this requirement since it is not relevant considering the scope of work.	Standard GCC clause of OIL and cannot be modified
19.	14.16 iii) COMPREHENSIVE GENERAL AUTOMOBILE INSURANCE	Please delete the obligation to maintain this insurance.	Bidder requests this change since the vehicles deployed will have the insurances as per the laws / regulations of India, hence Bidder shall not be providing any additional insurances	Standard GCC clause of OIL and cannot be modified
20.	14.16 iv) CARRIER'S LEGAL LIABILITY INSURANCE	Please delete the obligation to maintain this insurance.	Bidder requests deletion of this requirement since the equipment are self-insured.	Standard GCC clause of OIL and cannot be modified

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
21.	14.16 v) PUBLIC LIABILITY ACT POLICY	Please delete the obligation to maintain this insurance.	Bidder requests deletion of this requirement since it is not relevant considering the scope of work.	Standard GCC clause of OIL and cannot be modified
22.	14.16 vi) PRADHAN MANTRI SURAKSHA BIMA YOJNA (PMSBY)AND PRADHAN MANTRI JEEVAN JYOTI BIMA TOJANA (PMJJBY)		Bidder requests OIL to kindly confirm if this is applicable for contract labourer only and not for cases where Contractor employs its employees.	Standard GCC clause of OIL. As per Govt requirement

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
23.	14.16 vii)	<p>Please amend the clause as below: CONTRACTOR's equipment used for execution of the work hereunder shall have an insurance cover with a suitable limit (as per international standards) <u>or Contractor shall have the right to self-insure, except while the equipment are below rotary table or in the well bore.</u></p>	<p>Contractor shall have the option to self-insure its equipment. Insurance or self-insurance shall not be applicable for equipment while below rotary table or in the well bore.</p>	<p>Standard GCC clause of OIL. and cannot be modified</p>
24.	23.1 WARRANTY AND REMEDY OF DEFECT	<p>Please amend the clause as below: CONTRACTOR warrants that they shall perform the work in a first class, workmanlike, and professional manner and in accordance with their highest degree of quality, efficiency and current state of the art technology/industry practices 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 <u>as per Contract.</u></p>	<p>Bidder requests to revise the warranty provision to link it with the scope of work of the tender.</p>	<p>Standard GCC clause of OIL and cannot be modified</p>

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
25.	25 RECORDS, REPORTS AND INSPECTION	<p>Please amend the clause as below:</p> <p>The CONTRACTOR shall, <u>upon serving prior written notice of minimum 7 days,</u> at all times during the currency of the contract, permit the COMPANY and its authorized employees and representatives to inspect all the Work performed and to witness and check all the measurements and tests made in connection with the said work (...)</p>	Bidder requests for any inspection to be made upon serving prior written notice	Standard GCC clause of OIL and cannot be modified

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
26.	SET-OFF	<p>32</p> <p>Please amend the clause as below: Any sum of money due and payable to the CONTRACTOR (including Performance Security refundable to them) under this or any other Contract, whether in progress or in future, may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the CONTRACTOR with OIL (or such other person or persons contracting through OIL). <u>after giving 7 days prior written notice to Contractor.</u></p>	<p>If all provisions like payment due under the contract or PBG are exhausted to recover the payment due to OIL by Contractor as per Contract, then only OIL to invoke this clause. Bidder requests OIL to kindly confirm and modify the clause accordingly.</p>	<p>Standard GCC clause of OIL and cannot be modified</p>
27.	33 Withholding	<p>COMPANY may withhold or nullify the whole or any part of the amount due to CONTRACTOR, after informing the CONTRACTOR of the reasons in writing, on account of subsequently discovered evidence in order to protect COMPANY from loss on account of:</p>	<p>Company should not “nullify” any amount due to the contractor.</p>	<p>Standard GCC clause of OIL and cannot be modified</p>

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
28.	33.8	COMPANY reserves the right to disburse or deposit the amount so withheld to the concerned person(s) or agency or government authority, as the case may be, besides nullifying such amount on account of loss suffered <u>claims received</u> by the COMPANY against 33.2, 33.3, 33.6 & 33.7 above.	Company should not “nullify” any amount due to the contractor.	Standard GCC clause of OIL and cannot be modified

29.	45 TO DETERMINE THE CONTRACT	<p>Please amend the clause as below:</p> <p>In such an event (i.e. termination under Article No. 44.4 to 44.9 44.8 above), the contract shall stand terminated and shall cease to be in force from the date of such notification by the COMPANY. 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 any of its sureties if any, shall be liable to the COMPANY for any excess cost occasioned by such work having to be so taken over and completed by the COMPANY <u>provided that such excess cost shall be limited to 50% of the cost of defaulted work mentioned in the Contract</u> over and above the cost at the rate/cost specified in the schedule of quantities and rates/prices.</p>	<p>Since 44.8 is for termination for OIL's convenience, Bidder requests removal from this provision.</p> <p>Contractor cannot take risk in such cases.</p> <p>The excess liability to be limited to 50% of the cost of such defaulted work mentioned in the Contract.</p>	<p>Standard GCC clause of OIL and cannot be modified</p>
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30.	46.0 WITHOUT DETERMINING THE CONTRACT:	<p>Please amend the clause as below:</p> <p>In such an event (i.e. termination under Article No. 44.4 to 44.9 44.8 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 and any of its sureties are liable to the COMPANY for any excess cost subject to a maximum of the contract value payable for the defective work which needs corrective action <u>provided that such excess cost shall be limited to 50% of the cost of defaulted work mentioned in the Contract.</u> 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>	<p>Since 44.8 is for termination for OIL's convenience, Bidder requests removal from this provision.</p> <p>Hiring of any other party cannot be at the "risk" of the Contractor.</p> <p>Contractor's liability to be capped</p>	Standard GCC clause of OIL and cannot be modified
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S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
SECTION-II: SPECIAL CONDITIONS OF CONTRACT (SCC)				
31.	Patent Indemnity (New Clause)	<p>Please add this new clause below:</p> <p><u>Contractor shall not be liable for any intellectual property infringement due to (a) specific modification or design of Contractor's goods or services to meet OIL's specifications, (b) combination of Contractor's goods or services in combination of other products and/or services not recommended by Contractor, (c) out of unauthorized additions or modifications to Contractor goods by OIL, or (d) OIL's use of Contractor's goods or services that does not correspond to Contractor's published standards or specifications;</u> <u>in which case, OIL shall indemnify and hold Contractor harmless from any claims.</u></p>	<p>We request OIL to please add these standard exclusions for IP Infringement. This has been agreed by OIL in several POs including: § Contract No. 6118087</p>	Cannot be considered

