

**OIL INDIA LIMITED**  
(A Government of India Enterprise)  
CONTRACTS DEPARTMENT  
P.O.: Duliajan- 786602, Assam

**CORRIGENDUM NO. 02**

This **Corrigendum No. 2** dated **01.09.2026** to E-tender No. **CDI2513P27 Hiring Service for Design, Engineering, Manufacture, Supply, Testing & Commissioning of 33KV/11KV Grid Power Receiving Sub-Station at OIL Moran in LSTK-EPC basis** is issued to amend the following:

1.0 Bid Closing / Opening dates has been extended as under:

- i) Bid Closing Date & Time : Extended up to **17.09.2026 [11:00 Hrs. (IST)]**
- ii) Bid Opening Date & Time : Extended up to **17.09.2026 [14:00 Hrs. (IST)]**

2.0 Minutes of the Pre-Bid Conference held on 27<sup>th</sup> August, 2026 is enclosed herewith as **ANNEXURE-I**.

3.0 All other terms and conditions of the Bid Document (including any amendment issued thereof) remain unchanged. Details can be viewed at [www.oil-india.com](http://www.oil-india.com).

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**sd/-**  
**MANAGER-CONTRACTS (S)**

# OIL INDIA LIMITED

Pre-Bid Meeting Minutes Format  
(To be filled up by C&P Department)

**Tender No. :** CDI2513P27

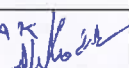
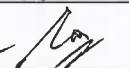
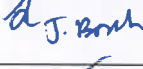
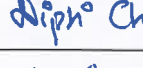
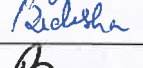
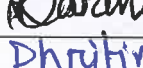
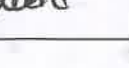
**Name of Work:** Hiring Service for Design, Engineering, Manufacture, Supply, Testing & Commissioning of 33KV/11KV Grid Power Receiving Sub-Station at OIL Moran in LSTK-EPC basis.

**Date & Time:** 27.08.2026, 10:00 Hrs. (IST)

**Venue:** TEJAS Conference Hall, Fire Service Department, Duliajan-786602

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

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

| OIL's Representative |                                                                                                                           | Bidder's Representative |                                                                                                       |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Sr. No.              | Signature, Name, Designation & date                                                                                       | Sr. No.                 | Signature, Name, Designation & date                                                                   | Firm's Name                                                                           |
| 1                    | <br>(NIRMAL BISH) GM (E)<br>27.08.2026 | 1                       | <br>DIPAK MODAK  | SIEMENS                                                                               |
| 2                    | <br>(PARTHAP BARUA)<br>DEM-E           | 2                       | <br>SURAJIT PAUL | ABB                                                                                   |
| 3                    | <br>J. Bork, manager - Labest          | 3                       |                                                                                                       |                                                                                       |
| 4                    | <br>N. Hameed MFA                      | 4                       |                                                                                                       |                                                                                       |
| 5                    | <br>Dipu Chintay                       | 5                       |                                                                                                       |                                                                                       |
| 6                    | <br>Bishu Barua                        | 6                       |                                                                                                       |                                                                                       |
| 7                    | <br>Baran Nath - CEC                   | 7                       |                  |  |
| 8                    | <br>Dhritiman Nath<br>Dy. CEE          | 8                       |                                                                                                       |                                                                                       |
| 9                    |                                                                                                                           | 9                       |                                                                                                       |                                                                                       |
| 10                   |                                                                                                                           | 10                      |                                                                                                       |                                                                                       |

## **ANNEXURE-I**

| <b>SL NO.</b> | <b>DOCUMENT</b>                                                     | <b>TENDER SPECIFICATION</b>                                                                                                                                                                                                                                                           | <b>QUERY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>RESPONSE</b> |
|---------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1.0           | As per SCC clause no. 23 .Warranty and remedy defect                | With reference to entire clause                                                                                                                                                                                                                                                       | We propose the following clause:<br>The warranty period of the supplied products shall be 18 months from date of receipt of material to the 12 months from the date of commissioning whichever is earlier. This includes any re Warranty or extended Warranty on account of repair or replacement of parts under Warranty.                                                                                                                                                                                                                                                                                                                                                   | No Change       |
| 2.0           | As per SCC clause no. 30 Timely mobilization and LIQUIDATED DAMAGE: | In the event of the Contractor's default in timely mobilization / completion within the stipulated period, the Contractor shall be liable to pay liquidated damages @ 0.5% of contract value, per week or part thereof of delay subject to maximum ceiling of 7.5% of contract value. | We propose the following clause:<br>In the event of the Contractor's default in timely mobilization / completion within the stipulated period, the Contractor shall be liable to pay liquidated damages @ 0.5% of contract value, per week or part thereof of delay subject to maximum ceiling of 5% of contract value.<br><br>In addition we propose the following:<br>Further ,in case of delay in completion of the work, request you to exercise LD rights first before exercising the termination rights i.e. until the maximum cap of 5% is reached you shall not terminate the contract. In other words, LD shall be the sole & exclusive financial remedy for delay. | No Change       |
| 3.0           | As per SCC clause no. 3 PERFORMANCE SECURITY:                       | 10% of Contract value. The performance security shall be valid for 15(Fifteen) months beyond the contract period.                                                                                                                                                                     | 10% of Contract value. The performance security shall be valid till the warranty period (12 months). <del>for 27 (Twenty Seven) months beyond the contract period.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No Change       |
| 4.0           | GCC clause no 16.0 LIMITATION OF LIABILITY:                         | a) Notwithstanding any other provisions herein to the contrary, except only in cases of Wilful misconduct and/or criminal acts and/or criminal negligence, neither the CONTRACTOR nor the COMPANY (OIL) shall be liable to the other, whether in Contract,                            | a) Notwithstanding any other provisions herein to the contrary, except only in cases of Wilful misconduct and/or criminal acts and/or criminal negligence, neither the CONTRACTOR nor the COMPANY (OIL) shall be liable to the other, whether in Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or                                                                                                                                                                                                                                                                                                  | No Change       |

## ANNEXURE-I

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|-----|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|     |                      | <p>tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided however that this exclusion shall not apply to any obligation of the CONTRACTOR to pay Liquidated Damages to the COMPANY and/or COMPANY's right to forfeit the Performance Bank Guarantee(s) in terms of the contract.</p> <p>b) Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the CONTRACTOR in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 100% of the Contract Price (if not specified otherwise in SCC), provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the CONTRACTOR, or to any obligation of the CONTRACTOR to indemnify the COMPANY with respect to Intellectual Property Rights.</p> <p>c) COMPANY shall indemnify and keep indemnified CONTRACTOR harmless from and against any and all claims, costs, losses and liabilities in excess of the aggregate liability amount in terms of clause (b) above.</p> | <p>interest costs, <del>provided however that this exclusion shall not apply to any obligation of the CONTRACTOR to pay Liquidated Damages to the COMPANY and/or COMPANY's right to forfeit the Performance Bank Guarantee(s) in terms of the contract.</del></p> <p>b) Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the CONTRACTOR in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 100% of the Contract Price (if not specified otherwise in SCC), <del>provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the CONTRACTOR, or to any obligation of the CONTRACTOR to indemnify the COMPANY with respect to Intellectual Property Rights.</del></p> <p>c) COMPANY shall indemnify and keep indemnified CONTRACTOR harmless from and against any and all claims, costs, losses and liabilities in excess of the aggregate liability amount in terms of clause (b) above.</p> |           |
| 5.0 | As per GCC clause no | 3. The number of arbitrators and the appointing authority will be as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | We waiver of point 3, 4 and 7 clause and we propose the following clause:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No Change |

## **ANNEXURE-I**

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|     | 42.2 Arbitration (Applicable for Suppliers/Contractors other than PSU and MSME): | <p>under: Claim amount (excluding claim for interest and counter claim, if any) with reference to entire clause.</p> <p>4. The Parties agree that dispute involving claims below Rs. 25 lakhs and above Rs. 5 crores shall not be subject matter of Arbitration but subject to the exclusive jurisdiction of the Court(s) situated at New Delhi.</p> <p>7. Parties agree and undertake that neither shall be entitled for any pre-reference or pendent-lite interest on its claims. Parties agree that any claim for such interest made by any party shall be void. Parties agree that a claim for any such interest shall not be considered and shall be void. The Arbitrator or Tribunal shall have no right to award pre-reference or pendent-lite interest in the matter.</p> | <p>The seat of arbitration shall be New Delhi, India. The language to be used in the arbitration proceeding shall be English. Each party to the arbitration shall be amenable to the jurisdiction of courts within the jurisdiction of which the seat of arbitration is situated for the purposes of compelling compliance with the above arbitration provisions and for the enforcement of arbitration award made by the sole arbitrator or any institutional arbitration that parties have agreed to at the time of resolution of disputes referred. The parties to the arbitration shall be governed by the laws in India.</p> |           |
| 6.0 | As per GCC clause no. 44.0 TERMINATION:                                          | <p>44.5 Termination for Unsatisfactory Performance: If the COMPANY considers that, the performance of the CONTRACTOR is unsatisfactory, or not as per the provision of the Contract, the COMPANY shall notify the CONTRACTOR in writing and specify in details the cause of dissatisfaction. The COMPANY shall have the option to terminate the Contract by giving 15 days</p>                                                                                                                                                                                                                                                                                                                                                                                                    | <p>We propose the following clause:</p> <p>44.5 Termination for Unsatisfactory Performance: If the COMPANY considers that, the material breach of contractual obligations materially affecting performance performance of the CONTRACTOR is unsatisfactory, or not as per the provision of the Contract, the COMPANY shall notify the CONTRACTOR in writing and specify in details the cause of dissatisfaction. The COMPANY shall have the option to terminate the Contract by giving 15 days notice in writing to the CONTRACTOR, if</p>                                                                                        | No Change |

## **ANNEXURE-I**

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|  |  | <p>notice in writing to the CONTRACTOR, if CONTRACTOR fails to comply with the requisitions contained in the said written notice issued by the COMPANY. In the event CONTRACTOR rectifies its non-performance to the satisfaction of the COMPANY, the option of termination may not be exercised by the COMPANY. If however CONTRACTOR repeats non-performance subsequently, COMPANY shall exercise the option to terminate contract by giving 07 days notice. Such CONTRACTOR shall be put on holiday as per the Banning Policy of OIL [available at <a href="http://www.oil-india.in">www.oil-india.in</a>].</p> <p>44.7 If at any time during the term of this Contract, breakdown of CONTRACTOR's equipment results in CONTRACTORS being unable to perform their obligations hereunder for a period of 15 successive days, COMPANY at its option, may terminate this Contract in its entirety or partially to the extent non-performance, without any further right or obligation on the part of the COMPANY, except for the payment of money then due. No notice shall be served by the COMPANY under the condition stated above.</p> | <p>CONTRACTOR fails to comply with the requisitions contained in the said written notice issued by the COMPANY. In the event CONTRACTOR rectifies its non-performance to the satisfaction of the COMPANY, the option of termination may not be exercised by the COMPANY. If however CONTRACTOR repeats non-performance subsequently, COMPANY shall exercise the option to terminate contract by giving 07 days notice. Termination shall be exercised only after reasonable cure period and after aggregate delay LD cap is reached, where applicable.</p> <p>We request the following addition:</p> <p>44.7 COMPANY shall provide written notice to the CONTRACTOR and a reasonable opportunity to rectify such non-performance prior to exercising its right of termination.</p> <p>44.8 Provided that COMPANY shall first issue a written notice specifying the default and allow a reasonable period for CONTRACTOR to remedy the delay prior to termination.</p> <p>44.9 "...and in the event of such termination the COMPANY shall not be liable to pay any cost or damage to the CONTRACTOR except for payment of services as per the Contract upto the date of termination the COMPANY shall pay the CONTRACTOR the value of the services and works performed up to the date of termination, the cost of work in progress (including profit), reasonable demobilization costs, amounts reasonably and unavoidably payable to subcontractors and suppliers as a direct result of such termination, and reasonable profits on the unperformed works."</p> |  |
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## **ANNEXURE-I**

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|     |                       | <p>44.8 Delay in Mobilization with reference to entire clause</p> <p>44.9 Termination for Convenience - with reference to entire clause</p> | <p>We request the waiver of clause no 44.10,</p> <p>In addition we propose:</p> <p>bidder may suspend performance of its obligations under the contract, if - (a) the customer is in delay with any payment or in providing any payment security required under this contract for more than 30 days; or (b) the customer fails to perform those of its obligations necessary for bidder to perform the works; or (c) the customer otherwise materially breaches the provisions of this contract.</p> <p>Notwithstanding any other rights it may have under this contract, bidder may terminate the contract if - (a) the customer comes under the direct or indirect control of any competitor of bidder; or (b) if the customer materially breached the contract and has not remedied the breach within a reasonable period after a notification by bidder; or (c) is in delay in making any payment or in providing any payment security required under this contract for more than 60 days; or (d) if the contract has been suspended for more than 60 days.</p> <p>In the event of termination, the customer shall, without prejudice to bidder's other remedies, pay bidder the value of the works performed up to termination, the cost of works in progress (including profit), reasonable demobilization costs, amounts reasonably and unavoidably payable to subcontractors and suppliers as a direct result of termination, and reasonable profits on the unperformed works.</p> |           |
| 7.0 | As per GCC clause no. | With reference to entire clause                                                                                                             | We request the below addition:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No Change |

## **ANNEXURE-I**

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|-----|----------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|     | Clause 45.0 - TO DETERMINE THE CONTRACT                              |                                 | Any recovery from the CONTRACTOR under this Clause shall be subject to the overall limitation of liability provided elsewhere in the Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 8.0 | As per GCC clause no. Clause 46.0 - WITHOUT DETERMINING THE CONTRACT | With reference to entire clause | we request the below addition:<br>Any recovery from the CONTRACTOR under this Clause shall be subject to the overall limitation of liability provided elsewhere in the Contract and shall exclude indirect, consequential and special damages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No Change |
| 9.0 | As per GCC clause no. 31.0 FORCE MAJEURE:                            | With reference to entire clause | In the event of either party being rendered unable by Force Majeure' to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure' will stand suspended as provided herein. The term force majeure as employed herein shall mean Acts of God such as earthquake, hurricane, typhoon, flood, volcanic activity etc.; war (declared /undeclared); riot, revolts, rebellion, terrorism, sabotage by persons other than the CONTRACTOR's Personnel; fires, explosions, ionising radiation or contamination by radio-activity or noxious gas, if not caused by CONTRACTOR's fault; declared epidemic or disaster; acts and regulations of respective Govt. of the two parties, namely the COMPANY and the CONTRACTOR and civil commotions, lockout not attributable to the CONTRACTOR or any event which is beyond the reasonable control of a party or its subcontractors, which could not have been prevented by good industry practice and which results in a party or its affiliates or any of its subcontractors or sub-suppliers being unable to perform or being delayed in performing in whole or in part its obligations under this Contract, including attacks on Contractor's IT systems (such as | No Change |

## **ANNEXURE-I**

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|  |  |  | <p>virus attacks, hacker attacks), non-issuance of licenses, permits, or approvals, embargos, trade sanctions, or any act or failure to act by any public authority affecting performance of the Contract.</p> <p>Upon occurrence of such cause, the party claiming that it has been rendered unable as aforesaid thereby, shall notify the other party in writing within 72 (Seventy Two) hours as soon as reasonably practicable of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of its claim.</p> <p>Should 'force majeure' condition as stated above occur and should the same be notified within 72 (Seventy Two) hours as soon as reasonably practicable after its occurrence, the 'force majeure' rate (if specified in the SCC of the Contract) shall apply for the first 15 (fifteen) days for each such occasion.</p> <p>Either party shall have the right to terminate the Contract if such 'force majeure' conditions continue beyond successive 60 (Sixty) days 90 (Ninety) days in aggregate [or exclusively mentioned in the SCC of the Contract] with prior written notice of 15 days, provided termination of the Contract does not result into safety hazard to the life and property on account of withdrawal of operations or the operation is at critical stage. COMPANY shall have the absolute right to decide whether any safety hazard exists or operation is at critical position and decision of the COMPANY shall binding upon the CONTRACTOR.</p> |  |
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## **ANNEXURE-I**

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|------|-------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|      |                                     |                                 | <p>Should either party decide not to terminate the Contract even under such condition, no payment would apply after expiry of fifteen (15) days force majeure period the Affected Party shall be deemed not to be in breach of its obligations under the Contract for so long as and to the extent necessary to overcome the effects of the Force Majeure Event.</p> <p>Time for performance of the relative obligation suspended by Force Majeure shall then stand extended by the period for which such cause lasts.</p> <p>If however, relative obligation of the party affected by such 'Force Majeure' is limited to part of the obligation(s), the contract shall not be terminated and the parties shall continue to perform their respective obligations, which are not affected by the 'force majeure' condition, provided the obligations affected by the 'force majeure' do not preclude the parties in performing the obligations not affected by such conditions.</p> <p>In the event one or more Force Majeure Events and their effect last for the above period and the Contract is terminated, Contractor shall be entitled to reimbursement from the COMPANY of its unavoidable costs related to such termination, including costs incurred for work performed, work in progress, committed materials, and unavoidable subcontractor and supplier commitments.</p> |           |
| 10.0 | As per GCC clause no. 32.0 SET-OFF: | With reference to entire clause | the said clause is not acceptable we request to delete the clause.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No Change |

## ANNEXURE-I

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|------|--------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11.0 | As per GCC clause no. 19.0 RISK PURCHASE:        | With reference to entire clause | We request the below addition:<br><br>Contractor's liability arising under this clause shall be governed by the applicable limitation of liability provisions of the Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No Change                                                                                                                                                   |
| 12.0 | As per GCC clause no. 20.0 INDEMNITY AGREEMENT:  | With reference to entire clause | We request the below addition:<br><br>The indemnity obligations under this Contract shall be subject to the limitation of liability provisions contained in Clause 16, except where such limitation is prohibited by applicable law.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No Change                                                                                                                                                   |
| 13.0 | As per GCC clause no. 18.0 CONSEQUENTIAL DAMAGE: | With reference to entire clause | We propose the below clause:<br><br>Except as otherwise expressly provided, neither party shall be liable to the other for special, indirect or consequential damages resulting from or arising out of the contract, including <del>but without limitation, to loss or profit or business interruptions</del> <b>loss of profit, loss of revenue, loss of production, interruption of operations, loss of use, cost of capital, loss of interest, loss of information and/or data, claims arising from contracts with third parties, loss of power, voltage irregularities, frequency fluctuations, cost of purchased or replacement power, business interruptions</b> , howsoever caused and regardless of whether such loss or damage was caused by the negligence (either sole or concurrent) of either party, its employees, agents or sub-CONTRACTORS. | No Change                                                                                                                                                   |
| 14.0 | Storage Cost                                     | Tender is silent                | If dispatch, delivery or Factory Acceptance Test (FAT) is delayed due to reasons attributable to <b>OIL</b> by more than one month after notice was provided by the Contractor for dispatch, delivery or FAT, <b>OIL</b> may be charged storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Intimation for FAT to be provided min 2 weeks prior from the schedule inspection date. If OIL not able to attend than same will be communicated by OIL. OIL |

## **ANNEXURE-I**

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|      |                                        |                  | costs thereafter at the rate of Rs. 15 per sq. ft. per day. If material is not picked up by <b>OIL</b> then thereafter, Contract shall be deemed to be terminated at the option of Contractor. Contractor shall be free to dispose of the supply and recover damages from Ambuja Cement.                                                                                                                                                                                                                                                                                                                                                                          | reserved the right to waiver of FAT in such situation.                                                                                                               |
| 15.0 | Extension of Time (Addition of clause) | Tender is silent | For any delays not attributable to bidder, contractor shall be entitled for time extension, Project Management Cost & Price Escalation, wherever necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Delay not attributable to bidder and same is mutually agreed between OIL and bidder, in such case only time extension of mutually agreed duration shall be provided. |
| 16.0 | Deemed Acceptance                      | Tender is silent | No consent or acceptance or issuance of any Certificates shall be unreasonably withheld by <b>OIL</b> for reasons not attributable to the Contractor. In a scenario where the consent/ acceptance/ approval/ issuance of any Certificate is not given within <b>90 days</b> from the date of our intimation of readiness and/ or if <b>OIL</b> takes the equipment/ work/ system into commercial use before issuing the Certificate, the same shall deemed to have been occurred, issued and accepted by <b>OIL</b> . Transfer of risk shall occur upon such acceptance and the guarantee shall start from the same date, payments shall be released immediately. | Deemed acceptance shall not apply. OIL will provide consent/ response related to execution of the contract which will be limited to the tender scope only.           |
| 17.0 | Change management                      | Tender is silent | Either party may at any time request in writing changes, modifications or additions to the scope of the works ('Variation' or 'Change'). Upon receipt of such Variation request, bidder shall provide the customer with a written quotation for the requested Variation, specifying the effects of the requested Variation on the contract, including any necessary adjustment of the contract price, time schedules and agreed dates, scope of the works and any other affected provisions of the                                                                                                                                                                | Not acceptable. However, if any change order is necessary, same shall be proceeded with mutual agreement of both the parties.                                        |