32.	Intellectual Property Ownership (New Clause)	<p>Please add this new clause below:</p> <p><u>While providing the goods/services to Company, Contractor may utilize expertise, know-how and other intellectual capital (including intellectual property) and develop additional expertise, know-how and other intellectual capital (including intellectual property) which are the Contractor's exclusive property and which Contractor may freely utilize in providing goods/services for its customers. Except where expressly and specifically indicated in writing and in exchange for appropriate agreed payment, Contractor does not develop any intellectual property for ownership by OIL. Contractor retains sole ownership of any such intellectual capital (including intellectual property) created by Contractor during the course of providing the goods/Services. Contractor grants no title, license or right to OIL to use Contractor Group's intellectual capital (including intellectual property).</u></p>	<p>We request OIL to please add the standard clause on Intellectual Property Ownership. This clause was agreed in all contracts including:</p> <p>Contract No. 6116940 dated 10 May 2022</p> <p>Contract No. 6116167 dated 2 May 2022</p>	Cannot be considered
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33.	Data Liability (New Clause)	<p>Please add this new clause below:</p> <p><u>OIL shall at all times be responsible for the product(s) provided by OIL and for providing back up for data files. It is clearly understood that Contractor has no liability for loss, damage, or destruction to any OIL data, except in the case of intentional misconduct, in which case Contractor's sole liability is limited to reloading the data from the most recent database back-up. In no event shall Contractor ever be liable for reacquiring OIL's data.</u></p> <p><u>Notwithstanding anything to the contrary in the Contract, interpretation, recommendations and / or well or reservoir descriptions, deliverables and decisions may involve information and data furnished by OIL, the accuracy and reliability of which are not the responsibility of Contractor. Under no circumstances should OIL treat or rely upon the use of the services or any deliverable as the sole basis for any decision, be it operational, technical, financial, commercial or otherwise, related to the wellbore, the reservoir or the field, including but not limited to any decisions related to well planning, drilling safety and performance, field development, well control, production</u></p>	We request OIL to add a clause on Data Liability to protect the interest of the Contractor.	Cannot be considered
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		<p><u>optimization, contingency planning and infrastructure and systems design and optimization. Therefore, for the avoidance of doubt, Contractor does not provide warranty for the accuracy, correctness or completeness of deliverables, and OIL takes full responsibility for any decisions taken by OIL based on all interpretations, recommendations, deliverable and / or well or reservoir descriptions.</u></p>		
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34.	Interpretation Liability (New Clause)	<p>Please add this new clause below:</p> <p><u>Since all log interpretations are based on inference from electrical or other measurements, Contractor cannot and does not guarantee the accuracy or correctness of any interpretation and OIL agrees that Contractor shall not be liable or responsible for any loss, cost, damage or expense incurred or sustained by OIL resulting directly or indirectly from any interpretation made by Contractor or any of its agents, servants, officers or employees. Should any such interpretation or recommendation be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any procedure involving any risk to the safety of any drilling ventures, drilling rig, or its crew or any other individual, OIL agrees that under no circumstances shall Contractor be liable for any loss or damages on this account.</u></p>	<p>We request OIL to please include the standard clause on Interpretation Liability. This clause has been agreed by OIL in previous POs as below: § Contract No. 6112984; § Contract No. 6118087</p>	Cannot be considered
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S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
35.	Import and Export Control (New Clause)	<p>Please add the new clause below:</p> <p><u>Both Parties shall strictly comply with, and adhere to, all applicable U.S. and non-U.S. laws and regulations pertaining to economic sanctions laws, trade, import and export control. In the event of non-compliance with any trade compliance law, either Party reserves the right to terminate the Contract and such termination shall not be deemed as a breach of contract.</u></p>	Bidder requests addition of this clause to ensure compliance to the respective trade control and sanction and to avoid both criminal and civil liability.	Cannot be considered

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
36.	Rate of GST on feasibility study of CO2.	<p>For clarification:</p> <p>We understand SAC 998341 is applicable only in case of geological and geophysical consulting services about exploration and development of mineral, oil and natural gas properties, including pre-feasibility and feasibility studies. In current situation scope of work is feasibility study of CO2 storage and hence SAC 998341 should not be applicable. We request OIL to clarify on the same.</p>	<p>We request for declaration of applicable GST rate for the services.</p>	<p>Bidder shall quote and mention the applicable GST rate along with SAC code in the Price Bid</p>

37.	Change in interpretation of laws	<p>Kindly add for incorporating change in interpretation of tax laws as well by statutory authorities:</p> <p>Notwithstanding anything else contained herein, if subsequent to the date of submission of Bid, any new or additional taxes and similar levies in nature and any increased in the direct cost ,resulting from future legislation or interpretation of existing or future legislation, including and not limited to, goods and service tax, sales tax, customs duties, R&D cess, works contract tax, services tax, corporate tax, octroi, entry taxes etc. are imposed by Government or the concerned authorities which Contractor is bound to pay in respect of the payments received by Contractor in pursuance of this agreement, then such new/additional taxes/levies will be borne by Company. Additionally, any upward change in the rates of the existing taxes/levies shall be to the account of Company. In case of reduction or exemption from any taxes/levies, benefit shall be passed on to the Company.</p>		Not Considered
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S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
SCOPE OF WORK - HIRING OF SERVICES FOR “FEASIBILITY STUDY OF CO2 STORAGE IN DEPLETED/ABANDONED RESERVOIRS OF OIL INDIA LIMITED”				
1	4.1. i	Please clarify the area/LKM and domain (time/depth) of seismic data available for the study		Around 7900 sq Kms 3D and 11200 LKM 2D Seismic data in time domain is available
2	4.1.ii	No. of time/depth structure maps available?		Time/depth map are available for most of the reservoir
3	4.1.v	Bidder understands that well tops/formation tops will be provided by OIL		Yes, well tops/formation tops will be provided by OIL. However, based on the present study well/formation tops may be modified if required in consultation with OIL
4	5.4.A.i	Bidder understanding w.r.t. reservoir limit is fault boundary. Is this correct understanding? Well test interpretation being a non- unique solution might not be representative of fault boundary/ reservoir limit.		Scope of Work is self-explanatory for this point
5	Annexure 1	Does each of the specified block in the Annexure refer to one sand interval or multiple sand interval?		All the blocks are single sand interval (one hydrodynamic unit)
6	5.3 vi.	Is there a readymade database of earthquake and seismicity available with OIL?		No

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
7	4.1 vi	No. of wells with VSP, compressional sonic, shear sonic and bulk density logs		VSP= 40 wells, Dipole Sonic= around 270 wells, density logs is available in most of the wells
8	4.1 vii	<p>1. No. of wells with rock mechanical core test data</p> <p>2. Are initial and current pressure measurements in the reservoirs of interest? If yes, how many wells?</p> <p>3. are there any stress tests (mini-frac or DFIT) done in the reservoirs of interest as well as caprock? If yes, how many wells?</p> <p>Are there image logs and interpretations available?</p>		<p>1. Around 4 wells have rock mechanical core test data of cap rock</p> <p>2. Pressure data for most of the reservoirs are present.</p> <p>3. Stress test is not available</p> <p>4. Image logs for around 70 wells are available</p>
9	5.1	Phase-I: Bidder understands that the database will be build based on data as provided by OIL, it will not involve any data QC or clean up or preparation steps.		Data preparation/QC/clean up required
10	5.1	Phase-IV: Bidder understands “storage plan” is suitable reservoir/ reservoirs for CO ₂ storage		Details are given in the SOW phase-4 and self-explanatory

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
11	5.3 i.	Bidder understands that preliminary parameters are qualifying criteria mutually agreed with OIL, that will be used for initial screening of database prepared in Phase-I		This point is Self-explanatory
12		Is there any planned CO2 injection scenarios (e.g. rate, well type, etc.) for dynamic model? If yes how many scenarios? high purity CO2 will be modelled. Please confirm.		The initial points are Self-explanatory. Effects of impurity on CO2 injection and storability needs to be carried out as part of Phase-4
13		Do you have any previous study reports? Reservoir Study? History matched models. Static Models?		No
14		<p>1. For History matching, the bidder understands that the overall pressure, and rates are the main parameters to be matched.</p> <p>2. HM will be done at well and field level for the best two screened reservoirs. Please confirm</p>		This point is Self-explanatory as per phase -4 of SOW
15		Does seismic interpretation includes also fault interpretation?		Yes
16		Do you expect seismic interpretation (surfaces) to be done in the beginning of the study? Or it will be the review of existing interpretation?		Yes, seismic interpretation (surfaces) to be done in the beginning of the study.

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
17		What is an extension of Depth Contour Structure Maps – do they cover the whole basin or concentrate only on the structural traps?		Depth contour maps cover most of the OIL's operational Area.
18		Will you provide the GDE maps per each formation? How many do you have?		OIL don't have GDE maps
19		What type of logs will you have available		Wireline/LWD logs are available in all the wells
20		Will you provide petrophysical interpretation? If yes, for how many wells?		Available data will be provided
21		For how many wells do you have well correlation		Well correlation are available for most of the wells. Available data will be provided
22		Do you have wellhead information for all the wells? If not, for how many?		X-Y coordinates are available for all the wells
23		Do you have well trajectory information for all the wells? If not, for how many?		Well trajectory is available for all deviated wells
24		Do you have any well log data in the paper format that needs to be digitized?		Yes, some of the data has to be digitized

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
25		Will you provide field reservoir characterization reports		Available data will be provided
26		Will you provide field static models?		No
27		To establish an economic model we need to perform conceptual facility design (class 5 cost estimate). This task is not specifically requested in the tender SOW. Is this your understanding as well. Please elaborate.		Industry standard economics to be provided on mutual agreement
28		You have requested a recommendation for well design. The bidder understands conceptual well design only is required. Please confirm.		This point is Self-explanatory
29		What is the expected injection period and profile (Target)?		This point is Self-explanatory
30	5.4.	Well Integrity –		1. The well completion and integrity of around 15 best reservoirs have to be studied during phase -III 2. All the data pertaining to well integrity will be provided 3. Most of the wells have CBL-VDL logs. However some old wells have logs in paper format.
		1. how many existing wells require integrity review?		
		2. How many wells have well integrity logs and other data?		
		3. How many wells have cement bond logs? What type of logs? Are they in digital format (DLIS)?		

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
31	5.5	<p>3D Geomechanics:</p> <ol style="list-style-type: none"> How many existing wells have logs (GR, density and sonic) in the overburden (up to ground level or as shallow as possible). Are seismic interpreted shallow horizons available? No seismic inversion is available (density, velocity, AI and VPVS cubes)? 3D Geomechanics model will be constructed from 1D MEMs. Please confirm/advise. Two sites for detailed study –Bidder understands that these two sites/reservoirs will be modelled (3D Geomechanics model). Please confirm. Bidder understands one-way coupled Geomechanics model will be required. Please confirm. 		<ol style="list-style-type: none"> GR and density log is available for most of the recently drilled wells. Few older wells have SP logs Seismic interpreted shallow horizons available for most of the areas. Around 40 volumes of seismic inversion is available This is self-explanatory To be decided in consultation with OIL during Study Period

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
32	5.5	<p>Economic Model:</p> <p>To perform the economic analysis of any of the storage sites, cost required to implement the storage will be required and for the cost analysis, surface facility requirements and configurations will be required.</p> <p>Bidder understands a high-level conceptual economic model is required. Please confirm/advise.</p>		Industry standard economics to be provided on mutual agreement
33	Table 1: Relevant experience of Team members	<p>Minimum number of project experience for HSE Expert is 1.</p> <p>Bidder is of the opinion that this is first of its kind study in India with such detailed scope wrt CO2 storage. The expert should be experienced in HSE laws prevailing in India. The CO2 storage project experience for the HSE expert may be waived off for this study. OIL to confirm.</p>		Not Considered

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
34	Clause 5.5 Deliverables Point XXXVII	This deliverable point pertains to project financing which will require inputs or association with the lending agencies. This deliverable at this stage is of little significance. Bidder request to remove this point from the project deliverable. Does OIL concur with this?		Not Considered
BID EVALUATION CRITERIA / BID EVALUATION CRITERIA				
1	Clause 3.0 Point i And Clause 5 QCBS methodology Point 4	Project manager with 15 years of experience in Carbon storage/Co2 EOR subsurface studies	Bidder is of the opinion that the experience requirement of project manager is quite overwhelming in terms of number of experience in Carbon storage/Co2 EOR subsurface studies. As CO2 storage projects has recently got traction, Bidder request to reconsider this experience requirement. Bidder suggest to link BEC QCBS score evaluation of point 4 on the number of CO2 storage project experience instead of number of years, similar to geomodeler and simulation engineer scoring criteria.	Not Considered

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
2	Clause 3.0 Point i	Project manager experience in Subsurface studies in Major or Independent companies	Bidder understands that The Project manager experience with service companies/consulting companies shall not be discounted. OIL to confirm.	Considered
3	Clause 3.0 Point iv	Project manager must be regular full time employee of the consultant	Bidder request to also consider ex-employee of the bidder who are now working contractual with the bidder.	Not Considered