## **ANNEXURE-I**

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|------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |                                                                    |                                                                                                                                                                                                        | contract.<br><br>If the customer wishes to proceed with a requested Variation on the basis of a bidder' Variation quotation, the customer shall notify bidder thereof in writing within 14 days of receipt of such Variation quotation. bidder is not obliged to give effect to the Variation until it has been agreed in writing by the parties.                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |
| 18.0 | Delayed Payment<br>(Addition of clause)                            | Tender is silent                                                                                                                                                                                       | In the event Employer delays in making the entire payment of the [undisputed] invoiced amount, Employer shall pay interest on the delayed/ deficient payment at the rate of 13% (thirteen percent) commencing from the expiry of 15 (fifteen) days from the last date for making payment till actual payment thereof. For avoidance of doubt, it is clarified that in case the undisputed invoice is paid within the aforesaid period of 15 (fifteen) days, then no interest shall be payable by Employer. | Not acceptable. For undisputed invoices, Company will make the payment as per GCC clause No. 27.                                                                                                                                                                                         |
| 19.0 | BOCW Cess                                                          | Tender is silent                                                                                                                                                                                       | If BOCW is applicable for this project, then the same will be reimbursed at actuals to the Contractor. Hence, the same will be excluded from our prices. If the same is to be considered by us then kindly let us know whether it shall be applicable on the complete order value i.e. Supply+ETC+Civil OR only on Services i.e. ETC+Civil. Please confirm.                                                                                                                                                | Bidder shall comply with the Building and Other Construction Workers Welfare Cess Act, 1996 and other applicable statutory provisions. Applicable statutory liabilities/levies shall be dealt with as per the tender conditions; no separate exemption from the civil scope is provided. |
| 20.0 | 3.0 TECHNICAL EVALUATION CRITERIA:<br><br>3.1 EXPERIENCE CRITERIA: | 3.1.1 The Bidder must be the OEM (Original Equipment manufacturer) of both 33kV (or above) and 11kV (or above) voltage level of Air Insulated Switchgear/Gas Insulated Switchgear. In this regard, the | 3.1.1 The Bidder must be the OEM (Original Equipment manufacturer) of both 33kV (or above) and 11kV (or above) voltage level of Air Insulated Switchgear/Gas Insulated Switchgear. In this regard, the bidder must submit an OEM Declaration/Certificate on its letterhead, duly signed by an authorized                                                                                                                                                                                                   | The point will be reviewed internally and notified by corrigendum in case of any change.                                                                                                                                                                                                 |

## **ANNEXURE-I**

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|      |               | bidder must submit an OEM Declaration/Certificate on its letterhead, duly signed by an authorized signatory, confirming the same.                                                                                                                                                                                                                            | signatory, confirming the same. We understand AIS/GIS mean that the VCB, vacuum bottle and panel shall be from OEM / same make.                                                                                                                                                                                                                                                |                                                                                               |
| 21.0 | NIT OIL Moran | 3.1.3 The bidder shall submit Type Test Certificates issued by National Accreditation board for Testing and calibration Laboratories (NABL)/BIS/CPRI/ILAC accredited laboratories/STL members/central govt. approved laboratories or any other reputed national or international laboratories in the name of the Original Equipment Manufacturer (OEM) only. | Type Test shall be provided for individual equipment's and not complete EHouse since every EHouse is unique.                                                                                                                                                                                                                                                                   | Type test certificate of equipment as mentioned in the BEC/PQC has been asked to submit only. |
| 22.0 | NIT OIL Moran | 15.2 Bidders are required to have their following documents verified and certified by any one of the empanelled Independent Third-Party Inspection Agencies listed below:<br>(iv) Additional Documents: As per tender requirement.                                                                                                                           | Please clarify scope of Additional Documents                                                                                                                                                                                                                                                                                                                                   | As per tender (e.g. Type test certificate of power transformer)                               |
| 23.0 | NIT OIL Moran | Battery Limits                                                                                                                                                                                                                                                                                                                                               | We understand that the battery limit shall commence from the 33 kV poles to be installed by the Distribution Company. The bidder's scope of work shall begin from the jumpering of the 33 kV supply at the above mentioned poles. Termination of the incoming supply, including the provision of the isolator and surge arrestor, shall be entirely within the bidder's scope. | Agreed                                                                                        |
| 24.0 | NIT OIL Moran | 3. Synchronization facility shall be available between GEG & grid power at 11kV and flexibility to                                                                                                                                                                                                                                                           | We understand new Sync panel shall be considered as per SLD.                                                                                                                                                                                                                                                                                                                   | Agreed                                                                                        |

## **ANNEXURE-I**

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|      |               | switch power source as per operational requirement.                                                                                                                                                                  |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                    |
| 25.0 | NIT OIL Moran | 4. The 33/11 kV substation equipment shall be housed inside an E-house and shall be ready for direct installation at site i.e. Moran Power Station premises.                                                         | Since the EHouse size is big (more than transport dimension), it is recommended that equipments (wherever possible) to be dispatched to site and container shall be coupled at site due to transport limitations. Complete integration shall happen at site | Agreed                                                                                                                                                                                                                                             |
| 26.0 | NIT OIL Moran | Proposed layout diagram is attached as A21.1. This is for indication purpose only, bidder can change during detailed engineering.                                                                                    | Electrical rooms shall be as per OEM design. Balance spaces like Conference Room, Room-1, Room-2, Room-3, Room-4, New Control Room and passage space between rooms can be changed or shall be as per Proposed layout diagram A21.1                          | Agreed. However rooms shall be spacious.                                                                                                                                                                                                           |
| 27.0 | NIT OIL Moran | F. The Project shall also include rooftop solar panels to harness solar energy.                                                                                                                                      | Please specify total load requirement. Different bidders might have different designs and accordingly different sizes of solar panel.                                                                                                                       | Solar panel capacity will be as per the available space. Accordingly a minimum capacity of 30 kWp is to be considered for the rooftop solar plant subjected to structural stability, safety, operation feasibility and other technical feasibility |
| 28.0 | NIT OIL Moran | A tentative single line diagram of Moran Power Station after completion of the project is provided as Attachment no A0.1. This is for indication purpose only and bidder may change as per their design requirement. | We shall quote as per SLD only. Any change in requirement shall have price implications                                                                                                                                                                     | The diagram provides a tentative power flow diagram between new substation and existing electrical installations. Any components not shown in the diagram but critical for the completion of project shall be under the scope of bidder.           |

## **ANNEXURE-I**

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| 29.0 | NIT OIL Moran | 2) Existing High mast to light be dismantled if obstructing project site as per design & same to be installed in a new location for illumination of the project site.                                                                        | Please clarify scope. Does it depend on bidder or buyer to move the high mast. If it has to be moved, please clarify the location. Also, same HM shall be used for DSLP | In case of bidder finds that the existing high mast is required to be shifted as per the design requirement then bidder to shift the High mast and instal the same inside the premise of Moran power station .New location will be inside the premise of Moran Power station only and within 30 meters appx from current location. Use of High mast for DSLP as per standard and safety protocol acceptable. |
| 30.0 | NIT OIL Moran | 6.0 Statutory Requirements: All necessary approval from the statutory body will be under the scope of OIL. However, all necessary documents and information must be made available by the bidder/vendor in a timely manner.                  | We understand scope is limited to technical support for CEIG only. Any liasoning cost towards CEIG and any other approval shall not be in Bidders scope.                | Agreed.                                                                                                                                                                                                                                                                                                                                                                                                      |
| 31.0 | NIT OIL Moran | 8.0 Site Development/Area preparation: Project Site will be handed over to the bidder in a obstruction free condition. However, necessary further activities like leveling and earth filling as required shall be under the scope of bidder. | Clear land with obstruction free condition shall be provided. Any leveling and earth filling if required shall not be under the scope of bidder.                        | No deviation is accepted. Levelling and earth filling required to achieve the formation level as per approved design/layout shall be under bidder scope.                                                                                                                                                                                                                                                     |
| 32.0 | NIT OIL Moran | (v) Liaise and coordinate project activities with the operations of Moran Power Station to ensure safety and minimize power interruptions.                                                                                                   | We understand scope is limited to technical support for CEIG only. Any liasoning cost towards CEIG and any other approval shall not be in Bidders scope.                | It is clarified that the commencement of supply shall be obtained by OIL from CEA and successful bidder needs to provide support in technical documentation for the same.                                                                                                                                                                                                                                    |

## **ANNEXURE-I**

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| 33.0 | NIT OIL Moran | (xi) Shifting feeders from the existing 11 kV panels of GTG and GEG to the new 11 kV panels of the E-House.                                                                                                                                   | No physical movement considered, only cable connection between both 11kV switchboards considered.                                                                                                                                                                                                                                                                                                                                                     | All necessary jobs like cable laying, termination shall be under the scope of projects including shifting (connecting) of feeder from 11 kV GTG to 11 kV new HT panel and connecting the outgoing feeder cable with through joints. Details shall be made available in corrigendum issued against HT-Cable specification. |
| 34.0 | NIT OIL Moran | (xii) Cable laying and termination of 33 kV, 11 kV, and all control cables under the scope of this project                                                                                                                                    | Cabling shall be limited to below:<br>33kV cables: As per SLD and bidders scope.<br>11kV cables: As per SLD. No outgoing cables from 11kV panels considered. Cable considered between both 11kV switchboards.<br>415V: Interconnection cable between EHouse.<br>Sync panel connection (new & existing)<br>No other cables shall be in bidders scope                                                                                                   | a) Outgoing feeders to be shifted to new 11 kV panel using through joints & end termination kits as required, b) New interconnection cable (two nos.) to be connected between 11 kV GEG and new 11 kV panel, c) 415 V cable to be connected between new LT panel of E-house and GEG LT panel and GTG LT panel             |
| 35.0 | NIT OIL Moran | (xiv) Implementation of the new control scheme developed for synchronization of GEG and grid power. The modifications required to achieve synchronization shall be carried out by the contractor at site in consultation with the OEM of GEG. | We understand new Sync panel shall be considered as per SLD. No physical movement considered, only cable connection between both 11kV switchboards considered. Control cable & FO cable schedule shall be provided which shall be required for connection between both sync panels.<br>Also scheme testing shall not in bidders scope, bidder shall only do cable connection based on specification. Any activity from GEG vendor shall be OIL scope. | Design and execution of synchronisation scheme in consultation with GEG OEM, modification, cable laying, scheme testing, rectification shall be under the scope of bidder only. OIL will coordinate among GEG OEM and Bidder in case confusion/clarification.                                                             |
| 36.0 | NIT OIL Moran | It will be the responsibility of the bidder/vendor to carry out the route survey for successfully transporting the finished product from OEM's workshop to system                                                                             | Bidder shall be provided with clear approach road upto foundation at site.                                                                                                                                                                                                                                                                                                                                                                            | Transportation of the equipment from OEM's workshop to site i.e. Moran Power Station will be under the scope of bidder only as                                                                                                                                                                                            |

## **ANNEXURE-I**

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|      |               | Integrator's workshop and finally to the project site. Bidder has to arrange for necessary road transport permission from appropriate authority, if required.                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mentioned in the Tender. Inside the premise of Moran Power station, existing ring road is available which also connects the proposed project site. However construction access roads, if required by the vendor for execution of project activities shall have to arranged by bidder . |
| 37.0 | NIT OIL Moran | 26.0 SPARES: Supplied/OEM shall provide all necessary spares for commissioning of the 33 kV AIS panel at site.                                                                                                                                                                                                                                     | Commissioning spares shall be as per OEM standard beyond spares list and shall be on returnable basis                                                                                                                                                                                                                                                                                                                                                                                                               | Bidder shall have to provide the mandatory spares as applicable and hand over to OIL as mentioned in the tender in relevant annexure.                                                                                                                                                  |
| 38.0 | NIT OIL Moran | i) Bidder shall study the existing synchronization scheme operating in Moran Power Station between Gas Engine Generator and Gas Turbine Generator (GTG).                                                                                                                                                                                           | Since sync scheme is not in bidders scope, point not applicable. We understand new Sync panel shall be considered as per SLD. No physical movement considered, only cable connection between both 11kV switchboards considered. Control cable & FO cable schedule shall be provided which shall be required for connection between both sync panels. Also scheme testing shall not in bidders scope, bidder shall only do cable connection based on specification. Any activity from GEG vendor shall be OIL scope. | Design and execution of synchronisation scheme in consultation with GEG OEM, modification, cable laying, scheme testing, rectification shall be under the scope of bidder only. OIL will coordinate among GEG OEM and Bidder in case confusion/clarification.                          |
| 39.0 | NIT OIL Moran | ii) Bidder shall co-ordinate with OEM or authorized dealer of GEG to design, develop, modify and implement a new synchronization scheme between GEG and State Utility Grid. The synchronization will be carried out at 11 kV switchgear panel installed inside the E-house. Representatives from OIL will also extend necessary support during co- | Since sync scheme is not in bidders scope, point not applicable. We understand new Sync panel shall be considered as per SLD. No physical movement considered, only cable connection between both 11kV switchboards considered. Control cable & FO cable schedule shall be provided which shall be required for connection between both sync panels. Also scheme testing shall not in bidders scope, bidder shall only do cable connection based on                                                                 | Design and execution of synchronisation scheme in consultation with GEG OEM, modification, cable laying, scheme testing, rectification shall be under the scope of bidder only. OIL will coordinate among GEG OEM and Bidder in case confusion/clarification.                          |

## ANNEXURE-I

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|      |               | ordination with the OEM/Authorised dealer of GEG.                                                                                                                                                        | specification. Any activity from GEG vendor shall be OIL scope.                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 40.0 | NIT OIL Moran | APFC panel shall be installed inside E-House. Accordingly, Heat Generating components like Capacitor bank of the APFC shall be installed outside while control panels shall be installed inside E-house. | OIL to specify capacitor rating and necessary steps for APFC based on their system requirement                                                                                                                       | Bidder is provided with all necessary data in the tender to design, manufacture, supply and commission the APFC panel. In addition, system data of Moran power station for last two calender years will be shared via corrigendum for better understanding of the system.                                                                                                                                                                                                                                                                |
| 41.0 | NIT OIL Moran | Technical Specification no A13.1 - HT Cables                                                                                                                                                             | As per clause 3.0, both the 33kV and 11kV system neutrals are effectively earthed. However, as per page 361 of 511 - the 11kV side is NGR earthed. Hence, the 11kV cable needs to be Un-earthed system. Pls confirm. | Although 11 kV side NGR grounded, to maintain existing system uniformity, 11 kV cables with effectively earthed has been specified.                                                                                                                                                                                                                                                                                                                                                                                                      |
| 42.0 | NIT OIL Moran | Technical Specification - LT Power Cables                                                                                                                                                                | Request you to share the technical specifications of LT power cables.                                                                                                                                                | Specification has been mentioned in the <b>Annexure-A13.2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 43.0 | NIT OIL Moran | Technical Specification - NGR                                                                                                                                                                            | Request you to share the technical specifications of Neutral Grounding Resistor.                                                                                                                                     | NGR shall effectively restrict the fault current to 192 A at 11 KV in system voltage. Accordingly an NGR of 33 ohm is required to be installed. The specification of the NGR is as follows: a) Service: Outdoor, b) Rated Volatge: $11/\sqrt{3}$ kV, c) Rated current : 192.5 A for 10 sec, d) Rated Resistance: 33 ohm, e) Specific resistance of material: 73 micro ohm cm, Temp.co-efficinet of resistance: $0.00094/^{\circ}$ , f) Temperature rise over amb of $40^{\circ}$ C= $750^{\circ}$ C rise, g) NGR stnadard: IEEE STD. 32, |

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| 44.0 | NIT OIL Moran | Layout                  | Request you to share the purpose of Room- 1,2,3 & 4 as shown in the layout diagram (pg 365 of 511). Also pls share the requirements to be provided in these rooms                                                                     | As the operation of MPS runs 24X7, the existing manpower engaged in GTG operations will be shifted in these room to facilitate the operation of grid substation and GEG continuously by the same set of manpower.                                             |
| 45.0 | NIT OIL Moran | Ehouse- Conference Room | Pls share the requirements of the Conference room.                                                                                                                                                                                    | The conference room is required to conduct operational meeting, technical discussion, weekly safety meeting, official meetings and awareness event etc.                                                                                                       |
| 46.0 | NIT OIL Moran | Plot Layout             | Pls specify whether any fencing arrangement is required to be provided around the facilities as shown in the plot layout. If yes, pls indicate the same.                                                                              | a) Fencing arrangement to restrict the unauthorised entry to the outdoor equipment like Transformers shall be considered. B) Fencing arrangement underneath the E-house base restricting the unauthorised entry to the cable trench shall also be considered. |
| 47.0 | NIT OIL Moran | SLD                     | Kindly share Load details for all O/G feeders.                                                                                                                                                                                        | The cable size for each outgoing feeder will be notified vide corrigendum issue against the specification of HT-cables A13.1                                                                                                                                  |
| 48.0 | NIT OIL Moran | SLD                     | Kindly confirm whether the cables required from the new 11 kV panel to the existing panels (1R, 2R, 1L & 2L) are within Bidder's scope. Further, please confirm whether STF-1 and STF-2 are to be considered as future/spare feeders. | Yes. All 11 kV cables for outgoing feeders (1R, 2R, 1L & 2L) from the new 11 kV panel shall be considered. Feeder panel STF-1 and STF-2 will remain as spare and no load cable connection is envisaged under this tender.                                     |

## **ANNEXURE-I**

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| 49.0 | NIT OIL Moran                   | Scope of Work- Cl.3 : System Description PG No. 91/511                                                                                                                                                                                                              | Please confirm the feeders:( For Cables) GTG 11 kV Switch Board- 1R & 2R GEG 11 kV Switch Board - 1L & 2L                                                                                                                                                                                                                                                    | Agreed                                                                                                                                                                                                                                                        |
| 50.0 | NIT OIL Moran                   | SLD & Scope of Work                                                                                                                                                                                                                                                 | As per the SLD, two 5 MVA power transformers are included in the bidder's scope. However, as per the Scope of Work, the quantity specified for the same is one. Kindly clarify this discrepancy.                                                                                                                                                             | Requirement of 5 MVA transformer is 2 (Two) nos. Necessary correction will be shared via corrigendum                                                                                                                                                          |
| 51.0 | NIT OIL Moran                   | Scope of Work                                                                                                                                                                                                                                                       | Kindly confirm that the quantities of End Termination Kits and Straight Through Joint Kits shall be considered as per the details provided in Clause 4.2 of the Scope of Work (Page 223 of 511).                                                                                                                                                             | Corrigendum to be issued against Specification of HT-cables A13.1. Any kit required to complete the project shall be provided by the bidder and cost will part of LSTK rate.                                                                                  |
| 52.0 | NIT OIL Moran                   | Make List                                                                                                                                                                                                                                                           | Please provide make list                                                                                                                                                                                                                                                                                                                                     | Equipment / system shall be as per specification. Preferred list for oil type transformer Schneider, Raychem, VoltAmp, Bharat Bijulee, CG, Cahors , RTS etc.                                                                                                  |
| 53.0 | NIT OIL Moran                   | Order of precedence                                                                                                                                                                                                                                                 | Please confirm the Order of Precedence applicable for this tender documents.                                                                                                                                                                                                                                                                                 | For technical documents GTPs, approved drawings & documents will be considered as the first precedence of order during execution.                                                                                                                             |
| 54.0 | NIT OIL Moran                   | Future Existing for AIS panels                                                                                                                                                                                                                                      | Is there any space provision required for future expansion of switchgear ?                                                                                                                                                                                                                                                                                   | Yes. Provision for future extension of AIS switchgear panels with one(01) nos of cubicles shall be considered for both 33 kV and 11 kV panels                                                                                                                 |
| 55.0 | Specification No-A01(33 kV AIS) | 20.0 CONDITION MONITORING / ASSET MONITORING: The 33 kV switchgear shall be fully compatible with Condition Monitoring / Asset Monitoring. The scope under this tender is Condition Monitoring / Asset Monitoring ready switchgear. Following parameters need to be | 1. Please confirm our understanding that bidder to offer the Local Condition based Temperature and Partial discharge monitoring system for 33kV AIS switchboard with interactive local multitouchscreen HMI (which will be placed on the LV compartment front facia of one of the panel in 33kV switchboard) for local temperature monitoring at switchboard | Condition monitoring/asset monitoring is required for critical electrical equipment installed in the substation. This includes 33 kV AIS, 11kv AIS, power transformer, station transformer etc. This system shall be integrated and available to monitor from |

## **ANNEXURE-I**

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|      |                                       | <p>monitored:</p> <p>a) Busbar temperature monitoring</p> <p>b) Online partial discharge monitoring</p> <p>c) Trip coil healthy supervision</p> <p>d) Close coil healthy supervision</p> <p>e) Any other parameters</p> | <p>2. For Point a), we understand that the each Incomer and outgoing feeder vertical, 3 no of wireless temperature sensors installed at busbar compartment and 3 no of wireless temperature sensor installed at cable compartment ( typical excluding Bus PT, Line PT Bus riser panel etc.). Please confirm</p> <p>3. for Point b), we understand that the 3 no of wireless temperature sensor installed at cable compartment of panel ( typical excluding Bus coupler, Bus PT, Line PT Bus riser panel etc.). Please confirm</p> <p>4. Please correct our understanding that the proposed condition monitoring system should have provision to monitor the status of Point c) and Point d) from Protection relays compliant IEC61850 (assuming all signals wired to Protection relay). Or can bidder monitor these parameters in SAS/SCADA system. Please confirm</p> <p>5. For Point e) referred to monitoring of measurements ( V, I, Power) and Operation status (VCB On/Off) from Protection relays compliant IEC61850</p> | Control room in the E-house. Integrated or stand alone solutions are acceptable to OIL.                                                                  |
| 56.0 | Specification No-A01(33 kV AIS)-GTP-1 | 49 Condition Monitoring: Bus temp, PD, coil health                                                                                                                                                                      | Please confirm our understanding that coil health is referred as Trip coil and close coil status monitoring via protection relay compliant IEC61850 and bidder can monitor these parameters in SAS/SCADA system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Agreed. Coil health can be displayed in SAS system as well                                                                                               |
| 57.0 | Specification No-A01(33 kV AIS)       | 20.0 Condition Monitoring / Asset Monitoring: The 33 kV switchgear shall be fully compatible with Condition Monitoring / Asset Monitoring. The scope under this tender is Condition Monitoring /                        | 1. Please confirm our understanding that bidder to offer the Local Condition based Temperature and Partial discharge monitoring system for 11kV AIS switchboard with interactive local multitouchscreen HMI (which will be placed on the LV compartment front facia of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition monitoring/asset monitoring is required for critical electrical equipment installed in the substation.This includes 33 kV AIS, 11kv AIS, power |