Addendum by SLB

S. No.	Clause No. of Bidding Document	Changes / modifications proposed by the Bidders	REMARKS	OIL response
1.	5.3 Basin Level screening	Technical basis for site screening	Does OIL has set a method to verify the technical screening methodology of different bidders? More specifically does OIL want the site injectivity to be used while screening at basin level/74 blocks?	No, OIL has not set any technical screening methodology. It is under bidder's scope to formulate a suitable screening criteria agreeable to OIL.
2.	5.4	D. Assessment of Social and environmental risks	Can OIL provide any internal HSE personnel for consultation with local understanding of environmental constraints?	Can be provided from OIL's Side on request
3.	5.3 Point v	Assessment of Paleo Tectonism	May OIL specify the data available for doing this analysis?	Available data will be provided

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
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Addendum by SLB (03.02.2023)

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL response
Bid Document				
1.	BEC	<p>As per clause 5.1.2 (QCBS) of BEC, if the bidder has more experience than the minimum mentioned in clause 2.1.2, more marks will be allocated to that bidder.</p> <p>In this regard, we request OIL to kindly confirm other than for the minimum requirement in clause 2.1.2, whether bidder can show case similar work done by any of its other sister subsidiary / co – subsidiary without PCG requirements.</p>	<p>SLB has done many CCUS projects under various entities worldwide however we will not be able to submit PCG for all those projects due to our company structure. For qualifying the BEC criteria of one CCUS project we will be submitting PCG. However, for QCBS, we understand that OIL accept our sister subsidiary experience.</p>	Not Considered
BID DOCUMENTS – GEM				

S/ N	Section / Clause	Queries	Explanation/Reason/ Clarification	OIL Responses
2.	BEC - Third Party Inspection Clause 6.0 of the BEC	As per clause 6 verification by independent agencies	Since it's a GEM tender verification by third party agencies will not be required. Please reconfirm the same as mentioned in brackets against clause 6.0	VERIFICATION OF DOCUMENTS BY INDEPENDENT INSPECTION AGENCIES IS NOT REQUIRED FOR TENDER PUBLISHED THROUGH GEM PORTAL

6. M/s. Beicip-Franlab India

Tender Doc Section	Clause No.	Nature of request	Remarks / Request	OIL Responses
SCOPE OF WORK Section – 5.2 - Phase I	5.2	Clarification	<ul style="list-style-type: none"> · Please clarify the Database type. Is it a Geodatabase? When mentioning ‘additional Database for Basin level analysis,’ will this information be stored in the same database as above or a separate one? · Please clarify for all data types mentioned if they are in digital format (ASCII) or need to be digitized (e.g., from pdf scans and jpg) to be imported into the database · Please provide an estimate of the volume of the available data to be used for the study (e.g., number of wells, logs per well, the volume of seismic data, maps, etc.). 	<p>It is a geo database. Additional database will be kept separate</p> <p>Most of the data in ASCII format. May need digitisation of few key wells</p> <p>Available data will be provided</p>
SCOPE OF WORK Section – 5.3 - Phase II	5.3	Clarification	<ul style="list-style-type: none"> · What is the percentage of wells containing FMI data across the study area? (Regarding points v. and vi.) for the FMI data, where available, are they geographically distributed or locally for specific fields and wells? · Please clarify what ‘regional mapping’ signifies as a deliverable and what is ‘non-hydrocarbon bearing reservoirs’ in Deliverables section point iii. 	<p>FMI is available in around 50 wells</p> <p>Basin level mapping is a deliverable. Non hydrocarbon bearing means residual oil/aquifer reservoirs.</p>
SCOPE OF WORK Section – 5.4 - Phase III	Section A	Clarification	<ul style="list-style-type: none"> · Regarding points i and ii, does OIL India require the construction of a new geomodel or the update of the current one? 	This point Self explanatory
SCOPE OF WORK	Section D	Clarification		Available data will be provided

Tender Doc Section	Clause No.	Nature of request	Remarks / Request	OIL Responses
Section – 5.4 - Phase III			<ul style="list-style-type: none"> Please clarify the input of all data related to the activities mentioned (such as protected areas, sensitive areas, etc.). Is the required data available with OIL? 	
SCOPE OF WORK Section – 5.5 - Phase IV	Section A	Clarification	<ul style="list-style-type: none"> Regarding points i and ii, does OIL India require the construction of a new geomodel or the update of the current one? Please clarify in point viii, what ‘initialize the deeper geological zones of the structure [...] and validate oil/gas/water in place by segment’ signifies. 	<p>Construction of new geo model is required</p> <p>This point Self-explanatory and clearly stated in Scope of Work</p>
Section – I- General Conditions	10. 1	Clarification	Based on our experience with banks, 15 days seems too short for issuing the performance bank guarantee(s). We suggest having 30 days.	15-day period for PBG submission from the date of issue of LOA is standard clause of OIL. ‘No Change’
	13	Clarification	Considering the scope of services contemplated, we understand this clause is not applicable. Could you please confirm?	Standard GCC clause of OIL and cannot be modified
	16.b	Clarification	We want to reduce the max aggregate liability from 100% to 50% of the Contract Price in the SCC as the clause opens such a possibility. Could you please confirm that such a point could be negotiated and included in the SCC during contract negotiations?	Standard GCC clause of OIL and cannot be modified

Tender Doc Section	Clause No.	Nature of request	Remarks / Request	OIL Responses
	16.b	Clarification	<p>The article refers to “Intellectual Property Rights,” but the term is not defined, and there is no provision related to the protection of the Company’s and Contractor’s Intellectual Property Rights. Would it be possible to add such a clause? We propose the following clause:</p> <p>“The Contractor shall retain the Intellectual Property Rights to any of the Contractor’s proprietary information owned by the Contractor at the Effective Date or otherwise developed or discovered by the Contractor outside the Agreement and the performance of the Services.</p> <p>For the purpose of this article and thereafter, “Intellectual Property Rights” means any intellectual and/or industrial property rights including patents, copyrights, designs, trade or service marks, means, know-how and trade secrets or other similar rights in any country (all whether or not registered, including all applications for any of them and all equivalent rights in all parts of the world).</p> <p>All data and information supplied by the Company for the provision of the Services, on which the Company owns the Intellectual Property Rights at the moment of making them available to the Contractor, is and shall remain the property of the Company. Any drawing, plan, specification, design, report and other document prepared by the Contractor in performing Services shall become and remain the property of the Company and the Contractor shall deliver all such documents to the Company upon its request at the termination or expiration of this Agreement. The Contractor shall only be entitled</p>	Cannot be considered

Tender Doc Section	Clause No.	Nature of request	Remarks / Request	OIL Responses
			to retain a copy of such documents subject to the provisions of Article 26.	