## **ANNEXURE-I**

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|      |                                      | <p>Asset Monitoring ready switchgear. Following parameters need to be monitored:</p> <ul style="list-style-type: none"> <li>a. Busbar temperature monitoring</li> <li>b. Online partial discharge monitoring</li> <li>c. Trip coil healthy supervision</li> <li>d. Close coil healthy supervision</li> <li>e. Any other parameters</li> </ul> | <p>one of the panel in 11kV switchboard) for local temperature monitoring at switchboard</p> <p>2. For Point a), we understand that the each Incomer and outgoing feeder vertical, 3 no of wireless temperature sensors installed at busbar compartment and 3 no of wireless temperature sensor installed at cable compartment ( typical excluding Bus PT, Line PT Bus riser panel etc.). Please confirm</p> <p>3. for Point b), we understand that the 3 no of wireless temperature sensor installed at cable compartment of panel ( typical excluding Bus coupler, Bus PT, Line PT Bus riser panel etc.). Please confirm</p> <p>4. Please confirm our understanding that the proposed condition monitoring system should have provision to monitor the status of Point c) and Point d) from Protection relays compliant IEC61850 (assuming all signals wired to Protection relay). Or can bidder monitor these parameters in SAS/SCADA system. Please confirm</p> <p>5. For Point e) referred to monitoring of measurements ( V, I, Power) and Operation status (VCB On/Off) from Protection relays compliant IEC61850</p> | <p>transformer , station transformer etc. This system shall be integrated and available to monitor from Control room in the E-house. Integrated or stand alone solutions are acceptable to OIL.</p> |
| 58.0 | Technical Specification No-A03(Cl.1) | <p>1.0 SCOPE:</p> <p>The scope of this tender includes the design, manufacture, supply, erection, testing and commissioning by supplier/bidder at site. i.e. Moran Power Station for the purpose of grid connectivity at 33 KV of two (02) nos. of 5 MVA, 33/11 kV, Oil</p>                                                                   | <p>We request customer to consider excluding the condition monitoring scope for Power transformers.</p> <p>As an alternate, we propose the monitoring of the power transformer related data through proposed SAS/SCADA system. Please confirm our understanding</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>No deviation accepted. Condition monitoring of power transformer will be required. However, the solution can be either integrated or stand alone.</p>                                            |

## **ANNEXURE-I**

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|      |                                       | type, Outdoor transformer having facility for Nitrogen Injected Fire Protection System, SAS connectivity and Condition Monitoring for parallel operation along with supply of spares.                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                   |
| 59.0 | Technical Specification No-A03(Cl.5)  | 5.0 TANK:<br>(j) The power transformer shall be designed in a way for seamless integration of “Condition Monitoring/Asset Monitoring” at site. It shall be the responsibility of system integration (Bidder/Supplier) to ensure seamless integration of the both.                                                                                                                                                                                                                             | We request customer to consider excluding the condition monitoring scope for Power transformers.<br>As an alternate, we propose the monitoring of the power transformer related data through proposed SAS/SCADA system. Please confirm our understanding                                                                                                                                                                                                                                                                                                                                     | No deviation accepted. Condition monitoring of power transformer will be required. However, the solution can be either integrated or stand alone. |
| 60.0 | Technical Specification No-A03(GTP-3) | GTP-3: 2 X 5 MVA Transformer, 33/11 kV<br>11 Condition Monitoring — Yes                                                                                                                                                                                                                                                                                                                                                                                                                       | We request customer to consider excluding the condition monitoring scope for Power transformers.<br>As an alternate, we propose the monitoring of the power transformer related data through proposed SAS/SCADA system. Please confirm our understanding                                                                                                                                                                                                                                                                                                                                     | No deviation accepted. Condition monitoring of power transformer will be required. However, the solution can be either integrated or stand alone. |
| 61.0 | Technical Specification No-A09(Cl.1)  | 1.0 The contractor shall design, supply, install, test, and commission a comprehensive Asset Monitoring System (AMS) for continuous condition monitoring and health assessment of critical electrical equipment installed within the E-House substation. The system shall be capable of monitoring the operational condition and performance of key assets including power transformers, 33 kV and 11 kV switchgear panels. The AMS shall acquire real-time operational data from intelligent | 1. We request customer to consider excluding the condition monitoring scope for Power transformers.<br>As an alternate, we propose the monitoring of the power transformer related data through proposed SAS/SCADA system. Please confirm our understanding.<br><br>2. For 33kV and 11kV AIS switchboard, whether bidder to provide condition based temperature monitoring only or Temperature, humidity as well as PD monitoring for 33kv and 11kV switchboards within EHouse. Please confirm.<br><br>3. We understand that the each Incomer and outgoing feeder vertical, 3 no of wireless | No deviation accepted. Condition monitoring of power transformer will be required. However, the solution can be either integrated or stand alone. |

## **ANNEXURE-I**

|      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                    |
|------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|      |                                      | <p>electronic devices (IEDs), protection relays, and dedicated sensors installed on equipment. Typical parameters to be monitored shall include transformer winding and oil temperature, transformer loading, insulation condition indicators, busbar temperature, cable termination temperature, humidity within the E-House, and other relevant environmental conditions. The system shall provide continuous monitoring to detect abnormal operating conditions at an early stage and enable predictive and condition-based maintenance of electrical assets.</p>                          | <p>temperature sensors installed at busbar compartment and 3 no of wireless temperature sensor installed at cable compartment ( typical excluding Bus PT, Line PT Bus riser panel etc.). Please confirm</p> <p>4. We understand that the 3 no of wireless temperature sensor installed at cable compartment of panel ( typical excluding Bus coupler, Bus PT, Line PT Bus riser panel etc.). Please confirm</p> <p>5. Please confirm our understanding that 1 no. of humidity sensor at cable compartment of any one of the panel of 33kV and 11kV switchboard ( total: 1 no. humidity sensor per switchboard) to be provided for ambient temperature, relative humidity monitoring.</p>                                                                                                    |                                                                                                                                    |
| 62.0 | Technical Specification No-A09(Cl.2) | <p>2.0 The Asset Monitoring System shall be microprocessor-based and modular in design, allowing integration with the substation automation system. Communication between sensors, IEDs, relays and the AMS platform shall be through open and widely accepted industrial communication protocols such as IEC 61850, Modbus TCP/IP or equivalent, ensuring seamless interoperability with protection relays and control systems. The AMS shall provide real-time status monitoring, alarm and event generation, historical data logging, trending of asset parameters, asset health index</p> | <p>1. We propose common Industrial grade PC (IPC), installed within the LV compartment of any one of the panel of either 33kv or 11kV for condition based monitoring of temperature, humidity and Partial discharge of 33kV and 11kV Switchboard. further we propose that the visualization and local monitoring of temperature, humidity, partial discharge shall be through common local interactive touchscreen HMI connected with IPC, installed within the Low voltage (LV) compartment of any one of switchgear panel in the 33kV or 11kV switchboard. Please confirm our understanding of common IPC and a local touchscreen HMI are acceptable for monitoring and visualization of temperature, humidity, and partial discharge data for both the 33 kV and 11 kV switchboards.</p> | <p>A separate HMI shall be installed in the control room for monitoring &amp; analysis of data continuously by shift operators</p> |

## **ANNEXURE-I**

|      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         |
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|      |                                      | calculation, and diagnostic tools for maintenance planning.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         |
| 63.0 | Technical Specification No-A09(Cl.3) | <p>3.0 The AMS HMI and software shall provide centralized visualization, monitoring, and analysis of all connected substation assets through an industrial-grade workstation located in the E-House control room. The HMI shall display the substation single-line diagram with real-time status, measurements, and alarm indications for monitored equipment including transformers, switchgear at 11 KV and 33 KV. The software shall support real-time data acquisition, alarm and event management, historical data logging, and parameter trending for key operational parameters such as temperature, loading, humidity, and equipment status. The system shall allow configurable alarm thresholds, event recording with time stamping, and generation of basic operational and maintenance reports. The HMI software shall support multi-user access with role-based permissions and provide secure remote monitoring capability. The system shall be supplied as part of an integrated solution from reputed manufacturers</p> | <p>1. We propose common Industrial grade PC (IPC), installed within the LV compartment of any one of the panel of either 33kv or 11kV for condition based monitoring of temperature, humidity and Partial discharge of 33kV and 11kV Switchboard. further we propose that the visualization and local monitoring of temperature, humidity, partial discharge shall be through common local interactive touchscreen HMI connected with IPC, installed within the Low voltage (LV) compartment of any one of switchgear panel in the 33kV or 11kV switchboard. Please confirm our understanding of common IPC and a local touchscreen HMI are acceptable for monitoring and visualization of temperature, humidity, and partial discharge data for both the 33 kV and 11 kV switchboards.</p> <p>2. We request customer to consider excluding the condition monitoring scope for Power transformers. As an alternate, we propose the monitoring of the power transformer related data through proposed SAS/SCADA system. Please confirm our understanding</p> <p>3. For single line diagram, we proposed an alternative that the proposed SAS HMI shall display the substation single line diagram with real time status, alarm and measurements of power transformers, 11kV and 33kv switchgears. Please confirm</p> | A separate HMI shall be installed in the control room for monitoring & analysis of data continuously by shift operators |

## **ANNEXURE-I**

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| 64.0 | Technical Specification No.407 Substation Automation System Standard & Compliance | Remote communication shall comply with IEC 104                                                                                  | We have proposed RTU based Data concentrator which act as Gateway. Please clarify that proposed RTU will communicate with how many remote stations | OT integration with remote command center to be carried out by OIL separately. However, the server of current project shall be OPC UA compliant. |
| 65.0 | Technical Specification No.407 Substation Automation System Station Level System  | IEDs shall support IEC 61850 MMS & GOOSE communication without protocol converter                                               | Proposed numerical relays are supporting IEC61850 protocol for SAS communication & having RJ45 port.                                               | Noted. Relay should support MMS & GOOSE communication. without protocol converter                                                                |
| 66.0 | Technical Specification No.407 Substation Automation System Station Level System  | Status (ON/OFF) of all 33KV/11KV breakers shall be monitored & displayed continuously by SAS                                    | We understand that 33KV/11KV breakers status (ON/OFF) is coming in SAS via relays. Please confirm.                                                 | Agreed                                                                                                                                           |
| 67.0 | Technical Specification No.407 Substation Automation System Communication Network | Network shall be designed with redundancy using PRP or HSR or equivalent redundancy protocols to avoid single points of failure | We understand that RSTP network topology shall be acceptable. Please confirm                                                                       | RSTP is acceptable in Ring topology                                                                                                              |
| 68.0 | Technical Specification No.407 Substation Automation                              | All SAS equipment shall be powered from substation UPS/DC System                                                                | Separate UPS shall not be provided for UPS. It shall be part of common EHouse UPS                                                                  | Agreed                                                                                                                                           |

## **ANNEXURE-I**

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|      | System Power Supply                                                      |                                                                                                                                                                   |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                |
| 69.0 | Technical Specification No.407 Substation Automation System              | Training                                                                                                                                                          | Please clarify the training required at site or vendor premises                                                                                                                                                                             | Training shall be imparted at site                                                                                                                                                                                             |
| 70.0 | Technical Specification No.407 Substation Automation System Architecture | Firewall is shown in System Architecture                                                                                                                          | We have proposed Layer -3 firewall. Please share the specification of firewall                                                                                                                                                              | OT integration with remote command center to be carried out by OIL separately which will include cyber security aspects and not in the scope of this tender. However, the server of current project shall be OPC UA compliant. |
| 71.0 | Technical Specification No.407 Substation Automation System Architecture | Local HMI, EMS Server                                                                                                                                             | We understand that local SAS will transfer the data to EMS on IEC - 104 Protocol                                                                                                                                                            | Station level SAS is under the scope of the bidder.                                                                                                                                                                            |
| 72.0 | Technical Specification No.407 Substation Automation System Architecture | Local HMI                                                                                                                                                         | Please clarify the requirement of HMI (Redundant or non redundant)                                                                                                                                                                          | AMS data to be displayed in control room inside E-House.                                                                                                                                                                       |
| 73.0 | Technical Specification No.408 Energy Management System                  | The EMS shall acquire real time & historical data from power quality analyzer, Trivector (ABT) energy meter, Multifunction meter, & relevant data points from SAS | We have proposed the SAS system which will collect the data<br>1) from IEDs on IEC 61850 protocol<br>2) From power quality analyzer, Trivector (ABT) energy meter data on MODBUS protocol<br>3) transfer the data to remote location on IEC | Agreed.                                                                                                                                                                                                                        |

## **ANNEXURE-I**

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|      | Scope of Energy Management System                                                               |                                                                                                                                                                                                                                         | 104<br>Please confirm that this solution shall acceptable                                                                                                                                                                                                                                                       |                                                                                                                         |
| 74.0 | Technical Specification No.408<br>Energy Management System<br>Scope of Energy Management System | EMS hardware, software & communication interface shall comply latest applicable standards including IEC 61850 for integration with SAS                                                                                                  | We have proposed the SAS system which will collect the data<br>1) from IEDs on IEC 61850 protocol<br>2) From power quality analyzer, Trivector (ABT) energy meter data on MODBUS protocol<br>3) transfer the data to remote location on IEC 104 protocol.<br>Please confirm that this solution shall acceptable | Agree                                                                                                                   |
| 75.0 | Technical Specification No.408<br>Energy Management System<br>Scope of Energy Management System | EMS hardware, software & communication interface shall comply latest applicable standards including IEC61557 for energy & power quality measurement, IEC 61000-4-30 class A for power quality analysis, IEEE 1459 for power definitions | We undersand that IEC 62053, IEC 61557, IEC 61000-4-30 Class A and IEEE 1459 is applicable to the respective energy/power-quality measurement devices (MFM/PQ meters) however proposed SAS will acquire, process and display the corresponding measurement data.                                                | SAS (relay) and EMS (multifunction meter) can be either an integrated solution or a standalone system.                  |
| 76.0 | Technical Specification No.408<br>Energy Management System<br>Scope of Energy Management System | Local EMS HMI shall be provided in the substation for operators & engineers                                                                                                                                                             | We have proposed 1 no Engineering cum operator workstation & 1 no Operator workstation which will display data of IEDs on IEC 61850 protocol, power quality analyzer, Trivector (ABT) energy meter data on MODBUS protocol & shall display trends, alarms, report having roll based access control              | Agreed                                                                                                                  |
| 77.0 | Technical Specification No.408<br>Energy Management System<br>Scope of Energy                   | Provision shall be made for secure transmission of selected EMS data to a cloud or centralised enterprise platform                                                                                                                      | We understand that proposed SAS/EMS will transfer the selected data to cloud on MQTT protocol. Please confirm.<br><br>Also confirm for below points :<br>1) Total no of signals to be pushed in to cloud from local station.<br>2) 3rd Party cloud details (Make, Host etc.)                                    | Provision means the server to be OPC UA compliant. Integration with enterprise platform not in the scope of the tender. |

## **ANNEXURE-I**

|      |                   |                                                          |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                        |
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|      | Management System |                                                          | 3) Internet connectivity, router & associated devices/Software for secure connection rules (as per customer Policy) from bidders device to cloud shall be in scope of Customer                                                                                                                                                    |                                                                                                                                                                                        |
| 78.0 | Cybersecurity     | Compliance to CEA Cybersecurity regulations              | Please share the CEA Cybersecurity regulations                                                                                                                                                                                                                                                                                    | Integration with enterprise OT platform not in the scope of the tender. Station level Security protocol as per CEA to be ensured by bidder.                                            |
| 79.0 | General           | Remote HMI                                               | Remote HMI is not required thus not considered                                                                                                                                                                                                                                                                                    | All required HMI will be inside the E-house or control rooms only                                                                                                                      |
| 80.0 | General           | Hardwired digital inputs, Analog Inputs, Digital outputs | We have considered below mentioned Hardwired signals which will communicate with proposed SAS system and accordingly Peripheral cards considered in RTU. Please confirm.<br>1. Binary Input - 32 nos. ( including 20% spare)<br>2. Analog Input- 8 nos.( including 20% spare)<br>2. Binary Output- 16 nos. ( including 20% spare) | Design is under bidder's scope. Design should consideration of 20% spare .                                                                                                             |
| 81.0 | Civil scope       | Civil scope                                              | Arch plan section of GEG building. Currently E house 2 is considered at 1.2 above FGl.                                                                                                                                                                                                                                            | Height shall be as per tender specification                                                                                                                                            |
| 82.0 | Civil scope       | Civil scope                                              | Existing Road to be extended around E House ( 4 m width) currently considered                                                                                                                                                                                                                                                     | Ring road not under the scope of Bidder.                                                                                                                                               |
| 83.0 | Civil scope       | Civil scope                                              | Details of 2 pole / 4 pole structure awaited with locations. NOT considered civil scope.                                                                                                                                                                                                                                          | The 2 pole or 4 pole structure will be selected by the bidder as per tender requirement.The placement will be inside the premise of Moran Power Station. This is under bidder's scope. |
| 84.0 | Civil scope       | Civil scope                                              | Demolition of any existing structures foundation / rerouting of utilities in the proposed E house are will not be in bidders scope.                                                                                                                                                                                               | Provision of interconnection between the new control room with the existing GEG control room of GEG will be under the scope of bidder.Necessary civil                                  |

## **ANNEXURE-I**

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|      |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                | jobs will be under the scope of bidder only.                                                    |
| 85.0 | Civil scope                | Civil scope                                                                                                                                                                                                                                                                                                                                                                                                                           | Existing cable trench will be used wherever possible. Existing trench layout details with dimensions required. | Agreed. Bidders is requested to kindly visit and check the dimension to assess the feasibility. |
| 86.0 | 2.0 (Viii )Site Conditions | Please specify Seismic acceleration.                                                                                                                                                                                                                                                                                                                                                                                                  | Panels are not tested for seismic VI confirmation.                                                             | Bidder to consider in design for the applicable seismic zone.                                   |
| 87.0 | 1.0 Scope of work          | 1.0 Scope of work                                                                                                                                                                                                                                                                                                                                                                                                                     | VCB should be floor rolling                                                                                    | Agreed                                                                                          |
| 88.0 | AIS Panels                 | 3.0 Sys parameter<br>Busbar Material: Coper<br>(rectangular Shape)                                                                                                                                                                                                                                                                                                                                                                    | Bus bar design will be as per type tested design. We will provide semi triangular busbar design.               | Agreed with deviation                                                                           |
| 89.0 | AIS Panels                 | (b) Metals: Iron and Steel are generally to be painted or galvanized as appropriate.                                                                                                                                                                                                                                                                                                                                                  | Please note, all steel works should be painted irrespective of type of coating.                                | Agreed                                                                                          |
| 90.0 | AIS Panels                 | sheet not less than 3 mm thickness for load bearing section                                                                                                                                                                                                                                                                                                                                                                           | Sheet steel thickness will be as per type test design panel Max. steel thickness can be 2.5 mm.                | Agreed. Type test certificate shall be submitted                                                |
| 91.0 | AIS Panels                 | (p)The relay compartments shall have degree of protection not less than IP:52 in accordance with IS:2147. All louvers if provided shall have very fine brass or GI mesh screen, IPH-2 degree of protection as per IS: 3427 to all live parts shall (whether isolated or removed from panel) even when the breaker compartment door is open. Tight fitting garments / gaskets are to be provided at all openings in relay compartment. | Relay compartment will have IP4X IP                                                                            | Agreed.                                                                                         |
| 92.0 | AIS Panels                 | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                       | Manual spring charging of circuit breaker should possible with close door.                                     | Agreed                                                                                          |

## **ANNEXURE-I**

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| 93.0  | AIS Panels     |                                                 | VCB, Vacuum bottle should be of same make. Otherwise manufacture authorisation should be presentation. This will ensure ease of maintenance for whole service life of VCB.                                                         | Will be reviewd internally & corrigendum will be issued if any change.                                                                                                                         |
| 94.0  | AIS Panels     | Cable termination height                        | Cable termination height should 650-700 mm                                                                                                                                                                                         | Acceptable.                                                                                                                                                                                    |
| 95.0  | AIS Panels     | Potential transformer                           | Please let us know in case bus potential transformer is required or not. If required, there will be separate vertical for the same. Line PT will be fixed type at back of the panel. Please confirm.                               | Bus PT will be required in 11 kV AIS for synchronisation purpose. Line PTs shall have the provision of withdrawal to isolate.                                                                  |
| 96.0  | AIS Panels     | Numerical relay<br>87T, 87B                     | Since transformer is less than equal to 5 MVA, there is no mandatory transformer differential protection required. Pls confirm. 87B will be high impedance & this protection will be covered in same NR in Incomers.               | Differential Protection for both the power transformer shall be considered                                                                                                                     |
| 97.0  | AIS Panels     | Tariff meter with MRI & DLMS protocol           | Tariff meter will not have MRI facility & DLMS protocol                                                                                                                                                                            | Agreed.                                                                                                                                                                                        |
| 98.0  | AIS Panels     | Condition monitoring                            | 1. Cable termination temp monitoring to be included.<br>2. Partial discharge monitoring should also be in cable chamber<br>3. Trip/close coil healthy supervision will be done though TCS relay, not in Asset monitoring solution. | Agreed                                                                                                                                                                                         |
| 99.0  | AIS Panels     | Painting method                                 | Since, installation location having very high humidity content, it should be more stringent like C5 medium.                                                                                                                        | Will be reviewd internally & corrigendum will be issued if any change.                                                                                                                         |
| 100.0 | AIS Panels     | GTP1<br>30. PT type                             | Incomer PT should be fixed type or separate panel for Line PT required.                                                                                                                                                            | PTs shall have the provision to isolate/withdraw                                                                                                                                               |
| 101.0 | AIS Panels     | GTP1<br>31,32,33: Numerical relay<br>protection | 87B will be in buscoupler for both bussections. Incomer will not have 87B protection. 87T protection in outgoing feeders may not be required since transformer rating is within 5 MVA                                              | a) Bus bar differential protection for 11 kV AIS panel is required as per tender specification, b) Differential protection for 5 MVA transformer to be considered as per tender specification. |
| 102.0 | 11KV AIS panel | Horizontal draw out VCB                         | VCB should be having floor rolling, horizontal isolation & horizontal draw out facility.                                                                                                                                           | Agreed.                                                                                                                                                                                        |

## **ANNEXURE-I**

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| 103.0                             | 11KV AIS panel | 110V DC power                                               | We understood suitable battery & battery charger system should be installed inside E house for DC supply                                                 | Agreed                                                                                                                                                                                                                                                                                                                                                 |
| 104.0                             | 11KV AIS panel | sheet not less than 3 mm thickness for load bearing section | Sheet steel thickness will be as per type test design panel<br>Max. steel thickness can be 2.5 mm.                                                       | Agreed. Type test certificate shall be submitted as mentioned in the tender                                                                                                                                                                                                                                                                            |
| 105.0                             | 11KV AIS panel | Internal arc evacuation                                     | Due to E house design, internal arc gases should be evacuated out of E houses for both 33KV & 11KV AIS panel                                             | Agreed                                                                                                                                                                                                                                                                                                                                                 |
| 106.0                             | 11KV AIS panel | IP rating of 11KV AIS panel                                 | 11KV AIS panel will have IP4X protection from outside                                                                                                    | Agreed                                                                                                                                                                                                                                                                                                                                                 |
| 107.0                             | 11KV AIS panel | Cable termination height                                    | Cable termination height should be within 500-600mm for 11KV AIS panel                                                                                   | Agreed. Type test certificate shall be submitted                                                                                                                                                                                                                                                                                                       |
| 108.0                             | 11KV AIS panel | Spring charging in closed door condition                    | VCB spring charging should be with close door condition possible.                                                                                        | Agreed                                                                                                                                                                                                                                                                                                                                                 |
| 109.0                             | 11KV AIS panel | Line PT & Bus PT installation                               | Line PT will be within breaker trolley and separate trolley for Bus PT. One separate BusPT panel will be provided.                                       | Agreed. One (01) bus PT for each section is required                                                                                                                                                                                                                                                                                                   |
| 110.0                             | 11KV AIS panel | Protection                                                  | 87T protection will be in 33KV. 87B will be high impedance Bus bar differential 01 no for each bus section.                                              | Agreed                                                                                                                                                                                                                                                                                                                                                 |
| 111.0                             | 11KV AIS panel | tri vector meter                                            | 11KV AIS panel will not have Tri vector meter, it will have multi function meter since incomers are not grid connected.                                  | Agreed.                                                                                                                                                                                                                                                                                                                                                |
| Specification No- A02 (11 kV AIS) |                |                                                             |                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                        |
| 112.0                             | 4(a)           | e) Interconnector: Two (02) nos.                            | Please confirm the exact requirement. We have considered 1 no buscoupler along with bus Riser. Also please confirm whether Bus PT panel required or not. | Interconnector (Two Nos) is required to connect the new E-house 11 kV switchgear panel and GEG 11 kV Switchgear panel. The synchronisation between the grid and GEG will take place in the new 11 kV switchgear panel. Accordingly the bidder is requested to design the panel. Bus PT will be required for both the bus section of 11 KV switchboard. |

## **ANNEXURE-I**

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| 113.0 | 8(b) | b) Metals: Iron and Steel are generally to be painted or galvanized as appropriate. Indoor parts may alternatively have chromium or copper-nickel plates or other approved protective finish. Small iron and steel parts (other than rustless steel) of all instruments and electrical equipment, the cores of electromagnets and the metal parts of relays and mechanisms shall be treated in an appropriate manner to prevent rusting.                                                         | Painting: We have offered panels made up of special material called "Alu Zinc". Alu Zinc is light in weight, has more strength, and extremely corrosion resistant compared to normal CRCA sheets and this does not require any surface treatment like powder coating. Panels shall be made up of Alu Zinc material except front doors & end covers which shall be painted sheet steel. We shall provide powder coated paint only for front doors and end covers, which shall be made of CRCA sheet. However, painting procedure and thickness shall be as per our standard procedure C3 paint procedure is shared. | Acceptable.                                                       |
| 114.0 | 8(d) | d) Rubbers: Neoprene and similar synthetic compounds, not subject to deterioration due to the climatic conditions, shall be used for gaskets, sealing rings, diaphragms, etc.                                                                                                                                                                                                                                                                                                                    | Gaskets shall be of EPDM material which is superior to Neoprene. In addition, they both offer good resistance to weathering and abrasion. However, EPDM is superior to neoprene in UV and Ozone resistance and may be more favorable when heat resistance is a factor. EPDM seals also provide better flexibility at low temperatures compared to neoprene.                                                                                                                                                                                                                                                        | Acceptable.                                                       |
| 115.0 | 8(e) | e) The switchgear shall be of CRCA steel / corrosion proof aluminium-zinc construction with sheet not less than 3 mm thickness for load bearing section and not less than 2mm thickness for non-load bearing and shall totally dust and vermin proof. However, if vendor has standardized the thickness of enclosure other than above mentioned and it meets the performance requirements and the design has been established through type test, the same shall be accepted. The panels shall be | Sheet Steel material - Offered Panels are made of Aluzinc material, which is corrosion proof. The sheet steel is coated with unique silvery spangle composed of Al (55%) Zinc (43%) and silicon (1.6%) for perfect harmony with steel. Aluzinc sheet thickness shall be 2.0 mm. However front doors and end covers are made of CRCA sheet thickness 2 mm with special reinforcement. The design has been type tested for full short circuit rating for internal arc resistance.                                                                                                                                    | Accepted. However Type test to be provided for the offered model. |

## ANNEXURE-I

|       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |                                                                                                                                                                 |
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|       |      | rigid without using any external bracings. The switchboard panels should comply with relevant IS / IEC and revision thereof and shall be designed for easy operation maintenance and further extension.                                                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                                 |
| 116.0 | 8(j) | j) The breakers should be able to be drawn out in horizontal position at ground level [with vertical/ horizontal isolation].                                                                                                                                                                                                                                                                                                                                                                                           | Offered breaker is Floor rolled type hence any Lifting trolley is not applicable.           | Acceptable                                                                                                                                                      |
| 117.0 | 8(p) | p) The bus PT/relay compartments shall have degree of protection not less than IP:52 in accordance with IS:2147. However, remaining compartments can have a degree of protection of IP:42. All louvers if provided shall have very fine brass or GI mesh screen, IPH-2 degree of protection as per IS: 3427 to all live parts shall (whether isolated or removed from panel) even when the breaker compartment door is open. Tight fitting garments / gaskets are to be provided at all openings in relay compartment. | Degree of protection shall be IP4X for total enclosure and IP2X within compartments.        | Acceptable as per type test for the offered item.                                                                                                               |
| 118.0 | 8(q) | q) The switchboard shall have the facility of extension on the both sides of Adapter panels and dummy panels required to meet the Busbar.                                                                                                                                                                                                                                                                                                                                                                              | Kindly confirm the requirement of dummy panels & any adaptor panel shall not be applicable. | Supply of dummy panel is not envisaged. However the provision in space to extend or add at least one (01) no of additional feeder in future shall be available. |
| 119.0 | 9(a) | The Current density of 1.6Amps/sq. mm shall be considered for the bus bars.                                                                                                                                                                                                                                                                                                                                                                                                                                            | Current density shall be as per type tested design.                                         | Acceptable                                                                                                                                                      |

## **ANNEXURE-I**

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| 120.0 | 9(b)  | b) All bus bars connections shall be firmly and rigidly mounted on suitable insulators to withstand short circuit stresses and vibrations. 'Self-supported busbar' design will be acceptable if the same is ratified by type tests for the specified rating and busbar support drawings approved during type tests shall be furnished with the offer.         | The offered bus bars shall be self supporting & they shall be supported from spout bushing of the circuit breaker itself. Please note that the offered switchgear is type tested (including internal arc test) without bus bar support insulators. Hence, we do not envisage separate insulators for supporting the bus bars. | Acceptable. Type test certificate shall be provided for the offered model.                                         |
| 121.0 | 9(c)  | c) All fasteners (Nuts Bolts) used for bus bar connections shall be of non-magnetic stainless steel. Only Belleville type washers shall be provided for each nut bolt. If the fasteners used are not of stainless steel the bidder shall state in their offer the material used and confirm that the same is non-magnetic and is superior to stainless steel. | Shall be as per manufacturer's standard type tested design.                                                                                                                                                                                                                                                                   | Acceptable. However non-magnetic Nuts and Bolts shall only be used.                                                |
| 122.0 | 9(g)  | g) The Bus Bar should be colour coded. Busbar shall have heat shrink coatings.                                                                                                                                                                                                                                                                                | We shall provide R,Y,B colour coded stickers on bus bars at regular interval for easy phase identification. However, we do not envisage colour coding of the bus bars.                                                                                                                                                        | Acceptable. Busbar shall have Heat Shrink Coating. Colour coded sticker on bus bar is acceptable.                  |
| 123.0 | 10(e) | e) Circuit breaker shall be suitable for rapid reclosing cycle i.e. 0-0.3 sec. -CO-30 sec.- CO.                                                                                                                                                                                                                                                               | Operating cycle shall be 0-0.3 . -CO-3 min.- CO.                                                                                                                                                                                                                                                                              | Acceptable.                                                                                                        |
| 124.0 | 10(l) | l) All circuit breakers have mechanical ON/ OFF indicator and spring charge indicator. These shall be visible from the front without opening the panel door. Also there shall be provision for mechanical (manual) tripping and                                                                                                                               | Mechanical Indication is available for Breaker ON-OFF, Breaker Operation, Spring Charge-Discharge. For Test, Service Indication we have provided LED indication lamp on LV Chamber.                                                                                                                                           | Acceptable. All necessary indication lamps for spring charge, Breaker ON , OFF, TRIP, TCH etc. shall be available. |

## **ANNEXURE-I**

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|       |       | also for manual charging of the springs.                                                                                                                                                                                                                                           |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                            |
| 125.0 | 10(t) | t) Circuit Breakers control switch shall be non- discrepancy type                                                                                                                                                                                                                  | Shall be as per manufacturer's standard design.                                                                                                                                       | Acceptable                                                                                                                                                                                                                                                                                 |
| 126.0 | 11(a) | a) Bidder shall design the cable chamber for cable entry from rear bottom side of the switchgear for both Incomer and outgoing feeders, suitable for 3 Core XLPE,11 KV grade, Aluminium, 240 mm 2 .The cable termination height shall be at least 750 mm in the cable compartment. | We understood that all the panels are with single run three core cable of 240mm size only.                                                                                            | All cable chambers shall be designed to accommodate minimum two(02) runs of 3C X 240 sq.mm Al cable to cater to the future load growth. Exact no of cable runs to be connected during project commissioning will be notified by corrigendum published against HT cable Specification-A13.1 |
| 127.0 | 12    | CURRENT TRANSFORMERS                                                                                                                                                                                                                                                               | Kindly confirm ratio, accuracy class, VA burden, ISF value, class PS parameters etc. required for deatiled working.                                                                   | The project is on LSTK basis. The bidder is requested to calculate the CT ratio based on the requirement mentioned in the tender. CT details shall be designed by bidder considering that current load and future load growth to the tune of 10 MW.                                        |
| 128.0 | 12    | CURRENT TRANSFORMERS                                                                                                                                                                                                                                                               | CT VA burden shall be 5 VA. Calculation for the same shall be submitted during detailed engineering.                                                                                  | CT burden shall be such that it can accommodate additional meters and relays in future. Detailed calculation required to be submitted by successful bidder during detail engineering.                                                                                                      |
| 129.0 | 14    | 14.0 Numerical relay                                                                                                                                                                                                                                                               | Kindly confirm the busbar differential protection required or not alos confirm whether partial bus differential proetction is required complete bus differential protection required. | 11 kV panel shall be have complete busbar differential protection.                                                                                                                                                                                                                         |
| 130.0 | 15(e) | e) Multifunction meter (MFM) shall be used in feeders for                                                                                                                                                                                                                          | We have offered secure make Elite 445 MFM please confirm.                                                                                                                             | EMS system to be designed by bidder. Selection of multifunction meter shall be in                                                                                                                                                                                                          |

## **ANNEXURE-I**

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|       |        | displaying the minimum following electrical parameters:                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                            | accordance to the tender specification such that data is available in EMS system as required.    |
| 131.0 | 15 (f) | f) Static digital tri-vector energy meter suitable for 3-phase 4-wire un-balanced load and CT, PT, ratio mentioned above, 0.5 accuracy class with load, survey and TOD/Tariff and MRI facility to be provided in both incomers. Please refer A1 5 for detailed specifications of the tri-vector meter. | Please reconfirm the requirement of energy meters also please confirm whether ABT function required or not.                                                                                                                                                                                                                                                                                                                                                | No Trisector meter is required in 11 kV switchgear panel. Same will be notified vide corrigendum |
| 132.0 | 16     | 16.0 Auxiliary/ Control Wiring:                                                                                                                                                                                                                                                                        | Wiring shall be as per below detail,<br>1) CT Wiring : 2.5 sqmm FRLS R/Y/B/Black coloured wires<br>2) PT wiring : 1.5 sqmm FRLS R/Y/B/Black coloured wires<br>3) DC Control : 1.5 sqmm FRLS Grey coloured wires<br>4) AC Control : 1.5 sqmm FRLS Black coloured wires<br>5) Interpanel DC : 2.5 sqmm FRLS Grey coloured wires<br>6) Interpanel AC : 2.5 sqmm FRLS Black coloured wires<br>7) Earthing : 2.5 sqmm / 4 sqmm FRLS Green/Yellow coloured wires | Acceptable for cable size. However other specifications as per tender shall have to be fulfilled |
| 133.0 | 22     | 22.0 NAME PLATE AND DIAGRAM PLATES:                                                                                                                                                                                                                                                                    | Name plates / labels etc. shall be provided as per our standard practice.                                                                                                                                                                                                                                                                                                                                                                                  | Name plate as per OEM standard is acceptable.                                                    |
| 134.0 | 25     | 25.0 INSPECTION:                                                                                                                                                                                                                                                                                       | Stage inspection shall not be applicable.                                                                                                                                                                                                                                                                                                                                                                                                                  | Pre -dispatch inspection will be carried out by OIL as mentioned in the tender.                  |
| 135.0 | 26     | 26.0 PACKING AND FORWARDING:                                                                                                                                                                                                                                                                           | Packing of the offered panels shall be suitable for indoor storage. Storage/Installation                                                                                                                                                                                                                                                                                                                                                                   | Packing and storage as required will be under the                                                |

## **ANNEXURE-I**

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|--------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                          | conditions should be followed as specified in IEC 62271-200 for domestic packing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | scope of Bidder only till handover of the project.                                                                                                                  |
| 136.0                                            | Mandatory spares | SMPS                                                                                                                                                                                                                                                                                                                                                                                                                                     | Any SMPS shall not be in ABB scope.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Any SMPS, if used in any equipment like 33 or 11 kV panels, UPS, Synchronisation panel or any other equipment shall be under the scope of bidder as mandatory spare |
| 137.0                                            |                  | Transducer                                                                                                                                                                                                                                                                                                                                                                                                                               | Please confirm the requirement of transducer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Any transducer, used in any equipment like 33 or 11 kV panels, UPS etc. shall have to be provided as mandatory spare by the bidder                                  |
| 138.0                                            | General comments | Earthing device                                                                                                                                                                                                                                                                                                                                                                                                                          | We have offered non fault making earthing truck for bus side & cable side please confirm the same.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Acceptable                                                                                                                                                          |
| 139.0                                            | General comments | Line PT                                                                                                                                                                                                                                                                                                                                                                                                                                  | Part of Incomer No separate panel shall be provided.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Acceptable. However the line PT shall be withdrawable type for isolation.                                                                                           |
| Technical Specification-A01(33 kV Specification) |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                     |
| 140.0                                            | General comments | Line PT                                                                                                                                                                                                                                                                                                                                                                                                                                  | Part of Incomer No separate panel shall be provided.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Acceptable. PT shall have the provision to isolate or withdraw.                                                                                                     |
| 141.0                                            | 8(b)             | b) Metals: Iron and Steel are generally to be painted or galvanized as appropriate. Indoor parts may alternatively have chromium or copper-nickel plates or other approved protective finish. Small iron and steel parts (other than rustless steel) of all instruments and electrical equipment, the cores of electromagnets and the metal parts of relays and mechanisms shall be treated in an appropriate manner to prevent rusting. | Painting: We have offered panels made up of special material called "Alu Zinc". Alu Zinc is light in weight, has more strength, and extremely corrosion resistant compared to normal CRCA sheets and this does not require any surface treatment like powder coating. Panels shall be made up of Alu Zinc material except front doors & end covers which shall be painted sheet steel. We shall provide powder coated paint only for front doors and end covers, which shall be made of CRCA sheet. However, painting procedure and thickness shall be as per our standard procedure C3 paint procedure is shared. | Acceptable                                                                                                                                                          |

## **ANNEXURE-I**

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|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 142.0 | 8(d) | d) Rubbers: Neoprene and similar synthetic compounds, not subject to deterioration due to the climatic conditions, shall be used for gaskets, sealing rings, diaphragms, etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Gaskets shall be of EPDM material which is superior to Neoprene. In addition, they both offer good resistance to weathering and abrasion. However, EPDM is superior to neoprene in UV and Ozone resistance and may be more favorable when heat resistance is a factor. EPDM seals also provide better flexibility at low temperatures compared to neoprene.                                                                                                                      | Acceptable                                         |
| 143.0 | 8(e) | e) The switchgear shall be of CRCA steel / corrosion proof aluminium-zinc construction with sheet not less than 3 mm thickness for load bearing section and not less than 2mm thickness for non-load bearing and shall totally dust and vermin proof. However, if vendor has standardized the thickness of enclosure other than above mentioned and it meets the performance requirements and the design has been established through type test, the same shall be accepted. The panels shall be rigid without using any external bracings. The switchboard panels should comply with relevant IS / IEC and revision thereof and shall be designed for easy operation maintenance and further extension. | Sheet Steel material - Offered Panels are made of Aluzinc material, which is corrosion proof. The sheet steel is coated with unique silvery spangle composed of Al (55%) Zinc (43%) and silicon (1.6%) for perfect harmony with steel. Aluzinc sheet thickness shall be 2.0 mm. However front doors and end covers are made of CRCA sheet thickness 2 mm with special re-enforcement. The design has been type tested for full short circuit rating for internal arc resistance. | Acceptable subject to the submission of Type test. |
| 144.0 | 8(j) | j) The breakers should be able to be drawn out in horizontal position at ground level [with vertical/ horizontal isolation].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Offered breaker is cassette mounted type & 1No separate trolley will be supplied                                                                                                                                                                                                                                                                                                                                                                                                 | Acceptable                                         |
| 145.0 | 8(p) | p) The bus PT/relay compartments shall have degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Degree of protection shall be IP4X for total enclosure and IP2X within compartments.                                                                                                                                                                                                                                                                                                                                                                                             | Acceptable                                         |

## **ANNEXURE-I**

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|       |      | of protection not less than IP:52 in accordance with IS:2147. However, remaining compartments can have a degree of protection of IP:42. All louvers if provided shall have very fine brass or GI mesh screen, IPH-2 degree of protection as per IS: 3427 to all live parts shall (whether isolated or removed from panel) even when the breaker compartment door is open. Tight fitting garments / gaskets are to be provided at all openings in relay compartment. |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |
| 146.0 | 8(q) | q) The switchboard shall have the facility of extension on the both sides of Adapter panels and dummy panels required to meet the Busbar.                                                                                                                                                                                                                                                                                                                           | dummy panels & any adaptor panel shall not be considered                                                                                                                                                                                                                                                                      | Supply of dummy panel is not envisaged. However the provision in space to extend or add at least one(01) no. of additional feeder in future shall be available. |
| 147.0 | 9(b) | b) All bus bars connections shall be firmly and rigidly mounted on suitable insulators to withstand short circuit stresses and vibrations. 'Self-supported busbar' design will be acceptable if the same is ratified by type tests for the specified rating and busbar support drawings approved during type tests shall be furnished with the offer.                                                                                                               | The offered bus bars shall be self supporting & they shall be supported from spout bushing of the circuit breaker itself. Please note that the offered switchgear is type tested (including internal arc test) without bus bar support insulators. Hence, we do not envisage separate insulators for supporting the bus bars. | Acceptable subject to the submission of Type test.                                                                                                              |
| 148.0 | 9(c) | c) All fasteners (Nuts Bolts) used for bus bar connections shall be of non-magnetic stainless steel. Only Belleville type washers shall be provided for each nut bolt. If the fasteners used are not of stainless steel the bidder                                                                                                                                                                                                                                  | Shall be as per manufacturer's standard type tested design.                                                                                                                                                                                                                                                                   | Acceptable. Please ensure non-magnetic Nuts & Bolts are used.                                                                                                   |

## ANNEXURE-I

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|       |       | shall state in their offer the material used and confirm that the same is non-magnetic and is superior to stainless steel.                                                                                                                                                                      |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 149.0 | 9(g)  | g) The Bus Bar should be colour coded. Busbar shall have heat shrink coatings.                                                                                                                                                                                                                  | We shall provide R,Y,B colour coded stickers on bus bars at regular interval for easy phase identification. However, we do not envisage colour coding of the bus bars.              | Acceptable. Busbar shall have Heat Shrink Coating. Colour coded sticker on bus bar is acceptable.                                                                                                                                                                                                                                                                                                                                                                               |
| 150.0 | 109e) | e) Circuit breaker shall be suitable for rapid reclosing cycle i.e. 0-0.3 sec. -CO-30 sec.- CO.                                                                                                                                                                                                 | Operating cycle shall be 0-0.3 . -CO-3 min.- CO.                                                                                                                                    | Acceptable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 151.0 | 10(l) | l) All circuit breakers have mechanical ON/ OFF indicator and spring charge indicator. These shall be visible from the front without opening the panel door. Also there shall be provision for mechanical (manual) tripping and also for manual charging of the springs.                        | Mechanical Indication is available for Breaker ON-OFF, Breaker Operation, Spring Charge-Discharge. For Test, Service Indication we have provided LED indication lamp on LV Chamber. | Acceptable. All necessary indication lamps for spring charge, Breaker ON, OFF, TRIP, TCH etc. shall be available.                                                                                                                                                                                                                                                                                                                                                               |
| 152.0 | 11(a) | a) Bidder shall design the cable chamber for cable entry from rear bottom side of the switchgear for both Incomer and outgoing feeders, suitable for 3 Core XLPE, 11 KV grade, Aluminium, 240 mm <sup>2</sup> . The cable termination height shall be at least 750 mm in the cable compartment. | We understood that all the panels are with single run three core cable of 240mm size only.                                                                                          | The tender specification is as follows "Bidder shall design the cable chamber for cable entry from rear bottom side of the switchgear for both Incomer and outgoing feeders, suitable for 3 Core XLPE, 33 KV grade, Aluminium, 300 mm <sup>2</sup> . The cable termination height shall be at least 750 mm in the cable compartment." All chambers shall be designed to accommodate minimum one (01) nos of 300 sq.mm cable. Details of the cable length and no of runs will be |