Tender Doc Section	Clause No.	Nature of request	Remarks / Request	OIL Responses
	23.2	Clarification	Our understanding is that the limitation of liability, as stated in article 16.b is applicable to such remedial Work for Services. Could you please confirm?	As discussed in Pre-bid meeting. Standard GCC clause of OIL and cannot be modified
	45 & 46	Clarification	Could you please confirm that these clauses are only applicable in case of termination due to CONTRACTOR's default (i.e., in the case of Articles 44.4 to 44.7)? In addition, our understanding is that the limitation of liability, as stated in article 16 b. is applicable to the costs for which CONTRACTOR may be liable under these articles. Could you please confirm our understanding?	Standard GCC clause of OIL and cannot be modified
	49	Clarification	Clause 49 seems to be redundant with clause 12.4. Could you please confirm which clause we shall consider for GST provisions: clause 12.4 or clause 49?	Both are applicable. Standard GCC clause of OIL and cannot be modified
Service Level Agreement		Clarification	We understand that our Technical Proposal could be included in the Agreement as an additional part of the Scope of Work. Could you please confirm?	Contract agreement shall contain SoW/deliverables defined in the tender

7. M/s. Mannan Oilfield Services Private Limited

Sl No.	Reference Document	Bidder's Query	Oil India Response
1	<p>5.2 Phase I: Data Collection & Database Building, Page 4-5</p> <p>During this phase, a suitable database must be built capturing relevant subsurface and surface parameters. Additionally, a database must be created to understand and visualize the Basin level analysis in totality....</p>	<ul style="list-style-type: none">· Is it the intention of OIL to ask the contractor to prepare a separate data base?· Essentially, OIL must be using a data base system to house all this data.· Creating a separate data base system which may or may not be compatible with OIL data base system is not recommended.	<p>To prepare a new geo database with all the technical information</p>

Sl No.	Reference Document	Bidder's Query	Oil India Response
2	<p>5.3 Phase II: Basin Level Screening for probable CO2 Storage and defining the reservoir level screening criteria</p> <p>viii. Consultant to identify reservoirs/saline aquifers (in mutual agreement with OIL) from the screened structures/areas and rank them as per suitable parameters for further detailed study to be undertaken in subsequent Phases.</p>	<ul style="list-style-type: none"> · It may be noted that this exercise is being done in the first 4 weeks after the data collection. · At this point of time, any ranking will be rather premature since no rigorous analysis has been attempted. · It is suggested that this should be pushed to Phase III 	<p>This point is self-explanatory as per the Scope of Work.</p>

3	<p>Phase III: Reservoir Level Screening for probable CO2 Storage</p> <p>C. Detailed evaluation of CO2 storing capacity of the identified reservoir</p> <p>i. Consultant to review the reservoir average porosity, the thickness, the vertical extent, the water saturation, and residual hydrocarbon saturation to estimate a volume of CO2 that can be stored safely at reservoir conditions without any effect on the sealing elements</p> <p>ii. Consultant should carry out sensitivity to reservoir pressure on the CO2 volume to estimate the range of storable volumes and mass of CO2 at subsurface conditions</p> <p>iii. Consultant to report the volumes of CO2 that can be accommodated in each reservoir safely along with assessment of well injectivity</p> <p>iv. Consultant to rank the identified reservoirs depending on the storability and associated risks in consultation and agreement with OIL</p>	<ul style="list-style-type: none"> · The nature of evaluation that are required in this section would be much efficient with help of a dynamic model which relates to Phase IV. · It is suggested that this evaluation be moved to Phase IV. 	Not Considered
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4	<p>5.5 Phase IV: Detailed Storage plane identification</p> <p>vii. Detailed technical study involving a seismic to simulation modelling/workflow incorporating geo-mechanical parameters (coupling with geo-mechanical model) to evaluate the capacity and security of containment for a defined long term storage plan (100 years). The grid resolution for the dynamic model should be 50x50x0.5 m. The static model should also consider the adjoining overlying and underlying structures for dynamic simulation. In the static model, detailed structural framework, facies/rock type and property modelling need to be incorporated. Then dynamic model needs to be constructed after detailed analysis of available PVT and Core analysis data. In absence of any data, the properties may be generated using industry standard correlations based on analogous data from neighbouring reservoirs. The model then needs to be history matched with oil rate, water rate, GOR and pressure as parameters both in the field level as well as in the well level</p>	<ul style="list-style-type: none"> · OIL has identified 74 reservoirs of depleted / abandoned reservoirs for the purpose of study. · The Phase IV of study which includes construction of geological models, dynamic simulation, history matching, detailed CO2 storage potential and prediction plume movement for each of the reservoirs that pass the screening criteria. · Given the complex nature of geology in Upper Assam Basin, this task is a time intensive one. · Even if the screening criteria takes out 70 % of reservoirs, it still leaves 25 reservoirs for detailed study. · At just 30 weeks of time, this is like doing 1 reservoir per week. · OIL is requested to review the time allocation in this regard. · OIL is also requested to provide justification for a well wise history match for all the parameters in terms of their alignment with the main objective of the study. · Similar to the case of well wise history match it is not clear as to how the information about deeper layers will add value to the current study since these reservoirs are considered abandoned/depleted unless the objective of the study is 	<p>1. Study is not concentrated only for these 74 reservoirs. This is just a preliminary screening based on reserves for OIL's reservoir.</p> <p>2. For the rest of the queries, SOW is self-explanatory</p>
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	<p>and also consider the overlying or underlying reservoirs/aquifers, if any.</p> <p>viii. Initialize the deeper geological zones of the structure in the simulation model and validate oil/gas/water in place by segment compared with the fine grid static model.</p> <p>ix. The approach to be followed for carrying out the reservoir simulation study (Black Oil or Compositional) to be finalized in agreement with OIL considering data availability and nature of the candidate reservoirs/aquifers</p>	expanded to exploring development options.	
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Sl No.	Reference Document	Bidder's Query	Oil India Response
5	6.0 Personnel to be deployed by the Consultant	<ul style="list-style-type: none"> For reservoir engineers, the scope can be expanded to include CO2 EOR experience if CCUS experience is not available. This will help to widen the search net in getting the best people. 	Considered
6	<p>Bid Evaluation Criteria 2.2.1 BID FROM INDIAN COMPANY WITH TECHNICAL COLLABORATION Clause (iii)</p> <p>The Technical Collaborator will deploy a minimum of 80% of the technical workforce (under pay roll of Technical Collaborator) as mentioned in Text Table 1 of Clause 6.2 of the Scope of Work.</p>	<p>We would request Oil India to reduce this percentage to 50%. The roles which do not require previous CCUS experience (as per the QCBS) like financial expert, HSE expert, completion engineer, drilling expert, petro physicist etc. can be deployed from India by primary bidder from India as sufficient technical expertise in these domains exist in India. In case technical collaborator is a foreign company. Also, this will help in building technical capacity in India for similar future projects and increase the local content to 50% at the same time.</p>	Not considered