## **ANNEXURE-I**

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|       |       |                                                                                                                    |                                                                                                                                                                                       | notified by corrigendum published against HT cable Specification-A13.1                                                                                                                                                                             |
| 153.0 | 12    | CURRENT TRANSFORMERS                                                                                               | Kindly confirm ratio, accuracy class, VA burden, ISF value, class PS parameters etc. required for detailed working.                                                                   | The project is a LSTK basis. The bidder is requested to calculate the CT ratio based on the requirement mentioned in the tender. CT details shall be designed by bidder considering that current load and future load growth to the tune of 10 MW. |
| 154.0 | 12    | CURRENT TRANSFORMERS                                                                                               | CT VA burden shall be 5 VA. Calculation for the same shall be submitted during detailed engineering.                                                                                  | CT burden shall be such that it can accommodate additional meters and relays in future. Detailed calculation shall be submitted                                                                                                                    |
| 155.0 | 14    | 14.0 Numerical relay                                                                                               | Kindly confirm the busbar differential protection required or not also confirm whether partial bus differential protection is required complete bus differential protection required. | No bus bar protection for the 33 kV switchgear panel is envisaged. Amendment in specification will be provided.                                                                                                                                    |
| 156.0 | 15(d) | d) Multifunction meter (MFM) shall be used in feeders for displaying the minimum following electrical parameters:  | We have offered secure make Elite 445 MFM please confirm.                                                                                                                             | EMS system to be designed by bidder. Selection of multifunction meter shall be in accordance to the tender specification such that required data as per tender shall be displayed in EMS system.                                                   |
| 157.0 | 15(e) | e) Power quality analyser                                                                                          | Please reconfirm the requirement.                                                                                                                                                     | As OIL will be drawing bulk power from Grid, it is critical for OIL to check the quality of the received grid power continuously.                                                                                                                  |
| 158.0 | 15    | f) Static digital tri-vector energy meter suitable for 3-phase 4-wire un-balanced load and CT, PT, ratio mentioned | Please reconfirm the requirement of energy meters also please confirm whether ABT function required or not.                                                                           | Tri-vector meter is essential for energy auditing purpose as per Time of Day(ToD) and 15 minutes time block as                                                                                                                                     |

## **ANNEXURE-I**

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|       |                                         | above, 0.5 accuracy class with load, survey and TOD/Tariff and MRI facility to be provided in both incomers. Please refer A1 5 for detailed specifications of the tri-vector meter. |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | maintained by the state utility. The ABT function is required.                                                                     |
| 159.0 | 16                                      | 16.0 Auxiliary/ Control Wiring:                                                                                                                                                     | Wiring shall be as per below detail,<br>1) CT Wiring : 2.5 sqmm FRLS R/Y/B/Black coloured wires<br>2) PT wiring : 1.5 sqmm FRLS R/Y/B/Black coloured wires<br>3) DC Control : 1.5 sqmm FRLS Grey coloured wires<br>4) AC Control : 1.5 sqmm FRLS Black coloured wires<br>5) Interpanel DC : 2.5 sqmm FRLS Grey coloured wires<br>6) Interpanel AC :2.5 sqmm FRLS Black coloured wires<br>7) Earthing : 2.5 sqmm / 4 sqmm FRLS Green/Yellow coloured wires | Acceptable for cable size. However other specifications as per tender shall have to be fulfilled.                                  |
| 160.0 | 22                                      | 22.0 NAME PLATE AND DIAGRAM PLATES:                                                                                                                                                 | Name plates / labels etc. shall be provided as per our standard practice.                                                                                                                                                                                                                                                                                                                                                                                 | Name plate as per OEM standard is acceptable.                                                                                      |
| 161.0 | 25                                      | 25.0 INSPECTION:                                                                                                                                                                    | Stage inspection shall not be applicable.                                                                                                                                                                                                                                                                                                                                                                                                                 | Pre -dispatch inspection will be carried out by OIL as mentioned in the tender.                                                    |
| 162.0 | 26                                      | 26.0 PACKING AND FORWARDING:                                                                                                                                                        | Packing of the offered panels shall be suitable for indoor storage. Storage/Installation conditions should be followed as specified in IEC 62271-200 for domestic packing.                                                                                                                                                                                                                                                                                | Packing and storage as required will be under the scope of Bidder only till handover of the project.                               |
| 163.0 | Mandatory spares (technical spare: A26) | Transducer                                                                                                                                                                          | Please confirm the requirement of transducer                                                                                                                                                                                                                                                                                                                                                                                                              | Any transducer, used in any equipment like 33 or 11 kV panels, UPS etc. shall have to be provided as mandatory spare by the bidder |

## **ANNEXURE-I**

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| 164.0   | Type Test                        | 5MVA Transformer            | Type Test: Similar or Higher rating shall be provided.                                                                                                 | Report of type tested design of the offered transformer shall be submitted.                                                                                                             |
| 165.0   | Make                             | Transformer                 | Please clarify Is it possible to provide two different make                                                                                            | Power Transformer and Station transformer can be of different make. However, Preferred list for oil type transformer Schneider, Raychem, VoltAmp, Bharat Bijulee, CG, Cahors , RTS etc. |
| 166.0   | cable connection                 | 500kVA Dry Type Transformer | We have considered Cable connection on secondary side with cable box instead of Busduct.                                                               | Acceptable                                                                                                                                                                              |
| E-house |                                  |                             |                                                                                                                                                        |                                                                                                                                                                                         |
| 167.0   | Dimension (Specification No:A21) | E House                     | Dimensions and Design shall be per ABB considering the Loads/Feeders as specified in Tender. However general philosophy shall be as per specifications | Acceptable                                                                                                                                                                              |
| 168.0   | Dimension (Specification No:A21) | E House_ future load        | No future space for MV/LV panel is considered.                                                                                                         | Provision in space shall be kept both at 33 kv AIS and 11 kV AIS to accommodate at least one(01) additional spare feeder in future.                                                     |
| 169.0   | Dimension (Specification No:A21) | E House                     | E House dimensions shall be as specified in the offer as per loads / feeder list.                                                                      | Acceptable. Clearances as mentioned as per CEA requirement to be maintained.                                                                                                            |
| 170.0   | A27_Scope Matrix_24              | E House _Aircondition       | Part of E house supplier scope                                                                                                                         | The project is a LSTK project. Air Condition in E-House is under bidder's scope.                                                                                                        |
| 171.0   | A27_Scope Matrix_25              | E House _CCTV               | Part of E house supplier scope                                                                                                                         | The project is a LSTK project. CCTV in E-House is under bidder's scope.                                                                                                                 |
| 172.0   | GTP-17: Sl No 2.2 E-House        | Electrical Switchgear Room  | Elevation 2mtr from Ground considered with foundation 200mm and structure 1.8Mtr without Cable trench                                                  | Acceptable, subject to the tender requirement that the 2.0 m height is measured from the finished ground level to the E-house floor finish level.                                       |

## **ANNEXURE-I**

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|       |                                           |                                                    |                                                                              | Foundation, supports and cable-trench/interface requirements shall be as per approved civil design.                                                                                                                                                 |
| 173.0 | GTP-17: SI No 2.3 E-House                 | Control Room                                       | Flush floor & Flush ceiling is not considered.                               | Acceptable                                                                                                                                                                                                                                          |
| 174.0 | GTP-16: Fire detection and alarm system   | CO <sub>2</sub> Fire Extinguishers 6.5 kg capacity | 4Nos Per E House Instead of 20nos                                            | Bidder to supply Fire Extinguisher as tender document only.                                                                                                                                                                                         |
| 175.0 | GTP-16: Fire detection and alarm system   | DCP Fire Extinguishers                             | 4Nos Per E House Instead of 20nos                                            |                                                                                                                                                                                                                                                     |
| 176.0 | Battery charger                           | Battery charger                                    | Thyrister Based dual FCBC with common Battery Bank considered please confirm | Acceptable.                                                                                                                                                                                                                                         |
| 177.0 | UPS (Technical Specification:A1 2.2)      | UPS Back Up details                                | Kindly specify the UPS Back Up time                                          | UPS back up time: Minimum 3 hours                                                                                                                                                                                                                   |
| 178.0 |                                           | UPS & Battery Charger                              | Common Battery Bank can be used for UPS and Battery charger                  | Spare battery bank required to be considered for UPS and battery charger                                                                                                                                                                            |
| 179.0 | DB                                        | UPSDB & DCDB                                       | Wall Mounting Type.                                                          | Acceptable.                                                                                                                                                                                                                                         |
| 180.0 | Foundation (Specification no:A25(CI:5.1)) | Civil                                              | We have not considered any Pile foundation for Ehouse & Transformer etc      | Type of foundation shall be decided by the bidder based on the soil investigation/geotechnical data and structural design. Final civil foundation design/drawings shall be submitted to OIL Civil Engineering Department for verification/approval. |
| 181.0 | Soil Resistivity (Specification No:A24)   | Earthing                                           | For calculation purpose we have soil resitivity of 65ohm-meter               | The bidder shall establish/verify soil resistivity as required for the earthing design and design the system in accordance with applicable CEA requirements and IS 3043. The tender requires overall earth resistance not                           |

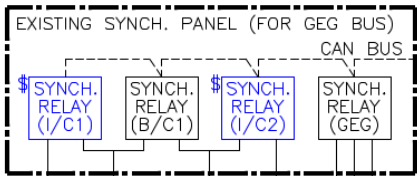
## **ANNEXURE-I**

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|       |                                           |                                                             |                                                                                                | exceeding 1 ohm, with individual electrode resistance as required by the approved design/standard.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 182.0 | Scope<br>(Specification no: A06)          | 3 MW GEG syncroinisation panel with the help of OEM of GEG. | Only Modifications with respect to intrellocks and no addtion of any relays etc.               | Vendor is responsible to carry out all necessary modification as mentioned in the tender for successful synchronisation of 3 MW GEG with Grid                                                                                                                                                                                                                                                                                                                                                                                                           |
| 183.0 | Design<br>(Specification no:A05)          | LT panel                                                    | Fixed Type design with ACB/MCCB withdrawable type.                                             | Acceptable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 184.0 | Feeder ratings<br>(Specification no:A05)  | LT panel                                                    | 1000A ACB- 5Nos<br>400A MCCB-4Nos<br>63A-16Nos (for UPS/Charger/Ltg/SWGR)                      | Acceptable. However the quantity of feeders shall be assessed by vendor considering the internal LT power requirement of 33/11 kV substation and out door units under the project scope                                                                                                                                                                                                                                                                                                                                                                 |
| 185.0 | Rating<br>(Specification No-A0(Cl.No.C-5) | NGR                                                         | We have considered NGR rating 200A, 31.75 Ohm for 10sec with On load switch (2 nos)            | NGR shall <del>be</del> effectively restrict the fault current to 192 A at 11 KV in system voltage. Accordingly, an NGR of 33 ohm is required to be installed. The specification of the NGR is as follows: a) Service: Outdoor, b) Rated Voltage: $11/\sqrt{3}$ kV, c) Rated current : 192.5 A for 10 sec, d) Rated Resistance: 33 ohm, e) Specific resistance of material: 73 micro ohm cm, Temp.co-efficient of resistance: $0.00094/^{\circ}$ , f) Temperature rise over amb of $40^{\circ}$ C= $750^{\circ}$ C rise, g) NGR standard: IEEE STD. 32, |
| 186.0 | A27_Scope<br>Matrix_23                    | existing Highmast                                           | Removal & Installation of esiting Highmast Not in ABB scope since non availability of details. | In case of bidder finds that the existing highmast is required to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## ANNEXURE-I

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|       |                            |                                                                                |                                                                                                       | be shifted as per their design requirement then bidder to shift the High mast and install the same inside the premise of Moran power station. New location will be inside the premise of Moran Power station only and within 30 meters appx from current location. Use of High mast for stance will be within 30 meter from the present setup. |
| 187.0 | A27_Scope Matrix_31        | Feeder shifting from from GTG 11 kV switchboard to E-house 11 kV switchboard   | We have considered 2IC+1BC+14OG+BR -Total 18Feeders<br>Note: LPT part of IC BPT - Not considered.     | PTs to be considered as well: a) Individual Bus PT for both Bus section, b) Individual Line PT for both interconnector and Incomers                                                                                                                                                                                                            |
| 188.0 | A27_Scope Matrix_36        | External earthing network around Ehouse on ground & Construction of Earth pits | For design purpose we have soil resitivity of 65ohm-meter                                             | The bidder shall establish/verify soil resistivity as required for the earthing design and design the system in accordance with applicable CEA requirements and IS 3043. The tender requires overall earth resistance not exceeding 1 ohm, with individual electrode resistance as required by the approved design/standard.                   |
| 189.0 | GTP-17: SI No 13.1 E-House | I FAT                                                                          | Installation/Testing & Commissioining of complete integrated equipments with E House Shall be at Site | FAT of critical electrical items like 33 kV AIS, 11 kV AIS, Power Transformer, Station transformer, UPS, battery charger etc. will be carried out at the OEM's workshop. However final inspection of the integrated assembly will be carried out at site as well at the                                                                        |

## ANNEXURE-I

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|       |                                                                    |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                        | OEM's workshop before dispatch, as applicable                                                                                                                                                                                   |
| 190.0 | GTP-6: LT PANEL                                                    | Type-Draw-out, Electrically Operated                                                                              | Panel is fixed However 1000A ACB & 400A OG MCCB are draw out type , 63A/32A MCCB shall be fixed type                                                                                                                                                                                                                                   | Acceptable                                                                                                                                                                                                                      |
| 191.0 | Cables                                                             | 33kV & 11kV HT cable & LT Power Cable                                                                             | Kindly specify the HT/LT & Control cable scope of supply.<br>Kindly specify the Load details & No of Runs of following.<br>33kV Incomer and Approx Length/No of Runs<br>11kV OG to Field & approx Length/No of Runs<br>1.1kV OG to Field & Approx Length/No of Runs.                                                                   | Cable details will be notified by a corrigendum issued against <b>specifiaction A13.1</b>                                                                                                                                       |
| 192.0 | CI No 1.0 A i)<br>Page 102 of 271<br>(Technical Specification-A06) | Grid synchronization control                                                                                      | Please share us existing synchronization scheme drawing                                                                                                                                                                                                                                                                                | Shall be made available vide corrigendum                                                                                                                                                                                        |
| 193.0 | CI No 6page 104 of 271                                             | Grid synchronization control<br> | As per the GTP, we understand microprocessor-based synchro check relay to be provided with Voltage matching, frequency matching & phase angle matching. However, this feature is required only in the generator feeder breaker. But, as per the given GIPL SLD, sync relay at the generator feeder not to be replaced. Please clarify. | No change of synch check relays in the existing GEG 11 kV panel is envisaged. However, the new 11 kV panel inside the E-house shall have microprocessor based synch check relay as indicated in the Annex:A06.1 of P362 of 511. |
| 194.0 | GIPL - SLD                                                         | Grid synchronization control                                                                                      | Please confirm, sync relay at B/C & Generator feeder to be replaced to meet above-mentioned clarification.                                                                                                                                                                                                                             | We do not envisage the requirement of replacement of synch relay at BC and Generator feeder. However the requirement shall be discussed with GEG OEM and necessary changes to be incorporated by the bidder.                    |
| 195.0 | CI No 9 Page No 105 of 271                                         | Grid synchronization control                                                                                      | Please give us more details on existing GEG panel integration with new Grid synchronization control. Is it related to inter                                                                                                                                                                                                            | All necessary activities including inter panel wiring between synchronisation                                                                                                                                                   |

## **ANNEXURE-I**

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|       |                            |                              | panel wiring between new and existing sync control panel or information exchange over communication network? Please clarify     | panels of GEG and E-house for successful commissioning of the project shall be under the scope of bidder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 196.0 | CI No 9 Page No 105 of 271 | Grid synchronization control | Please give us more details on fail safe operation requirement.                                                                 | The Grid Synchronisation Panel shall be designed on fail-safe philosophy such that failure/loss of any critical input, auxiliary supply, synchronising relay, VT/PT input, breaker status feedback, protection/interlocking signal or other essential synchronisation function shall result in withdrawal/blocking of the breaker closing permissive. No single failure within the synchronisation system shall result in unintended closing of the grid circuit breaker under unsynchronised conditions. Breaker closing shall be permitted only when the programmed synchronism-check conditions are satisfied, including voltage magnitude, frequency/slip, phase-angle difference and phase-sequence verification, as applicable. The synchronising permissive shall be generated only under healthy and valid measurement conditions. |
| 197.0 | GCC                        | 12.4.8 : Change in Law       | request to accept the modified clause 12.4.8 - "Claim for payment of GST/ Statutory variation, should be raised within two [02] | No Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## ANNEXURE-I

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|       |     |                             | months from the date of issue of 'Government Notification' for payment of differential (in %) GST.", <del>otherwise claim in respect of above shall not be entertained for payment of arrears.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |
| 198.0 | GCC | 16: Limitation of Liability | <p>request to accept the modified clause as -</p> <p>a) Notwithstanding any other provisions herein to the contrary, except only in cases of Wilful misconduct and/or criminal acts and/or criminal negligence, neither the CONTRACTOR nor the COMPANY (OIL) shall be liable to the other, whether in Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided <del>however that this exclusion shall not apply to any obligation of the CONTRACTOR to pay Liquidated Damages to the COMPANY and/or COMPANY's right to forfeit the Performance Bank Guarantee(s) in terms of the contract</del></p> <p>b) Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the CONTRACTOR in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 100% of the Contract Price (if not specified otherwise in SCC), provided however that this limitation shall not apply to the <b>Contractor's</b> cost of repairing or replacing defective equipment <del>by the CONTRACTOR</del>, or to any obligation of the CONTRACTOR to indemnify the COMPANY with respect to Intellectual Property Rights</p> | No Change |
| 199.0 | GCC | 32: Set off                 | <p>request to accept modified clause -</p> <p>Any sum of money due and payable to the</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No Change |

## ANNEXURE-I

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|       |     |                                | CONTRACTOR (including Performance Security refundable to them) under this Contract <del>or any other Contract, whether in progress or in future</del> , 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 <del>under any other contract</del> made by the CONTRACTOR with OIL (or such other person or persons contracting through OIL)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                   |
| 200.0 | GCC | 19: Risk purchase              | Request to accept that - this clause is subject to modified Limitation of liability clause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No Change                                                                                         |
| 201.0 | GCC | 1.0; 2.0L Order of Precedence  | request to accept that -" ABB offer shall form the part of this Contract"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Contract to the successful bidder will be awarded based on the evaluation of bidder's offer only. |
| 202.0 | GCC | 30.0(a)–(d):Liquidated Damages | <p>Cl 30 (a) - request to accept the modified clause - Time is the essence of this Contract. If the CONTRACTOR repeatedly fails despite reasonable cure period given by OIL to mobilize and deploy the required manpower/equipment and/or fails to commence the operation within the period specified as specified under mobilization clause under SCC, OIL shall have, without prejudice to any other right or remedy in law or contract including sub clause (b) below, the right to terminate the contract</p> <p>Cl 30 (b) - Request to accept that - this clause shall not applicable in case of delays not attributable to Contractor . Liquidated Damages shall be sum equivalent to @ 0.5% of contract value including mobilization cost, per week or part thereof of delay subject to maximum of 5% <del>7.5%</del> of the Contract Price</p> | No change. However, GST shall not be applicable on LD                                             |

## ANNEXURE-I

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|       |     |                                           | Cl 30 (d) - Request to accept that - GST shall not be applicable on LD                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                             |
| 203.0 | GCC | 44.0-44.10: Termination by Company (OIL)  | Cl 44.10 - request to accept that - For any reasons of Termination , Contractor shall be paid for the works executed / in progress as on the date of Termination                                                                                                                                                                                                                                                                                                                                                                                   | Clarified that obligations of both the parties shall be limited to the period till the date of termination. |
| 204.0 | GCC | 23.0-23.2: Warranty and Remedy of Defects | request to accept that - "warranty shall be 18 months from the date of supply completion or 12 months from the date of commissioning whichever is earlier "                                                                                                                                                                                                                                                                                                                                                                                        | No change                                                                                                   |
| 205.0 | GCC | 31: Force Majeure                         | The following paragraph shall not apply : <b><del>Should either party decide not to terminate the Contract even under such condition, no payment would apply after expiry of fifteen (15) days force majeure period</del></b><br><br>request to replace "72 hours" with "10 working days"                                                                                                                                                                                                                                                          | No change                                                                                                   |
| 206.0 | GCC | 19: RISK PURCHASE                         | Unless the maximum liquidated damages limit has reached and the reasons are solely attributable to ABB and reasonable cure period with prior written notice shall be provided to ABB to cure the defect and if the reasons for delay, non-performance by ABB is due to Force Majeure event, the Purchaser will not be entitled for right for remedy against ABB under this Contract and the risk purchase claim shall be limited to to the extent of differential amount as per reasonable market price mutually agreed between ABB and Purchaser. | Not acceptable                                                                                              |
| 207.0 | new | new: indemnity                            | Purchaser shall indemnify ABB from any third party claims if the reasons for the claim(s) are not solely attributable to ABB under this Contract. Purchaser shall fully indemnify ABB for any statutory compliances that are applicable to the Purchaser under this Contract. The Purchaser shall indemnify and                                                                                                                                                                                                                                    | Not acceptable                                                                                              |

## ANNEXURE-I

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|       |     |                       | hold harmless ABB against any and all losses, claims, expenses, liabilities and damages for: (a)personal injury or death to any employee of the Purchaser or any third party; and (b)loss or damage to any property of the Purchaser or any third party, except in the event such personal injury, death, loss or damage is a direct result of ABB's gross negligence.                                                                                                                                                                                                                                                                                                                                          |                                  |
| 208.0 | new | new: data access      | ABB will have right to access data in the supplied assets provided to Purchaser under this Contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Not acceptable                   |
| 209.0 | new | new: statutory        | <b>Any statutory registration/approval/permit/consent/license required in this Tender/Contract including approvals required under laws SHALL NOT BE IN the scope of Bidder/ABB under this Tender/Contract and all statutory approvals required under this Tender/Contract shall be fully in the scope of responsibility and adherence of Purchaser.</b>                                                                                                                                                                                                                                                                                                                                                         | Not acceptable                   |
| 210.0 | new | new: compliance       | Both Parties shall fully adhere and comply with all the applicable Indian laws including but not limited to laws, rules, regulations, decrees and/or official governmental orders relating to anti-bribery laws and anti-corruption, protecting human rights laws, anti-money laundering and anti-tax evasion laws, trade control and import/export laws ("integrity laws") applicable to the Parties and performance of this Contract in India. Parties hereby agree that only in the event of a non-compliance of integrity laws either party has a right to terminate this Contract after giving a written notice of thirty (30) days to cure the said non-compliance. ABB adheres with ABB Code of Conduct. | Please be guided by tender terms |
| 211.0 | new | new: trade compliance | (a) The Parties agree to comply with all applicable sanctions and export control laws in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not acceptable                   |

## **ANNEXURE-I**

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|  |  |  | <p>connection with this Agreement. Sanctions and export control laws and regulations include any applicable laws, regulations, or administrative or regulatory decisions or guidelines that sanction, prohibit or restrict certain activities including, but not limited to, (i) import, export, re-export, transfer, or trans-shipment of goods, services, technology, or software; (ii) financing of, investment in, or direct or indirect transactions or dealings with certain countries, territories, regions, governments, projects, or specifically designated persons or entities, including any future amendments to these provisions; or (iii) any other laws, regulations, administrative or regulatory decisions, or guidelines adopted, maintained, or enforced by any Sanctions Agency on or after the date of the Contract (collectively, "Trade Control Laws"). (b) The Parties confirm that they have not violated, shall not violate, and shall not cause the other Party to violate, any applicable Trade Control Laws. Each Party represents and warrants that, to the best of its knowledge, at the date of the Contract neither it, nor any of their respective directors or officers are a Restricted Person. Each Party agrees that it shall promptly notify the other Party if it becomes a Restricted Person. "Restricted Person" means any entity or person included on a list (including U.S. and EU lists) of targeted parties, blocked parties, or persons subject to asset-freezing or other restrictions introduced under any applicable Trade Control Laws (and includes any entity that is directly or indirectly owned fifty (50) percent or more, in the aggregate or individually, or otherwise controlled by any Restricted Person). (c) If, as a result of Trade Control Laws issued or amended after the date of the Contract, (i) the Purchaser or the end-</p> |  |
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## **ANNEXURE-I**

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|  |  |  | <p>user is/becomes a Restricted Person, or (ii) any necessary export license or authorization from a sanctions agency is not granted, the performance by ABB or any of its affiliates becomes illegal or impracticable, ABB shall be entitled to either immediately suspend the performance of the affected obligation under the Contract until such time as ABB may lawfully discharge such obligation or unilaterally terminate the Contract in whole or in part. ABB will not be liable to the Purchaser for any costs, expenses or damages associated with such suspension or termination of Contract. (d) The Parties undertake to obtain all the necessary licenses and/or permits from the competent authorities for the import or export, re-export, or in-country transfer of Equipment and Services. Equipment and Software, and the "direct product" thereof, that originate from the United States are subject to the U.S. Export Administration Regulations ("EAR") and must not be exported, re-exported, or transferred (in-country) without obtaining the necessary valid licenses/authorizations of the competent US authorities. At ABB's request, Purchaser shall provide to ABB a Letter of Assurance and End-User Statement in a form reasonably satisfactory to ABB. (e) The Purchaser represents and warrants that the Equipment and Services are for civil use only. The Purchaser further represents that it will not directly or indirectly sell, export, re-export, release, transmit or otherwise transfer any items received from ABB to any Restricted Parties, or parties that operate, or whose end use will be, in a jurisdiction/region prohibited by ABB including Belarus, Crimea, Cuba, Iran, North Korea, Russia, Syria, as well as the Donetsk, Luhansk, Kherson, and Zaporizhzhia</p> |  |
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## **ANNEXURE-I**

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|       |     |               | regions of Ukraine (such list may be amended by ABB at any time). (f) If the Purchaser infringes any obligations in this Trade Controls clause in connection with the Contract, the Purchaser must immediately notify ABB. Failure to comply with these Trade Compliance obligations shall be considered a material breach, and ABB shall have the right to unilaterally terminate the Agreement with immediate effect. Such termination would be without prejudice to all rights of recourse which could be exercised by ABB, and ABB shall not be liable to Purchaser for any claim, losses or damages whatsoever related to its decision to terminate performance under this provision. Further, Purchaser shall indemnify ABB for all liabilities, damages, costs, or expenses incurred as a result of any such violation, breach and/or termination of the Contract. ABB may report such violations to relevant authorities as required by applicable Trade Control Laws. (g) For the avoidance of doubt, no provision in this Contract shall be interpreted or applied in a way that would require any Party to do, or refrain from doing, any act which would constitute a violation of, or result in a loss of economic benefit under, applicable Trade Control Laws. |                                                                                                                                                                                |
| 212.0 | GCC | 12.4.6: Taxes | Cl - 12.4.6 - request to accept that GST Shall be as per prevailing rates at the time of invoicing during contractual and extended period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GST shall be limited to the rate quoted by the bidder except for any statutory variation after bid closing date. Bidder to be guided by Clause no. 13.0 of SCC related to GST. |
| 213.0 | SCC | General       | request to accept that - storage place and security of ABB supplied materials shall be excluded from supplier scope. Unloading shall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Not Acceptable. (Not acceptable. The tender is LSTK/EPC and the bidder is responsible for the complete                                                                         |

## **ANNEXURE-I**

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|       |     |                                               | be excluded from supplier scope . No civil works shall be in scope of supplier                                                                                                                                                                                                                                                                                                                                                                | scope, including specified civil works, site preparation, foundations and associated works. Storage/site security and unloading responsibilities shall remain as per tender.) |
| 214.0 | SCC | Instruction with respect to execution of work | request to accept that - No Govt. approvals/permits such as CEA approval along with other approvals/ govt certificates mentioned will be in scope of ABB . However , ABB will support the customer with respect to documents required for obtain such CEA approval                                                                                                                                                                            | Agreed                                                                                                                                                                        |
| 215.0 | SCC | warranty                                      | request to accept that - warranty shall be 18 months from the date of supply or 12 months from the date of commissioing whichever is earlier                                                                                                                                                                                                                                                                                                  | Warranty and Defect liability period is applicable for thr entire project. No change                                                                                          |
| 216.0 | SCC | Power supply                                  | request to clarify the rates for power usage .                                                                                                                                                                                                                                                                                                                                                                                                | In case of OIL power, the energy charges will be at the cost of generation. Approximate cost: Rs. 14.38/Kwh                                                                   |
| 217.0 | new | scope                                         | Scope of Work shall be as per mutually agreed BOQ between the Parties and any additional scope will entitle ABB additional costs from Purchaser                                                                                                                                                                                                                                                                                               | The project scope has been freezed and no change is envisaged.                                                                                                                |
| 218.0 | SCC | Liquidated damages                            | request to accept that this clause shall not apply for reasons of delay not attributable to supplier. Maximum ceiling shall be 5% of the contract value of udnelivered portion                                                                                                                                                                                                                                                                | No change                                                                                                                                                                     |
| 219.0 | new | intellectual property rights                  | It is clarified that all intellectual property rights under this Contract is limited and restricted to the right to use by the Purchaser for the limited purpose of this Contract only. all and any pre-existing intellectual property rights of ABB are not transferred under this Contract and ABB shall be exclusive owner and title holder for ABB pre-existing intellectual property rights and similarly for any third party owned pre- | Acceptable                                                                                                                                                                    |

## **ANNEXURE-I**

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|       |     |                                    | existing intellectual property rights will be exclusively owned by such third party/ies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |
| 220.0 | new | price escalation                   | The price as set forth in this Contract has been calculated based on the current prices for the component(s), part(s) and raw material(s) (the "Parts") required to manufacture the products. However, due to the volatility of the prices of the Parts, Seller may encounter significant and potentially unanticipated increases in Parts pricing. Seller agrees to employ its reasonable commercial efforts to maintain the Parts pricing used to determine the price of Products as set forth in this Contract]. However, in the event of an increase in Parts pricing, Seller shall notify Purchaser thereof, and Purchaser shall pay the relevant increased pricing. | Not acceptable                                                          |
| 221.0 | GCC | 39: Change in Law                  | The Parties agree that in the event of any change in laws, regulations or increases in tariffs or duty rates imposed, implemented or enacted after the date of this Contract/Purchase Order or change in interpretation of any laws, regulation, tariffs or duty rates affecting the cost of the goods and services set forth herein and/or the time of performance or delivery of the same, Seller/ABB shall be entitled to an adjustment in the contract price reflecting the change in the laws, tariffs or duty rates or other costs and any necessary adjustment to the time of performance or delivery of the goods and services                                    | Refer to clause no. 39.1 of GCC                                         |
| 222.0 | GCC | 44.1& 45: termination consequences | ABB shall be entitled to claim payments from Purchaser for all supplies and/or services completed including work in progress till the date of any termination /expiry /cancel /suspension of this Contract.ABB shall be entitled to claim applicable interest rate from Purchaser for any delayed payments to ABB                                                                                                                                                                                                                                                                                                                                                         | Tender clauses shall remain unchanged. Bidder to be guided accordingly. |

## **ANNEXURE-I**

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|       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                            | under this Contract. Purchaser will provide sixty (60) days prior written notice to ABB for any termination/suspension/cancellation of this Contract. ABB is entitled to terminate this Contract for any material breach by the Purchaser and ABB shall claim full costs compensation from the Purchaser to the extent of performance completed and work in progress status under this Contract.                                                                                                                                                                                                                                                             |                                                                              |
| 223.0 | 3.0 TECHNICAL EVALUATION CRITERIA: 3.1.2 | Bidder must have experience of successfully completing at least one work of Supply, Installation, Testing and Commissioning of 33KV and 11 KV switchgear / switchboard in customized prefabricated modular outdoor container facility (E-House) in previous last 07 (Seven) years reckoned from the original bid closing date in Central/State Government/ PSUs/Nationalized Banks/Public Limited Company. | ABB has extensive experience in the design,engineering, supply, erection, installation, and commissioning of upto 33 kV switchgear systems housed in prefabricated modular containerized facilities (E-Houses). ABB has successfully executed numerous E-House based switchgear projects covering a wide voltage range, from 415 V and 6.6 kV up to 33 kV. Considering ABB's proven track record and expertise in delivering E-House integrated switchgear solutions across various voltage levels up to as high as 33kVA, we respectfully request Oil India Limited (OIL) to accept our credentials and consider ABB as a qualified bidder for this tender. | Shall be discussed internally and any change will be notified by corrigendum |
| 224.0 | General:                                 | Project completion Schedule                                                                                                                                                                                                                                                                                                                                                                                | Due to the current high demand in the market and associated challenges in procurement and supply of critical equipment, and monsoon season .we kindly request you to consider revising the project completion period from 12 months to 15 months from the date of commencement of the contract.                                                                                                                                                                                                                                                                                                                                                              | No deviation accepted                                                        |
| 225.0 | ITB 7.2 Page 13 OF 30                    | Price variation: Prices quoted by the successful bidder must remain firm during performance of the Contract and must not be subject to variation on any                                                                                                                                                                                                                                                    | Considering the current volatility in the prices of raw materials, copper, electrical steel (CRGO), and other critical components, kindly accept price variation As per IEEMA for Power and LT Transformer and Cables.                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not acceptable                                                               |

## **ANNEXURE-I**

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|       |                            | account, except as otherwise mentioned in the bid document. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 226.0 | ITB Clause 9.2(e): General | Bid Security/EMD Validity                                   | Whether submission of e-BG alone is sufficient or hard copy submission is also required in case of e-BG issued through SFMS kindly confirm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Acceptable. Submission of a valid e-Bank Guarantee (e-BG) through NeSL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 227.0 | General                    | Approvals                                                   | We understand all statutory approvals, CEIG approval, electrical inspectorate approvals, State utility approvals, PTCC clearance, and synchronization approvals shall be under OIL scope kindly confirm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Agreed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 228.0 | General                    | Civil Scope                                                 | <p>The present tender stipulates that only OEMs of AIS, GIS and E-House are eligible to participate. We respectfully submit that while OEMs possess the requisite expertise for design, engineering, manufacturing, testing and commissioning of E-House, GIS and AIS systems, the tender scope also comprises substantial civil and site infrastructure works, including but not limited to foundations, earth filling, drainage systems, fire walls and other associated civil activities.</p> <p>Considering the multidisciplinary nature of the project, execution through an EPC model is a widely adopted industry practice wherein the OEM remains responsible for the complete electrical/package scope while an experienced EPC contractor executes the associated civil and construction works under the overall responsibility of the bidder.</p> <p>Further, we understand that in OIL's recent tender CDI2307P27 (E-House for OCS-2), EPC contractors/partners were permitted to front-end the bid and participate in the tendering process. Request please align BEC/PQC Criterial for IFB No. CDI2513P27 as per IFB No</p> | <p>The project involves substantial OEM-intensive activities, including manufacturing of the 33 kV, 11 kV systems and their integration in the pre-fabricated E-House, synchronisation with the existing system, system architecture for Substation Automation, Energy Management System and Asset Monitoring System, communication and protocol compatibility, factory testing and commissioning. These activities require direct involvement of the OEM's engineering and technical resources. Direct OEM involvement is essential to ensure clear technical ownership and accountability for interface management, system integration, communication, configuration, testing and commissioning,</p> |

## **ANNEXURE-I**

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|  |  |  | <p>CDI2307P27</p> <p><b>Accordingly, we request OIL to kindly consider and accept the following:</b></p> <p>A qualified EPC Contractor supported by AIS/GIS/E-House OEM(s) shall be considered acceptable, provided that:</p> <p>The OEM furnishes necessary authorization and assumes responsibility for the design, manufacture, testing, installation support and performance of the AIS/GIS/E-House. The bidder accepts single-point responsibility for successful completion of the entire project on LSTK/EPC basis.</p> <p>Allowing such EPC participation would enable wider competition, bring together specialized expertise for both electrical and civil disciplines, mitigate project execution risks and ensure successful and timely completion of the project while fully protecting OIL's interests through single-point accountability.</p> <p>We therefore request OIL to kindly incorporate suitable provisions/clarification to enable us proceed further.</p> | <p>thereby minimising interface gaps and avoiding transfer of responsibility among different agencies.</p> <p>The tender also provides for subcontracting of eligible site activities, enabling the OEM(bidder) to engage competent and experienced agencies for civil, construction and other permissible site works, while retaining overall technical responsibility and accountability for the integrated system.</p> <p>It is further clarified that the OEM requirement is not restricted to any particular make or manufacturer. All eligible OEMs meeting the specified technical requirements are permitted to participate. The objective is to ensure wider participation while maintaining the required level of technical integration, quality and accountability.</p> <p>The prospective bidder's reference to another tender is noted. However, eligibility criteria are determined based on the specific scope, technical requirements of each project and cannot be adopted automatically from another tender having different requirements.</p> |
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## **ANNEXURE-I**

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|       |         |  |                                                                                                                                       | Accordingly, the existing eligibility criteria under the PQC/BEC shall remain unchanged.                                                                                                                                                                                                                                                                                                               |
| 229.0 | General |  | Please provide finished ground level (FGL), flood level, and contour survey drawings. However Civil works are not under bidder scope. | Related Civil job is under bidder's scope. No deviation accepted. Civil works are under bidder scope. The bidder shall undertake necessary site survey/ topographical assessment and establish the design formation level in accordance with site conditions, available soil investigation data and approved layout/design. Any OIL-provided drawings/data, where available, may be used as reference. |
| 230.0 | General |  | Please confirm availability of construction water source and construction access roads inside plant premises.                         | A) Construction water source is available at site.<br>B) Existing ring road is available inside the premise of Moran Power Station which also connects the project site.                                                                                                                                                                                                                               |
| 231.0 | General |  | SEIL Submit drawing to OIL further approve with State utility are not under SEIL scope                                                | OIL confirms Approval for commencement of supply to be obtained from CEA.                                                                                                                                                                                                                                                                                                                              |
| 232.0 | General |  | Please confirm the exact point of interconnection and cable route corridor from State utility substation to Moran Power Station.      | The point of interconnection with the state utility will be near boundary wall of Moran power Station. Estimated cable length will be mentioned in the corrigendum against HT-cable specification (Specification A13.1)                                                                                                                                                                                |

## **ANNEXURE-I**

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| 233.0 | General                       |                                                                                                                                                       | We understand grid synchronization permissions from SLDC/State utility shall be arranged by OIL.                                                                                                                       | Agreed                                                                                                                                                                                                                                                                                                                        |
| 234.0 | General                       |                                                                                                                                                       | Kindly confirm whether transformer type tests conducted on higher ratings of identical design shall be acceptable.                                                                                                     | Agreed. Declaration shall be submitted by the bidder that offered transformer has the same/similar design as the type test.                                                                                                                                                                                                   |
| 235.0 | SOW: Clause no.1 A 102 OF 271 | Bidder shall study the existing synchronization scheme operating in Moran Power Station between Gas Engine Generator and Gas Turbine Generator (GTG). | Any work related to modification, interfacing, integration, synchronization, customization, system study, coordination, or configuration changes of the existing system is expressly excluded from the Bidder's scope. | The scope of work under the bidder has been described in the Tender. No deviation is acceptable.                                                                                                                                                                                                                              |
| 236.0 | SOW                           | Cable Connection                                                                                                                                      | We understand 33kv cable from E-house to power transformer and Transformer LV side to 11KV panel connection with 11KV cable in bidder scope. Any outgoing cable are not under bidder scope kindly confirm.             | Shifting of the outgoing cables including cable laying, termination at both end is under the scope of bidder as mentioned in the tender. Corrigendum will be issued against HT-cable specification (Specification A13.1) in this regard                                                                                       |
| 237.0 | SOW                           |                                                                                                                                                       | We understand Factory training is not under SEIL scope kindly confirm                                                                                                                                                  | Agreed. Training at site is required only.                                                                                                                                                                                                                                                                                    |
| 238.0 | SOW                           |                                                                                                                                                       | Kindly provide rating of capacitor bank.                                                                                                                                                                               | As the project is under LSTK basis, bidder is entrusted with the design of APFC panel including the capacitor bank size. Necessary information has already been furnished in the tender. Further, the hourly load profile including KW and pf for the last two years will be shared vide corrigendum for better understanding |

## **ANNEXURE-I**

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| 239.0 | SOW Scope Matrix, Electrical Item 7, Page 419                     | The scope requires designing, developing and modifying the existing control scheme of the 3 MW GEG synchronisation panel with the help of OEM of GEG. This creates dependency on OEM availability, technical support, access to existing logic/drawings and OIL's operational shutdown. | Any work related to modification, interfacing, integration, synchronization, customization, system study, coordination, or configuration changes of the existing system is expressly excluded from the Bidder's scope.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Not acceptable                                                                                                                                                       |
| 240.0 | Electrical Item 11, Page 419; Relay Support Declaration, Page 423 | The scope includes support to OIL for relay coordination and uploading data in IEDs, and the relay support declaration requires support services for numerical relays for minimum 10 years from original bid closing date.                                                              | Any work related to modification, interfacing, integration, synchronization, customization, system study, coordination, or configuration changes of the existing system is expressly excluded from the Bidder's scope.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Not acceptable                                                                                                                                                       |
| 241.0 | SOW Scope Matrix, Electrical Item 23, Page 420                    | The scope includes removal of existing high mast as per bidder's design requirement and subsequent recommissioning after placement of E-House along with civil foundation.                                                                                                              | Any dismantling, relocation and recommissioning works are not in bidder scope.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Clause specifically stated that if high mast possess any hindrance as per the design of the bidder, in such case bidder to shift the highmast. No deviation accepted |
| 242.0 | Electrical Items 33 and 34, Page 421                              | The scope includes design and erection of 33 kV isolator on double pole and termination in adjacent APDCL 33 kV metering pole, including 33 kV cable laying and termination at both ends.                                                                                               | The Contractor's responsibility shall be limited to the execution of works falling within its scope and reasonable control. All approvals, utility coordination, outages, shutdowns, access arrangements, testing and commissioning support, energisation, metering interfaces, and acceptance requirements involving the State Utility and/or OIL shall be facilitated by OIL. Any schedule or cost impact attributable to delays in approvals, outage availability, shutdown constraints, grid readiness, interface changes, or other utility/OIL-dependent activities shall entitle the Contractor to a commensurate Extension of Time (EOT) and compensation for the resulting additional costs. | Not acceptable                                                                                                                                                       |