Sl No.	Reference Document	Bidder's Query	Oil India Response
7	<p>Bid Evaluation Criteria 3.0 Core Team Members Clause (iv)</p> <p>All the team members including the Project Manager must be a regular fulltime employee of the Consultant at the time of award of Contract. Documentary evidence supporting it must be submitted for all the team members prior to mobilization.</p>	<p>CCUS expertise is very niche and there are very few people available with sufficient experience. Most of experienced people work as freelancers as consultancy companies cannot afford to keep them employed in absence of projects. Hence, we would request that requirement of 'regular full time employee' shall be applicable for Project Manager only. Rest of core team members may be hired as contractors as is the standard practise in industry.</p>	not considered

Sl No.	Reference Document	Bidder's Query	Oil India Response
8	<p>Bid Evaluation Criteria 7.0 FINANCIAL EVALUATION CRITERIA Clause (e)</p> <p>In case of bid from Indian Company with Technical Collaboration as per Clause No. 2.2.1, the primary bidder/leader shall meet the financial criteria as mentioned in Clause No. 7.0 a and Clause No. 7.0 d.</p>	<p>We are an Indian Company planning to bid with a foreign company in a consortium. We will be the primary bidder whereas foreign company will be the technical collaborator.</p> <p>We are also a certified Start-up, we would request relaxation in financial criteria for primary bidder as per policy circular no. 1(2)(1)/2016-MA dated 10th March 2016 as issued by Ministry of Micro, Small and Medium Enterprises.</p> <p>We would request Oil India to let us comply with lower turnover requirement of INR 3,03,70,500 as allowed in clause b (ii) for other members of consortium.</p>	Not Considered

PART-B

1.0 THIS CORRIGENDUM IS BEING ISSUED TO MODIFY THE FOLLOWING:

Sl. No.	Clause No.	Present Clause	Amended Clause
	Scope of Work (SoW)		
1	5.1 Scope of Work	Phase-IV: Detailed Storage plane identification	Phase-IV: Detailed Storage plan identification
2	5.3 Phase II: Basin Level Screening for probable CO2 Storage and defining the reservoir level screening criteria Point No. vii.	Consultant to screen structures/areas within basins and rank them based on the occurrence of known depleted reservoir/saline aquifers and seal units (based on the reservoirs as per Annexure-I)	Consultant to screen structures/areas within basins and rank them based on the occurrence of known depleted reservoir/saline aquifers and seal units in agreement with OIL.
3	5.3 Phase II: Basin Level Screening for probable CO2 Storage and defining the reservoir level screening criteria Point No. viii.	Consultant to identify reservoirs/saline aquifers (in mutual agreement with OIL) from the screened structures/areas and rank them as per suitable parameters for further detailed study to be undertaken in subsequent Phases	Consultant to identify at least 15 reservoirs/saline aquifers (in mutual agreement with OIL) from the screened structures/areas and rank them as per suitable parameters for further detailed study to be undertaken in subsequent Phases.
4	5.4 Phase III: Reservoir Level Screening for probable CO2 Storage B. (Well Integrity of Legacy Wells)	To examine existing well completion & integrity issue in all the wells completed in the identified reservoirs. To recommend on measures to be taken for maintaining mechanical health & integrity of Casing and completion elements	To examine existing well completion & integrity issue in all the wells completed in top 15 reservoirs screened during Phase II. To recommend on measures to be taken for maintaining mechanical health & integrity of Casing and completion elements

Sl. No.	Clause No.	Present Clause	Amended Clause
	Point No. i.		
5	5.5 Phase IV: Detailed Storage plan identification	Phase IV: Detailed Storage plane identification (30 weeks)	Phase IV: Detailed Storage plan identification (30 weeks)
6	5.5 Phase IV: Detailed Storage plan identification A. Detailed Study through modelling Study Point No. v.	Consultant to carry out detailed 3D geo-mechanical study, near wellbore modelling, a thorough review of legacy wells and the abandonment status to identify any risks to loss of containment.	Consultant to carry out detailed 3D geo-mechanical study, near wellbore modelling, a thorough review of legacy wells and the abandonment status to identify any risks to loss of containment. Consultant to carry out sensitivity study of the concerned geo mechanical properties/ parameters for risk assessment during the modelling phase.
7	5.5 Phase IV: Detailed Storage plan identification Deliverables Point No. xxv.	The Consultant(s) should use any of the below mentioned Industry Standard Geo-modeling software viz: Petrel/ Decision Space/ RMS or equivalent. The geo-mechanical model may be constructed using an industry standard 3D geo-mechanical modelling software (eg. Visage or equivalent). The Consultant(s) should use any of the below mentioned Industry Standard Simulators viz:Eclipse/Intersect /NEXUS/IMEX(CMG)/GEM(CMG)/tNav/ PumaFlow or equivalent. The Consultant(s) must ensure that these models are handed over to OIL in a	The Consultant(s) should use any of the below mentioned Industry Standard Geo-modeling software viz: Petrel/ Decision Space or equivalent. The geo-mechanical model may be constructed using an industry standard 3D geo-mechanical modelling software (eg. Visage or equivalent). The Consultant(s) should use any of the below mentioned Industry Standard Simulators viz: Eclipse/ Intersect/ NEXUS/IMEX (CMG)/GEM (CMG)/PumaFlow or equivalent. The Consultant(s) must ensure that these models are handed over to OIL in a format compatible to load and run in PETREL

Sl. No.	Clause No.	Present Clause	Amended Clause
		format compatible to load and run in PETREL/PETREL RE /ECLIPSE available with OIL at no additional cost.	G&G/PETREL RE/ECLIPSE or CMG (IMEX)/CMG (GEM) available with OIL at no additional cost.
8	6.0 Personnel to be deployed by the Consultant, 6.2 Point b. Table 1: Relevant Experience of Team Members, Column 1 and 2	<p>Geomodeller: The Geomodeller will be responsible for the deliverables related to Static Modelling activities as per the scope of work. The Geomodeller should have working experience of sub surface studies in at least 2 different basins. Additionally, Geomodeller should have experience of developing GCM for at least one (1) CO2 Storage Project.</p> <p>The Reservoir/ Simulation Engineer: The Reservoir/Simulation Engineer will be responsible for the deliverables related to Reservoir Engineering and Dynamic Simulation activities as per the scope of work. The Reservoir/Simulation Engineer should have working experience of sub surface studies in at least 2 different basins. Additionally, Reservoir/Simulation Engineer should have experience of carrying out dynamic simulation for at least one (1) CO2 Storage Project.</p>	<p>Geomodeller: The Geomodeller will be responsible for the deliverables related to Static Modelling activities as per the scope of work. The Geomodeller should have working experience of sub surface studies in at least 2 different basins. Additionally, Geo modeler should have experience of developing GCM for at least one (1) CO2 Storage/ CO2 EOR Project</p> <p>The Reservoir/Simulation Engineer: The Reservoir/Simulation Engineer will be responsible for the deliverables related to Reservoir Engineering and Dynamic Simulation activities as per the scope of work. The Reservoir/Simulation Engineer should have working experience of sub surface studies in at least 2 different basins. Additionally, Reservoir/Simulation Engineer should have experience of carrying out dynamic simulation for at least one (1) CO2 Storage/ CO2 EOR Project</p>
9	9.2 Tentative Time Schedule Table	Phase IV: Detailed Storage plane identification	Phase IV: Detailed Storage plan identification
10	3.0 Core Team Members Point No. i)	As a part of the project execution, the contractor shall deploy a Project Manager for this consultancy study. He shall be accountable for delivery of the entire Project maintaining the desired specifications and quality within the stipulated timeframe, acceptable to	As a part of the project execution, the contractor shall deploy a Project Manager for this consultancy study. He shall be accountable for delivery of the entire Project maintaining the desired specifications and quality within the stipulated timeframe, acceptable to