## **ANNEXURE-I**

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| 243.0 | SOW Scope Matrix, Electrical Items 37 and 38, Page 421                           | The scope requires minimum one month data storage facility and provision for enabling remote data communication.                                                                          | Any work related to modification, interfacing, integration, synchronization, customization, system study, coordination, or configuration changes of the existing system is expressly excluded from the Bidder's scope.                                                                                                                                                                                             | Not acceptable                                                                                                                                                                                   |
| 244.0 | SOW Scope Matrix, Electrical Items 5, 21 and 39, Pages 419 and 421               | The scope includes NIFPS, fire detection/protection system in E-House and fire-fighting equipment for E-House                                                                             | Fire protection design shall be limited to the specified equipment and approved design basis. Any additional fire-fighting infrastructure, statutory fire approval, fire water network, civil modification, integration with existing plant fire system or requirement from authorities/OIL beyond the agreed scope shall be treated as change order with cost and schedule impact.                                | NIFPS, Fire extinguisher, Fire detection system are required for the equipment to be supplied against the project only. No extension or integration with the existing Fire network is envisaged. |
| 245.0 | SOW Scope Matrix, Electrical Item 24, Page 420                                   | The scope requires design, testing and implementation of air-conditioning system in E-Houses.                                                                                             | HVAC performance shall be based on mutually approved heat load, equipment layout, ambient conditions, door opening philosophy and operating assumptions. Contractor shall not be liable for HVAC underperformance caused by additional equipment loading, improper operation, blocked filters, door opening, poor maintenance after handover, customer modifications or site conditions beyond design assumptions. | Agreed                                                                                                                                                                                           |
| 246.0 | SOW Scope Matrix, Associate Jobs, Page 421; Site Plan/photographs, Pages 413-418 | The scope includes survey for logistics and delivery, unloading, site movement and installation of E-House at site, with site plan and borehole location details included in the tender.  | Contractor's price and schedule shall be based on clear access route, availability of suitable unloading area, crane movement space, traffic permissions, site readiness and foundation readiness. Any road strengthening, obstruction removal, route modification, access restriction, permit delay, crane standby or additional handling due to site constraints shall be treated as extra scope/change order.   | Not acceptable. Transportation, Loading, Unloading related to project is under bidder's scope.                                                                                                   |
| 250.0 | Page 422; Civil General Note 10.1 and 10.11, Page 266                            | The scope includes site store and security, and civil notes require the contractor to arrange temporary office/stores/watch and ward, with loss/damage/theft responsibility on contractor | OIL shall provide suitable space for site store, laydown area and security access within the project premises. Contractor's responsibility for watch and ward shall be limited to Contractor's own materials/equipment stored in the designated area, and Contractor shall not be                                                                                                                                  | Watch and ward shall be under bidder's scope till handover. Space may be made available at Moran Power Station as stated in the tender; however, arranging temporary                             |

## **ANNEXURE-I**

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|       |                                                                     |                                                                                                                                                                                                                | liable for theft/loss caused by OIL security lapse, restricted access, third-party activity or force majeure.                                                                                                                                                                                                                                                                                                         | office/stores, fabrication yards and watch & ward of the contractor's facilities/materials shall remain as per tender Civil General Notes.                                                                                                                                                                                                                                                                           |
| 260.0 | SOW Scope Matrix, Associate Job Items 7 and 8, Page 422             | The scope includes on-site training for each component and operational philosophy, and software backup/license /measuring tool/laptop.                                                                         | Kindly provide number of sessions, participants and duration of site training. Software backup and licenses shall be limited to standard executable/configuration backup and OEM's standard license terms. Source code, unrestricted admin rights, development tools, perpetual upgrades, third-party software subscriptions and additional laptops/tools shall be excluded unless specifically agreed and priced.    | Training is required against critical items like 33 kV AIS, 11 kV AIS, UPS, Battery charger, APFC panel, Power Transformer, SAS, EMS, Synchronisation panel etc. Minimum training duration shall be 5 working days. Minimum no of participant expected is 20. Software back up and all necessary licenses/subscriptions shall be as per tender specification–No deviation is accepted from the tender specification. |
| 261.0 | Civil General Notes 10.9 and 10.10, Page 266                        | The tender states that dewatering during excavation shall be done by contractor without extra payment and that contractor must work during rainy season with required plan/equipment under contractor's scope. | Contractor shall consider normal seasonal working conditions only. Abnormal rainfall, flooding, waterlogging, high groundwater, stoppage due to unsafe working condition or OIL instruction shall qualify for EOT and cost compensation. Continuous dewatering, additional pumps, standby resources or special protection measures beyond normal construction practice shall be treated as reimbursable/change order. | Not acceptable. Normal dewatering during excavation and rainy-season arrangements are included in bidder scope as per Civil General Notes 10.9 and 10.10. Any genuinely unforeseen event beyond the tender's defined obligations, if established and instructed by OIL, shall be dealt with under the applicable contract provisions.                                                                                |
| 262.0 | Clause Ref.: Civil Scope, Interface and Coordination Clause 6.0 and | The SOW provides that any civil works arising due to interface requirements shall be deemed included, and unless specifically excluded, all civil works required                                               | The civil scope should be clearly defined and frozen based on approved drawings, BOQ, site survey, geotechnical data, agreed layout, civil interface matrix and mutually agreed exclusions. Any additional civil works arising                                                                                                                                                                                        | Civil scope has been clearly define in the tender and chang in scope is not envisaged. Not acceptable.Civil scope is under bidder responsibility and shall                                                                                                                                                                                                                                                           |

## **ANNEXURE-I**

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|       | Scope Completeness Clause 8.0, Pages 263-264; Scope Matrix Civil Jobs, Page 421 | for a complete, safe and operational 33/11 kV E-House substation shall be deemed included in the Contractor's scope. The scope matrix also includes site preparation, levelling, earth filling, design and construction of foundation, outdoor equipment foundation, oil pit, earth pit, cable trench and connecting drain. | due to OIL changes, APDCL requirements, existing facility constraints, interface modifications, additional safety/statutory requirements, drawing changes, unsuitable or unknown site conditions, underground obstructions, drainage issues, soil variations, or any requirement not specifically included in the agreed scope should be treated as a change order with corresponding time and cost adjustment. However Civil works are not under bidder scope. | be executed as per approved drawings, layout and applicable standards. Civil works arising from normal interface requirements are included. Any formally instructed deviation/change by OIL shall be processed in accordance with the tender's deviation/change provisions, with financial effect, if any, determined as per the contract.                           |
| 263.0 | Civil Quality Control and Documentation Clause 7.0, Page 263-264                | The tender requires QA plan, soil compaction tests, concrete cube tests, material verification and test certificates from government-approved laboratory at contractor's cost for reinforcement bars, RCC, structural steel and other materials as advised by Engineer-in-Charge.                                           | Contractor shall include standard quality tests as per approved QAP and applicable IS codes. Any additional tests, repeat tests not due to Contractor default, third-party inspections, special tests or tests beyond agreed QAP shall be treated as additional scope and reimbursed by OIL with corresponding schedule impact. However Civil works are not under bidder scope.                                                                                 | Required civil works will be in the scope of Bidder. No deviation accepted..Mandatory tests and certificates specified in the tender, including soil compaction, concrete cube and material tests, are in bidder scope. Tests required under applicable codes/specifications or advised by the Engineer-in-Charge for quality assurance shall also be complied with. |
| 264.0 | Modification Clause Ref.: SOW Scope Matrix, Civil Job Item 2, Page 421          | The scope includes modification of GEG wall for integration with E-House control room.                                                                                                                                                                                                                                      | Scope of any wall modification, dismantling, cutting, drilling, openings, repairs, restoration, or structural alteration in the existing GEG building shall be not under Bidder scope of work.                                                                                                                                                                                                                                                                  | Required civil works will be in the scope of Bidder. No deviation accepted. Modification of the existing GEG wall for integration with the E-house control room, as identified in the Scope Matrix, is within bidder scope. Execution shall be subject to approved drawings and structural/safety requirements.)                                                     |
| 265.0 | P326of511 (III)                                                                 | EHouse protection class                                                                                                                                                                                                                                                                                                     | Kindly confirm EHouse shall be of IP5X design                                                                                                                                                                                                                                                                                                                                                                                                                   | E-house shall be minimum IP54.The conformity test for the                                                                                                                                                                                                                                                                                                            |

## **ANNEXURE-I**

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|       |                          |                                                                                                                                                                  |                                                                                                                                               | IP on the integrated E-house assembly shall have to be carried out at manufacturer's workshop during pre-dispatch inspection.                                                            |
| 266.0 | P327of511(XI)            | EHouse specs: The floor framing shall be fabricated from ASTM A36 / JIS 3101 or equivalent steel members to form a rigid rectangular frame.                      | Shall be as per equivalent IS standards                                                                                                       | Confirmed.IS 2062 equivalent                                                                                                                                                             |
| 267.0 | P329of511(XXXV I)        | EHouse specs: The lighting system shall provide immediate emergency light (for at least 3 Hour)                                                                  | Is 3 hours of UPS battery backup is required as per this clause.Please confirm                                                                | Agreed                                                                                                                                                                                   |
| 268.0 | P114of511 Table (Pt. 24) | 33KV AIS GTP                                                                                                                                                     | Incomers and outgoing CT secondary shall be 5A as specified in 33KV AIS GTP. Please confirm                                                   | Agreed                                                                                                                                                                                   |
| 269.0 | P130of511                | 11KV AIS GTP                                                                                                                                                     | Incomers and outgoing CT secondary shall be 5A shall be considered. Please confirm.                                                           | Agreed                                                                                                                                                                                   |
| 270.0 | P135of511                | Power Transformer: Ambient shall be 40/45 deg C                                                                                                                  | Please confirm the ambient on which transformer oil & winding temperature rise to be considered because ambient temp is mentioned as 50 deg C | Ambient temperature to be considered as 40 degree for design. Accordingly temperature rise of oil and winding to be considered as per tender.                                            |
| 271.0 | P181of511 B (2)          | LT Panel Other Outgoing Feeders (Load-Based MCCB/MCB Selection                                                                                                   | Other outgoing feeders shall be as per SLD. However this is typical SLD. Kindly provide the LT panel outgoing feeders quantities              | All necessary details of the LT panel has been furnished in the tender. Bidder is requested to design the outgoing feeder quantities keeping minimum one(01) spares feeder of each type. |
| 272.0 | P185of511 V (2)          | LT Panel: Thermal-Magnetic Trip Unit: Offered MCCBs shall have Thermal-Magnetic Trip Unit for protection against Overload and Short-Circuit faults, respectively | All MCCB shall be with thermagnetic release                                                                                                   | Agreed                                                                                                                                                                                   |

## **ANNEXURE-I**

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| 273.0 | P196of511 | Substation Automation system | Any kind of data integration/HMI modification in 3 <sup>rd</sup> party SAS, remote control centre are excluded.                                                                                                                                                                                      | SAS shall be compliant to Sub Station level and the server should have provision of OPC UA for future integration to OIL's OT system.                                      |
| 274.0 | P196of511 | Substation Automation system | All the communication to SAS shall be with soft communication as per communication protocol                                                                                                                                                                                                          | Agreed.                                                                                                                                                                    |
| 275.0 | P217of511 | Reactor                      | Kindly confirm Copper wound or aluminium wound reactor, required                                                                                                                                                                                                                                     | Reactor shall be copper wound                                                                                                                                              |
| 276.0 | P217of511 | UPS System battery backup    | UPS battery backup duration shall be confirmed? As no backup duration specified in UPS TS.<br>However it is conflict with EHouse specs P329 CL XXXVI that immediate emergency light (for at least 3 Hour).                                                                                           | UPS back up duration shall be for minimum 3 hours with the capacity to cater to all loads of UPS                                                                           |
| 277.0 | P90of511  | Ambient shall be 36 deg C    | It is conflict in tender, at CL2.0 maximum ambient temperature is mentioned 36 deg C but in CL 9.0 (a) P104 of 511 it is mentioned 40 deg C and in CL 19.0 (h) P148 of 511 it is mentioned 45 degC. Please confirm the final max ambient temperature and also confirm the design ambient temperature | Ambient temperature to be considered for the design is 40 degree C                                                                                                         |
| 278.0 | General   |                              | As PDB (ACDB, SPDB, DCDB) details not mentioned in TS, kindly share the feeder details of the same.                                                                                                                                                                                                  | All necessary details of the LT panel has been furnished in the tender. Bidder is requested to design the outgoing feeder quantities keeping minimum one(01) spares feeder |
| 279.0 | General   |                              | OIL approved Make List shall be provided if any                                                                                                                                                                                                                                                      | Equipment / system shall be as per specification. Preferred list for oil type transformer Schneider, Raychem, VoltAmp, Bharat Bijulee, CG, Cahors, RTS etc.                |
| 280.0 | General   | Earthing                     | Earthing apart of Ehouses / outside of Ehouse shall not be in SE scope of supply. However provision to connection with external earthing                                                                                                                                                             | Agreed                                                                                                                                                                     |

## **ANNEXURE-I**

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|       |                                                      |                                                                                                                                 | network will be made available by SE kindly confirm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 281.0 | General                                              |                                                                                                                                 | Integration of customer supplied Free Issue Equipment, if any apart of battery limits shall not be in SE scope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Agreed                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 282.0 | General                                              |                                                                                                                                 | kindly provide BOQ with quantified items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The quantity of the major equipment of the project has already been indicated in the tender. It is further confirmed that the project is on LSTK basis as per the tender specification.                                                                                                                                                                                                                                         |
| 283.0 | SOW,<br>TECHNICAL<br>SPECIFICATION<br>NO - A01 & A02 | OEM (Original Equipment manufacturer) of both 33kV (or above) and 11kV (or above) voltage level of Air Insulated Switchgear/Gas | Kindly let us know "OEM (Original Equipment manufacturer) of both 33kV (or above) and 11kV (or above) voltage level" of Air Insulated Switchgear/ Gas<br><br>Insulated Switchgear" means OEM for Vacuum Interrupter, Circuit Breaker, Switchgear panel & the shall be of same make for 11KV & 33KV.                                                                                                                                                                                                                                                                                                                                                                                                                               | Agreed.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 284.0 | BEC/PQC, Page No 2 of 15(3.1.1 )                     | Insulated Switchgear.                                                                                                           | The present tender stipulates that only OEMs of AIS, GIS and E-House are eligible to participate. We respectfully submit that while OEMs possess the requisite expertise for design, engineering, manufacturing, testing and commissioning of E-House, GIS and AIS systems, the tender scope also comprises substantial civil and site infrastructure works, including but not limited to foundations, earth filling, drainage systems, fire walls and other associated civil activities.<br><br>Considering the multidisciplinary nature of the project, execution through an EPC model is a widely adopted industry practice wherein the OEM remains responsible for the complete electrical/package scope while an experienced | The project involves substantial OEM-intensive activities, including manufacturing of the 33 kV, 11 kV systems and their integration in the pre-fabricated E-House, synchronisation with the existing system, system architecture for Substation Automation, Energy Management System and Asset Monitoring System, communication and protocol compatibility, factory testing and commissioning. These activities require direct |

## **ANNEXURE-I**

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|  |  |  | <p>EPC contractor executes the associated civil and construction works under the overall responsibility of the bidder.</p> <p>Further, we understand that in OIL's recent tender CDI2307P27 (E-House for OCS-2), EPC contractors/partners were permitted to front-end the bid and participate in the tendering process. Request please align BEC/PQC Criterial for IFB No. CDI2513P27 as per IFB No CDI2307P27</p> <p>Accordingly, we request OIL to kindly consider and accept the following:<br/>A qualified EPC Contractor supported by AIS/GIS/E-House OEM(s) shall be considered acceptable, provided that:</p> <p>The OEM furnishes necessary authorization and assumes responsibility for the design, manufacture, testing, installation support and performance of the AIS/GIS/E-House.<br/>The bidder accepts single-point responsibility for successful completion of the entire project on LSTK/EPC basis.</p> <p>Allowing such EPC participation would enable wider competition, bring together specialized expertise for both electrical and civil disciplines, mitigate project execution risks and ensure successful and timely completion of the project while fully protecting OIL's interests through single-point accountability.</p> <p>We therefore request OIL to kindly incorporate suitable provisions/clarification to enable us proceed further.</p> | <p>involvement of the OEM's engineering and technical resources. Direct OEM involvement is essential to ensure clear technical ownership and accountability for interface management, system integration, communication, configuration, testing and commissioning, thereby minimising interface gaps and avoiding transfer of responsibility among different agencies.</p> <p>The tender also provides for subcontracting of eligible site activities, enabling the OEM(bidder) to engage competent and experienced agencies for civil, construction and other permissible site works, while retaining overall technical responsibility and accountability for the integrated system.</p> <p>It is further clarified that the OEM requirement is not restricted to any particular make or manufacturer. All eligible OEMs meeting the specified technical requirements are permitted to participate. The objective is to ensure wider participation while maintaining the required level of technical integration, quality and accountability.</p> |
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## **ANNEXURE-I**

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|       |                               |                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>The prospective bidder's reference to another tender is noted. However, eligibility criteria are determined based on the specific scope, technical requirements of each project and cannot be adopted automatically from another tender having different requirements.</p> <p>Accordingly, the existing OEM eligibility criteria under the PQC shall remain unchanged</p> |
| 285.0 | FORWARDING LETTER (xxii)      | Deadline for Bid Query - Within 19.08.2026.                                                                                                              | <p>As you will appreciate, that tender scope includes critical E-House requirement along with other accessories involving supply of critical equipments e.g. 33KV &amp; 11KV AIS, LT SWBD, SAS, APFC, Transformer etc. which requires sufficient time for going through the documents &amp; prepare pre-bid queries.</p> <p>We have already initiated preparation of pre-bid query points, which require more time to be completed; accordingly, we seek extension of Pre-bid Query Submission for equipments Due Date for at least 2 to 3 weeks to enable us to prepare the same &amp; submit.</p> | Please refer Corrigendum No. 1 (Extended till 25.08.2026)                                                                                                                                                                                                                                                                                                                    |
| 286.0 | ITB (9.2.d)                   | Submission of Bid Security/EMD in the form of Insurance Surety Bond                                                                                      | Please accept EMD in the form of Bank Guarantee as widely accepted across all Govt / Public Organizations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Please clause No. 9.0 of ITB                                                                                                                                                                                                                                                                                                                                                 |
| 287.0 | BEC/PQC: 3.1.2 (Page 2 of 15) | Bidder must have experience of successfully completing at least one work of Supply, Installation, Testing and Commissioning of 33KV and 11 KV switchgear | The Bidder must submit at least one End User Performance Certificate evidencing successful commissioning and satisfactory operation of the offered E-House facility for a minimum period of two (2) years without any major design, manufacturing, or performance-related                                                                                                                                                                                                                                                                                                                           | No change                                                                                                                                                                                                                                                                                                                                                                    |

## **ANNEXURE-I**

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|       |                                                                                                                     | / switchboard in customized prefabricated modular outdoor container facility (EHouse) in previous last 07 (Seven) years reckoned from the original bid closing date in Central/State Government/ PSUs/Nationalized Banks/Public Limited Company. | deficiencies attributable to the Bidder. The certificate shall be issued by the project owner/end user and shall indicate the commissioning date and satisfactory performance status of the facility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |
| 288.0 | GCC Limitation of Liability (Page 20 GCC Clause 16.0                                                                | Aggregate liability is capped at 100% of Contract Price, but exclusions apply for repair/replacement of defective equipment, IP indemnity, LDs and PBG forfeiture.                                                                               | Bidder requests that the aggregate liability of the Contractor under the Contract be capped at 100% of the Contract Price on an overall basis, inclusive of all liabilities, claims, damages, indemnities, liquidated damages, warranty obligations, and Performance Bank Guarantee forfeiture. No exclusions from the aggregate liability cap should apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No change. |
| 289.0 | GCC / SCC Export Control and Sanctions (GCC Page 32; SCC Pages 5 to 8GCC Clause 34.0; SCC GST Clauses 13.0 onwards) | Tender addresses Indian law, GST, customs and procurement restrictions, but does not contain SE standard export control clause or EC-CERAP mechanism.                                                                                            | The deliverables provided by Seller under this Contract contain or may contain components and/or technologies from the United States of America ("US"), the European Union ("EU") and/or other nations. Buyer acknowledges and agrees that the supply, assignment and/or usage of the products, software, services, information, other deliverables and/or the embedded technologies (hereinafter referred to as "Deliverables") under this Contract shall fully comply with related applicable US, EU and other national and international export control laws and/or regulations. Unless applicable export license/s has been obtained from the relevant authority and the Seller has approved, the Deliverables shall not (i) be exported and/or re-exported to any destination and party (may include but not limited to an individual, group and/or legal entity) restricted by the applicable export control laws and/or regulations; or (ii) be | No change. |

## **ANNEXURE-I**

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|  |  |  | <p>used for those purposes and fields restricted by the applicable export control laws and/or regulations. Buyer also agrees that the Deliverables will not be used either directly or indirectly in any rocket systems or unmanned air vehicles; nor be used in any nuclear weapons delivery systems; and will not be used in any design, development, production or use for any weapons which may include but not limited to chemical, biological or nuclear weapons. If any necessary or advisable licenses, authorizations or approvals are not obtained, whether arising from inaction by any relevant government authority or otherwise, or if any such licenses, authorizations or approvals are denied or revoked, or if the applicable export control laws and/or regulations would prohibit Seller from fulfilling any order, or would in Seller's judgment otherwise expose Seller to a risk of liability under the applicable export control laws and/or regulations if it fulfilled the order, Seller shall be excused from all obligations under such order and/or this Contract.</p> <p>"Use in Nuclear Environment</p> <p>The Customer expressly agrees not to use/qualify/install/ sell any equipment, products, and services provided by Schneider Electric in connection with any Basic Nuclear Installation as defined here after for functions contributing to nuclear safety without prior written approval of Schneider Electric.</p> <p>The Customer undertakes to remain fully compliant with any existing or future applicable nuclear regulations, in line with those issued by the International Atomic Energy Agency (IAEA) or any other domestic competent regulatory authority ( here after "Regulations").</p> |  |
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## **ANNEXURE-I**

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|       |                                                                                 |                                                                                                                                                                                                                                                         | <p>“Basic Nuclear Installation”, designates any nuclear power plants and reactors, facilities for the treatment or storage of radioactive waste; nuclear research laboratories; reactors intended for the production of medical radioisotopes; defence nuclear activities; and any other infrastructure/any other safety nuclear activities or activities related to the nuclear fuel cycle.</p> <p>Any use in violation of this clause may result in severe breach applicable Regulations as well as potential serious risks to people, property, or the environment.</p> <p>Consequently, Schneider Electric disclaims all liability for any damages including without limitation, direct damages, any loss of business, loss of data, financial loss, damage to reputation or any indirect, special, incidental or consequential damages resulting from non-compliant use under this clause or any consequences whatsoever resulting from potential sentences/sanctions by competent authorities.</p> <p>Schneider Electric reserves the right to refuse any warranty, support, or repair in such context and to notify the competent authorities as necessary.”</p> |                                                    |
| 290.0 | SCC Payment Terms / Cash Flow (Pages 1 and 15SCC Clause 7 and Payment Schedule) | Payment is milestone based: 5% basic engineering, 5% detailed engineering, 10% civil works, 40% material receipt, 15% erection, 5% cable laying, 10% testing & commissioning, 8% 48-hour operation and 2% handover. No 20% advance payment is provided. | <p>Kindly accept the following payment terms:</p> <p>i) 10% Advance submission along with ABG, PO acceptance and 10% along with basic engineering (GA+SLD) of capital equipment like 33KV AIS/11KV AIS/ 5 MVA Transformer &amp; e-House.</p> <p>ii) 70% Payment upon delivery of materials at site and certification of receipt by OIL.</p> <p>iii) Balance 10% Payment upon completion of erection/installation of the equipment.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No Change. Kindly be guided by the tender details. |