Sl. No.	Clause No.	Present Clause	Amended Clause
		OIL. The minimum requisite total work experience of the Project Manger should be at least 20 years in the Oil and Gas subsurface studies with minimum of 15 years of experience in Carbon Storage/CO ₂ EOR subsurface studies in Major or Independent E&P Companies. The Project Manager should also have working experience of Carbon Storage/CO ₂ EOR related subsurface studies in at least 02 (two) different Projects as on bid closing date. Relevant documents clearly supporting the above mentioned experience is to be provided in the bid.	OIL. The minimum requisite total work experience of the Project Manger should be at least 20 years in the Oil and Gas subsurface studies with minimum of 15 years of experience in Carbon Storage/CO ₂ EOR subsurface studies in Major or Independent E&P Companies/ service companies/consulting companies. The Project Manager should also have working experience of Carbon Storage/CO ₂ EOR related subsurface studies in at least 02 (two) different Projects as on bid closing date. Relevant documents clearly supporting the above-mentioned experience is to be provided in the bid.
11	3.0 Core Team Members Point No. ii) Table 1: Relevant Experience of Team Members, Column 1 and 2	<p>Geomodeller: The Geomodeller will be responsible for the deliverables related to Static Modelling activities as per the scope of work. The Geomodeller should have working experience of sub surface studies in at least 2 different basins. Additionally, Geomodeller should have experience of developing GCM for at least one (1) CO₂ Storage Project.</p> <p>The Reservoir/ Simulation Engineer: The Reservoir/Simulation Engineer will be responsible for the deliverables related to Reservoir Engineering and Dynamic Simulation activities as per the scope of work. The Reservoir/Simulation Engineer should have working experience of sub surface studies in at least 2 different basins. Additionally, Reservoir/Simulation Engineer should have</p>	<p>Geomodeller: The Geomodeller will be responsible for the deliverables related to Static Modelling activities as per the scope of work. The Geomodeller should have working experience of sub surface studies in at least 2 different basins. Additionally, Geomodeller should have experience of developing GCM for atleast one (1) CO₂ storage/ CO₂ EOR Project.</p> <p>The Reservoir/Simulation Engineer: The Reservoir/Simulation Engineer will be responsible for the deliverables related to Reservoir Engineering and Dynamic Simulation activities as per the scope of work. The Reservoir/Simulation Engineer should have working experience of sub surface studies in at least 2 different basins. Additionally, Reservoir/Simulation Engineer should have experience of</p>

Sl. No.	Clause No.	Present Clause	Amended Clause
		experience of carrying out dynamic simulation for at least one (1) CO2 Storage Project.	carrying out dynamic simulation for atleast one (1) CO2 storage/ CO2 EOR Project.
12	7.0 FINANCIAL EVALUATION CRITERIA Point No. b.	For consortium i) At least one member of the consortium to meet the above criteria of Rs 6,07,41,000.00 turnover. ii) The other members of consortium should meet minimum turnover requirement of Rs 3,03,70,500.00.	The point 7(b) of BEC stands deleted
Sl. No.	Additional Clauses		
13	Point added in Scope of Work Clause 5.5 A after point xiv. xv) The consultant to carry out Flow assurance Study (FAS) including hydrate formation risk from compressor outlet to injection point during dynamic modeling for Compressor design and identification of optimum well head pressure temperature for injection of CO2.		
14	Point added in Scope of Work Deliverables after point xxxviii. xxxix) The consultant to provide Flow assurance Study (FAS) report mentioning the operational risk, restrictions, and mitigation plan for the design of the process. The report should also include hydrate formation risk and the remedial measure for the same. xxxx) The Consultant to provide the best possible Monitoring Measuring and Verification (MMV) scheme for the reservoirs of OIL		

15. THIS CORRIGENDUM IS ALSO ISSUED TO EXTEND THE FOLLOWING:

- a) BID SUBMISSION DEADLINE: 13.03.2023 (14:00 HRS.)**
- b) TECHNICAL RESPONSE OPENING DATE: 13.03.2023 (14:30 HRS.)**

ALL OTHER TERMS AND CONDITIONS SHALL REMAIN UNCHANGED IN THE ABOVE TENDER



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

CONTRACT SECTION, PHQ NOONMATI

DATE: 20th January, 2023

CORRIGENDUM – 1 FOR OIL’S GEM TENDER NO. GEM/2023/B/2951789

Dated: 06-01-2023

Please note the following details regarding pre-bid meeting for GEM TENDER NO. **GEM/2023/B/2951789** dated **06-01-2023** for HIRING OF SERVICES FOR “FEASIBILITY STUDY OF CO2 STORAGE IN DEPLETED/ABANDONED RESERVOIRS OF OIL INDIA LIMITED” that will be held on **24th January 2023 (Friday) from 10 AM.**

- I. Bidders may attend the Pre bid meet for the said tender through the VC link as well as physical attendance as per the Link and address provided below.
- II. **Pre-Bid Venue Address: CoEES, Oil India Limited, NRL Centre, 5th Floor Christian Basti, G. S. Road Guwahati-781005, Assam**
Mob: 9864077737
- III. A maximum of four (4) representatives of the Bidder’s firm shall be allowed to attend the pre-bid meeting.
- IV. The authorized signatory of the Bidder shall intimate to OIL the names of the individuals who will be attending the pre-bid meeting on behalf of the interested organization via an e-mail to Nodal Officer (ramanujd@oilindia.in).
- V. Only individuals, duly authorized by the Bidder, will be allowed to participate in the pre-bid meeting.
- VI. It is mandatory for all individuals attending the pre-bid meeting to fill the attendance sheet.
- VII. All individuals who attend the pre-bid meeting must clearly mention their name as well as name of their organization in the user name on Microsoft teams.
- VIII. Microsoft teams link for pre-bid meeting:

<https://oilindialimited.webex.com/wbxmjs/joinservice/sites/oilindialimited/meeting/download/7ed060b50cb243e58dd54b3c43ba8e9b?siteurl=oilindialimited&MTID=mb4cd2ad6fcc883733897a2c4248ca8ad>

More ways to join:

Join from the meeting link

<https://oilindialimited.webex.com/oilindialimited/j.php?MTID=mb4cd2ad6fcc883733897a2c4248ca8ad>

Join by meeting number

Meeting number (access code): 2562 124 9665

Meeting password: oilindia

Tap to join from a mobile device (attendees only)

[+1-415-655-0001,25621249665###](tel:+1-415-655-0001,25621249665###) US Toll

Join by phone

+1-415-655-0001 US Toll

[Global call-in numbers](#)

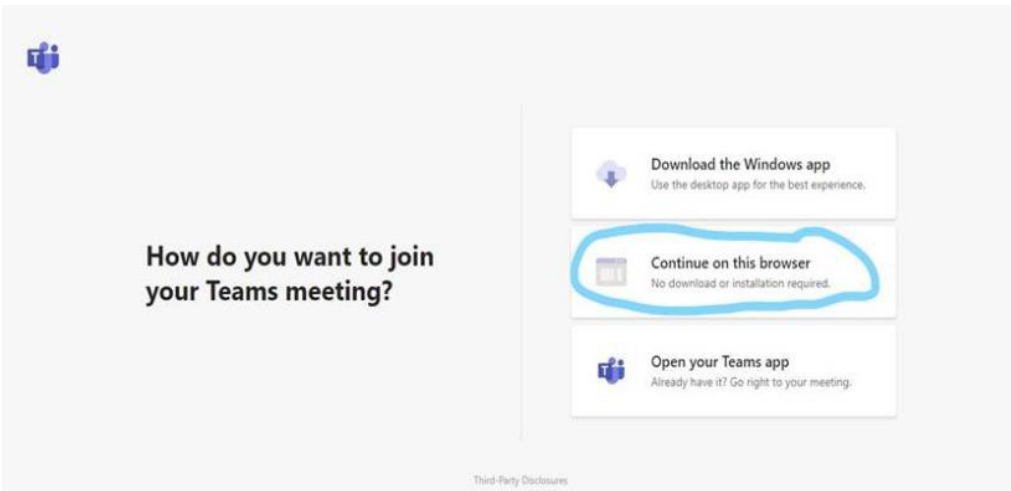
Join from a video system or application

Dial [25621249665@oilindialimited.webex.com](tel:25621249665@oilindialimited.webex.com)

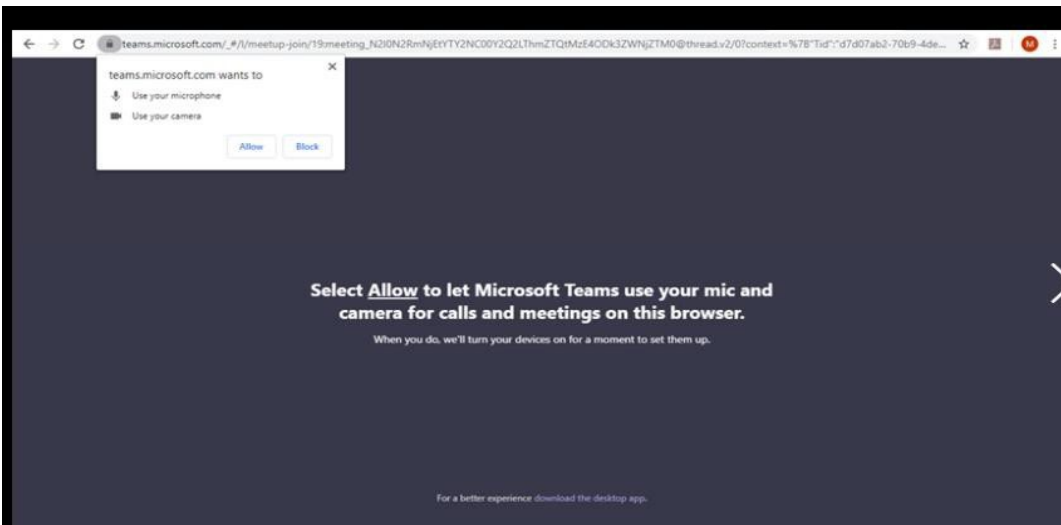
You can also dial 173.243.2.68 and enter your meeting number.

Need help? Go to <https://help.webex.com>

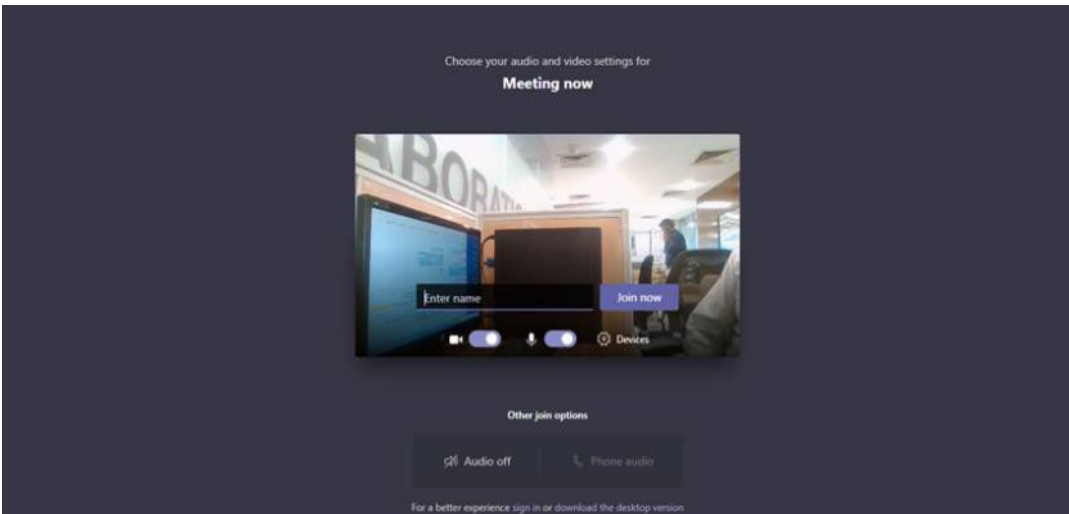
- IX. **Steps to join the pre-bid meeting:** Step 1 – Copy and paste the above link in google chrome (or any web browser) & Click on - Continue on this browser



Step 2 – Click on the Allow popup (As shown in the below image)



Step 3 – Enter your Name & Organization, then click on Join Now, after clicking join now you will be connected.



Step 4 – Once you are connected in Teams Video meeting, please put your laptop/ Desktop on mute.

ALL OTHER TERMS AND CONDITIONS SHALL REMAIN UNCHANGED IN THE ABOVE TENDER