## **ANNEXURE-I**

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|       |                                                                                                                             |                                                                                                                                                                                                    | <p>In the event that erection/installation is delayed due to reasons not attributable to SEIL, and such delay extends beyond 90 days from the scheduled erection timeline, the pending balance payment shall be released upon the Contractor's request against suitable documentary evidence.</p> <p>Further, all payments shall be made through an irrevocable Letter of Credit (LC) Opened within 15 days of request from contractor, payable in accordance with the agreed payment milestones.</p> |                                                                                                                                                                                                                                                        |
| 291.0 | GCC Effective Date / Coming into Force (Page 6GCC Clause 4.1)                                                               | Contract becomes effective from LOA issuance and all terms come into force immediately without advance payment, payment security, site access or kick-off meeting as conditions precedent.         | Kindly accept the following Conditions Precedent: signed contract, receipt of advance/payment security, site access/data handover, and KOM/MoM. Schedule zero date should start from Notice to Proceed after conditions are fulfilled.                                                                                                                                                                                                                                                                | No change. Contract became effective from LOA issuance however commencement date of the contract will be the successful completion of Mobilisation as stated in Mobilisation period under "Forwarding Letter" clause 2.0 (ix).                         |
| 292.0 | SCC / GCCPayment Certification and Deemed Acceptance (SCC Pages 1 and 15; GCC Page 25SCC Payment Schedule; GCC Clause 27.0) | Invoices/payment milestones require OIL certification or jointly signed documents. No clear deemed certification if OIL delays approval or signing.                                                | Kindly provide approval/certification within 7 to 10 days from submission or inspection request. Minor punch list should not delay milestone payment, acceptance, DLP start or handover.                                                                                                                                                                                                                                                                                                              | OIL shall make its best endeavour to provide approval/certificate withing best possible time subjected to completion of activity as per the tender requirement. Handover will be guided by the clause in SOW Specification no A0, clause no 17.0 B ii) |
| 293.0 | GCC / SCCLiquidated Damages (GCC Page 28; SCC Page 3GCC                                                                     | LDs are 0.5% of contract value per week or part thereof, capped at 7.5% of contract value, for delay in mobilization/completion. LD base is full contract value and not expressly limited to delay | LDs are 0.5% of undelivered portion of contract value per week or part thereof, capped at 5% of undelivered portion of contract value, LDs to be sole and exclusive remedy in case of delay.                                                                                                                                                                                                                                                                                                          | No change                                                                                                                                                                                                                                              |

## **ANNEXURE-I**

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|       | Clause 30.0;<br>SCC Clause 7)                                                                                             | solely attributable to Contractor after EOT.                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| 294.0 | GCC / SCC Change Order / Scope Creep (GCC Pages 2, 6 and 42; SCC Page 14GCC Clauses 1.2.11, 3.2, 45.0/46.0; SCC SOR Note) | GCC includes extra/additional /altered/substituted works in scope and permits OIL to change program. SCC SOR note states any item/service required for successful completion is deemed included at no extra cost. | The Customer acknowledges that prices may be impacted by additional taxes, tariffs, levies, inflation in raw material costs, and unavailability of raw materials due to substantial tariffs imposed by the government of any country. If these tariffs continue to affect Schneider Electric's ability to perform the contract, it will be treated as a Change in Law. The parties will negotiate amendments to the contract terms, including delivery schedule revisions and price increases, in good faith. In case of delays due to these circumstances, Schneider Electric will not be liable for penalties or termination for fault. If the contract execution becomes disproportionately expensive, the parties will negotiate new price conditions in good faith. If they fail to reach an agreement within 30 days, either party can suspend or terminate the contract with 30 days' notice. Schneider Electric will receive full payment for all work performed, including costs of materials, goods, and services ordered for the contract. Schneider Electric will also be entitled to a termination fee of 10% of the contract price and other rights and remedies under the contract and law. | Not acceptable. |
| 295.0 | GCC Set-off / Withholding (Pages 29 to 31GCC Clauses 32.0 and 33.0)                                                       | OIL has broad set-off and withholding rights against amounts due under this or other contracts. No matching Contractor right to suspend for non-payment.                                                          | OIL has broad set-off and withholding rights against amounts due under this <del>or other</del> contracts with prior notice and supporting documents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No change       |
| 296.0 | GCC Indemnity and Liability (Pages 19 to                                                                                  | GCC includes broad mutual indemnities, including without-limit language and indemnity                                                                                                                             | Kindly clarify that all indemnity obligations shall be subject to the agreed aggregate liability cap under the Contract and shall be limited to direct losses and damages only. Indemnity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No change       |

## **ANNEXURE-I**

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|       | 21GCC Clauses 15.0 to 21.0)                                             | application without regard to fault/negligence.                                                                                                                                  | <p>liability shall be proportionate to the degree of fault, negligence, breach, or wilful misconduct of the indemnifying Party and shall not apply on a strict or no-fault basis.</p> <p>Further, indemnity obligations shall exclude indirect, incidental, special, punitive, exemplary, and consequential damages, including loss of profit, loss of production, loss of revenue, and loss of opportunity. No Party shall be liable under any indemnity provision to the extent that the loss or damage is caused by the acts, omissions, negligence, breach, or misconduct of OIL, its customers, other contractors, or any third party beyond the indemnifying Party's reasonable control.</p> |                                                                                                                                            |
| 297.0 | GCC Knock-for-Knock Liability (Pages 19 to 21GCC Clauses 15.0 to 21.0)  | GCC contains mutual knock-for-knock provisions for party property and personnel, but some provisions could conflict with broad indemnity and no-fault wording.                   | Contractor's exposure shall be limited to its personnel/property and third-party claims arising from the Contractor's negligence, wilful misconduct, or breach of Contract. Such liability shall be subject to the agreed aggregate liability cap, availability of insurance coverage, and exclusion of indirect and consequential damages.                                                                                                                                                                                                                                                                                                                                                        | GCC clauses remains unchanged                                                                                                              |
| 298.0 | SCC Warranty and Defect Liability (Page 3SCC Clause 9; GCC Clause 23.0) | Warranty/DLP is 12 months from successful completion, acceptance and formal handover. Contractor bears all repair/replacement and incidental costs for failures before handover. | <p>1) Kindly accept warranty/DLP as 18 months from the date of supply or 12 months from the date of installation and commissioning. As per below exclusions.</p> <p>Warranty is excluded for:</p> <ul style="list-style-type: none"> <li>• Normal wear and tear,</li> <li>• Defect due to specification or materials provided by the Employer,</li> <li>• Non-compliance with the operating manual or usage of the product beyond technical tolerance</li> <li>• Improper handling, loading, unloading, storage or maintenance by the Employer or by third parties not contracted by Contractor,</li> <li>• Defect due to repair/modification/service by</li> </ul>                                | Warranty and defect liability is for the entire project and not restricted to supply of materials only. No change to tender specification. |

## **ANNEXURE-I**

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|       |                                                                                                               |                                                                                                                                     | <p>the Employer or any third party without prior written of Contractor.</p> <p>2) If OIL uses the Plant/Equipment for beneficial, commercial, or operational purposes, or fails to issue acceptance/handover certification within 15 days of the Contractor's completion or acceptance request without identifying any material defects, the Plant/Equipment shall be deemed handed over and accepted. The Warranty/DLP shall commence from such deemed acceptance date, and all associated milestone payments shall become due and payable.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 299.0 | <p>SCC Testing, Commissioning, 48-hour Operation and Handover (Page 15Payment Schedule Milestones 7 to 9)</p> | <p>Testing/commissioning, 48-hour operation and handover payments depend on jointly signed documents with no deeming mechanism.</p> | <p>Kindly define clear acceptance criteria during 48 hours operations at site, clarity defining customer responsibilities. also inform the deadlines for customer activity which could delay site testing, commissioning, performance testing, and handover activities. OIL shall provide timely access, utilities, approvals, personnel, and participation necessary for completion of such activities.</p> <p>Acceptance shall be deemed to have occurred upon the earliest of: (i) successful completion of the contractual tests and performance criteria, (ii) beneficial or commercial use of the Plant/Equipment by OIL, or (iii) failure of OIL to issue written acceptance or identify material deficiencies within seven (7) to ten (10) days of the Contractor's request for acceptance.</p> <p>Minor punch list items that do not materially affect the safety, functionality, or performance of the Plant/Equipment shall not delay acceptance, handover, commencement of the Warranty/DLP period, certification of milestones, or release of payments. Such punch</p> | <p>a) The acceptance criteria of the project include successful synchronisation of 3 MW GEG and load transfer to grid power and continuous power distribution of Grid power by the new 33/11 kV substation to the entire electrical load of OIL, Moran for a continuous period of 48 hours from the date mutually agreed by both the parties as per the tender specification.</p> <p>b) All the punch point, if any shall be closed by the bidder before handing over of the plant.</p> |

## **ANNEXURE-I**

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|       |                                                                                                   |                                                                                                                                                                  | list items may be completed within a mutually agreed period after acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                         |
| 300.0 | GCC Termination for Convenience (Page 56GCC Clause 44.9)                                          | OIL may terminate for any other reason on 30 days written notice and is liable only for payment for services up to termination date.                             | Kindly provide that, in the event of termination for convenience or any termination not arising from Contractor default, OIL shall compensate the Contractor for all work performed up to the termination date, work performed, WIP (Work in Progress), manufactured/ordered materials, vendor cancellation charges, demobilization, storage, BG release, unavoidable costs and reasonable profit/termination fee.                                                                                                                                                                                                                                                                                                                                                                           | No change.                                                                                              |
| 301.0 | GCC Performance Security / Guarantees (Pages 9 to 11; SCC Page 1GCC Clause 10.0; SCC Clause 3)    | SCC requires 10% performance security valid for 15 months beyond contract period. GCC allows encashment on failure/non-performance without proof of loss/damage. | <p>The Bank Guarantee (BG) shall be submitted in the mutually agreed format. Kindly provide for a fixed expiry date and progressive reduction/release of the BG in line with achievement of contractual milestones, completion of supplies, acceptance, and expiry of warranty obligations. Any claim, invocation, or encashment of the BG shall be limited to substantiated, due, and undisputed amounts arising from the Contractor's proven default and shall be subject to prior written notice and a reasonable cure period. No BG invocation shall be permitted for disputed, contingent, or unliquidated claims.</p> <p>Further, any amount recovered through BG invocation shall form part of, and not be in addition to, the agreed aggregate liability cap under the Contract.</p> | No change                                                                                               |
| 302.0 | GCC Storage / Site Delay (Pages 50 to 51)No clear matching GCC storage clause identified; related | No clear storage fee, risk transfer or invoicing mechanism if materials cannot be delivered/installed due to OIL site readiness or other customer-caused delay.  | Kindly provide a storage provision allowing a maximum of thirty (30) to sixty (60) days of free storage from the date of readiness for dispatch. Thereafter, OIL shall reimburse all reasonable storage, preservation, handling, insurance, and associated costs. Upon issuance of a Storage Certificate, risk of loss or damage to the                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No Change. Project is LSTK basis so it is the bidder's responsibility till handover the project to OIL. |

## **ANNEXURE-I**

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|       | delivery/site delay provisions)                                                     |                                                                                                                                                                              | <p>materials/equipment shall transfer to OIL, and the Contractor shall be entitled to invoice the applicable milestone notwithstanding any delay in delivery, installation, or commissioning attributable to OIL.</p> <p>Insurance during the extended storage period shall be arranged by OIL or reimbursed to the Contractor at actual cost. In the event storage charges remain unpaid beyond the agreed payment period, the Contractor shall have the right, upon prior written notice, to suspend performance and, in case of continued non-payment, terminate the affected portion of the Contract without liability, while remaining entitled to payment for completed work, storage charges, and all associated costs.</p>                                                                                                                                                                                                                                                                      |                 |
| 303.0 | GCC Extension of Time (Page 28 to 29GCC Clause 31.0; missing broader EOT mechanism) | Force majeure provides time extension, but no broad EOT for customer delay, delayed approvals, site access, third-party interface delays, change orders or delayed payments. | <p>If performance under this Agreement is delayed as a result of continuation of the Event of Force Majeure, the time allowed to comply with such obligation shall be extended for as long as the relevant event of Force Majeure causing such delay or suspension continues. If the Event of Force Majeure continues for a period of (3) three months, then either Party may suspend the Contract by providing notice to the other Party and both the Parties shall mutually discuss and agree for the suitable next steps to be taken up. For such time, the suspension is in force, the Buyer shall provide the equitable extension to the Seller. In case Parties to the Contract decides to terminate the Contract, Parties to the Contract to settle their account with each other without any damages or cost. The Seller shall be entitled for the entire cost of work done. The consequences of termination under this Clause would be similar to termination at convenience of the Buyer.</p> | Not acceptable. |

## ANNEXURE-I

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|       |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Any cost change due to delay in entitlement of customer dependencies, late approvals, site access, interface delays, third-party contractors, delayed payments, changes and other events beyond Contractor control shall be suitably compensated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| 304.0 | GCC RISK PURCHASE<br>(Page 22 of 44GCC Clause 19 | In the event, CONTRACTOR's failure to provide the services as per the Contractual scope, terms and conditions, COMPANY (OIL) reserves the right to hire the services from any other source at the CONTRACTOR's risk & cost and the difference in cost shall be borne by the CONTRACTOR. Further, OIL shall retain the right of forfeiture of Performance Bank Guarantee and any other action as deemed fit. In certain operational situations OIL reserves the right to take over the site including the service equipment at the risk and cost of the CONTRACTOR | <p>Suggest deletion of this clause. In case customer doesn't agree then propose as per below,</p> <p>In the event~~,~~ of a material CONTRACTOR's failure to provide the services as per the Contractual scope, terms and conditions, COMPANY (OIL) <del>reserves the right</del> shall, after providing a written notice specifying the default and allowing a cure period of fifteen (15) days, have the right to hire the services from any other source at the CONTRACTOR's risk &amp; cost and the difference in cost shall be borne by the CONTRACTOR. However, such liability shall be limited to the reasonable, demonstrable and direct additional costs incurred by COMPANY and shall be subject to the limitation of liability provisions of the Contract.</p> <p>Further, OIL shall retain the right of <del>forfeiture of Performance Bank Guarantee and any other action as deemed fit</del> encashment of the Performance Bank Guarantee only to the extent of proven losses arising from the CONTRACTOR's uncured material breach. COMPANY shall not be entitled to recover the same loss more than once through multiple contractual remedies.</p> <p>In certain operational situations OIL reserves the right to take over the site including the service equipment at the risk and cost of the CONTRACTOR~~.~~ provided that such right shall be exercised only in emergency situations</p> | No Change |

## ANNEXURE-I

|       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |
|-------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | involving safety, environmental protection, or continuity of critical operations, and only for the minimum period necessary to address such emergency. Any such action shall not result in transfer of ownership of the CONTRACTOR's equipment and shall be undertaken in accordance with applicable laws and contractual provisions.                                                                                                                                                                                                                         |           |
| 305.0 | GCC (16 (a)) | Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the CONTRACTOR in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 100% of the Contract Price (if not specified otherwise in SCC), provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the CONTRACTOR, or to any obligation of the CONTRACTOR to indemnify the COMPANY with respect to Intellectual Property Rights | Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the CONTRACTOR in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 100% of the Contract Price (if not specified otherwise in SCC), provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the CONTRACTOR during the warranty period, or to any obligation of the CONTRACTOR to indemnify the COMPANY with respect to Intellectual Property Rights | No Change |
| 306.0 | GCC (16 (b)) | Notwithstanding any other provisions herein to the contrary, except only in cases of Wilful misconduct and/or criminal acts and/or criminal negligence, neither the CONTRACTOR nor the COMPANY (OIL) shall be liable to the other, whether in Contract, tort, or                                                                                                                                                                                                                                                                   | Notwithstanding any other provisions herein to the contrary, except only in cases of Willful misconduct and/or criminal acts and/or criminal negligence, neither the CONTRACTOR nor the COMPANY (OIL) shall be liable to the other, whether in Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, <del>provided however</del>                                                                                                                                         | No Change |

## ANNEXURE-I

|       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
|-------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|       |            | otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided however that this exclusion shall not apply to any obligation of the CONTRACTOR to pay Liquidated Damages to the COMPANY and/or right to forfeit the Performance Bank Guarantee(s) in terms of the contract                                                                                                                                                                                             | <del>that this exclusion shall not apply to any obligation of the CONTRACTOR to pay Liquidated Damages to the COMPANY and/or right to forfeit the Performance Bank Guarantee(s) in terms of the contract</del>                                                                                                                                                                                                                                                                                                                                                            |           |
| 307.0 | GCC (15.1) | Except as otherwise expressly provided herein, neither COMPANY nor its servants, agents, nominees, CONTRACTORS, or sub-CONTRACTORS shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss of or damage to the property of the CONTRACTOR and/or their CONTRACTORS or sub-CONTRACTORS, irrespective of how such loss or damage is caused and even if caused by the negligence of COMPANY and/or its servants, agent, nominees, assignees, CONTRACTORS and sub-CONTRACTORS | Except as otherwise expressly provided herein, neither COMPANY nor its servants, agents, nominees, CONTRACTORS, or sub-CONTRACTORS shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss of or damage to the property of the CONTRACTOR and/or their CONTRACTORS or sub-CONTRACTORS, <del>irrespective of how such loss or damage is caused and even if</del> subject to the extent caused by the negligence of COMPANY and/or its servants, agent, nominees, assignees, CONTRACTORS and sub-CONTRACTORS | No Change |
| 308.0 | GCC (15.2) | The CONTRACTOR shall protect, defend, indemnify and hold harmless COMPANY from and                                                                                                                                                                                                                                                                                                                                                                                                                                                       | The CONTRACTOR shall protect, defend, indemnify and hold harmless COMPANY from and against such loss or damage and any suit,                                                                                                                                                                                                                                                                                                                                                                                                                                              | No Change |

## ANNEXURE-I

|       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
|-------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|       |          | <p>against such loss or damage and any suit, claim or expense resulting there from. Neither COMPANY nor its servants, agents, nominees, assignees, CONTRACTORS, sub-CONTRACTORS shall have any liability or responsibility whatsoever for injury to, illness, or death of any employee of the CONTRACTOR and/or of its CONTRACTORS or sub-CONTRACTOR irrespective of how such injury, illness or death is caused and even if caused by the negligence of COMPANY and/or its servants, agents nominees, assignees, CONTRACTORS and sub-CONTRACTORS. CONTRACTOR shall protect, defend, indemnify and hold harmless COMPANY from and against such liabilities and any suit, claim or expense resulting there from.</p> | <p>claim or expense resulting there from. Neither COMPANY nor its servants, agents, nominees, assignees, CONTRACTORS, sub-CONTRACTORS shall have any liability or responsibility whatsoever for injury to, illness, or death of any employee of the CONTRACTOR and/or of its CONTRACTORS or sub-CONTRACTOR <del>irrespective of how such injury, illness or death is caused and even</del> if caused by the negligence of COMPANY and/or its servants, agents nominees, assignees, CONTRACTORS and sub-CONTRACTORS. CONTRACTOR shall protect, defend, indemnify and hold harmless COMPANY from and against such liabilities and any suit, claim or expense resulting there from.</p> |           |
| 309.0 | GCC (26) | <p>CONFIDENTIALITY, USE OF CONTRACT DOCUMENTS AND INFORMATION:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Please add below:<br/>Any drawings, designs, technical documents, know-how and confidential information whether patented or not, submitted or furnished to the other Party prior or after the effective date of the Contract, shall remain the exclusive property of respective Party. The Seller shall grant to the Buyer the non-exclusive, nontransferable and terminable on default right to use the software or IPR supplied, on the relevant site only. The grant of this right doesn't transfer any property or license rights on the software, which remains in</p>                                                                                                       | No Change |

## **ANNEXURE-I**

|       |            |                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |                                                                                                                                                            |
|-------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |            |                                                                                                                                                                                                                                                                                                  | any case the property of the Seller or its sub-contractor                                                                                     |                                                                                                                                                            |
| 310.0 | GCC (42.2) | Arbitration -"Sole Arbitrator from the panel of List maintained by OIL"                                                                                                                                                                                                                          | Arbitration -"Sole Arbitrator to be appointed with mutual agreement between the Parties <del>from the panel of List maintained by OIL</del> " | No Change                                                                                                                                                  |
| 311.0 | GCC        |                                                                                                                                                                                                                                                                                                  | Include additional clauses on EC, SE S&T Rights, Supply disruption due to ongoing war clause, Storage costs and Price variation               | No Change                                                                                                                                                  |
| 312.0 | 5.f        | GRID SYNCHRONIZATION CONTROL: The scope of this tender requires the bidder to design, develop and implement a synchronization scheme between the existing 3 MW Gas Engine Generator (GEG) and Grid of state utility (AEGCL) at 11 kV as pe the guidelines of Indian Electricity Grid Code (IEGC) | We as a E House and switchboard OEM will not be responsible of execution of this work. Request you, kindly exclude this from tender           | Synchronisation is a critical component of the Project. Accordingly, no deviation is accepted                                                              |
| 313.0 | 5.m        | One set of 33KV and 11 KV Grade Cable (HT) and one set of LT cable as per Specification No. A13.1 and A13.2.                                                                                                                                                                                     | Cables inside E House shall be in our scope. Request OIL to exclude balance cables from tender.                                               | No deviation is accepted                                                                                                                                   |
| 314.0 | 5.p        | Roof top Solar Plant as per Specification No. A16: Roof Top Solar Plant at EHouse.                                                                                                                                                                                                               | We as a E House and switchboard OEM will not be responsible of execution of this work. Request you, kindly exclude this from tender           | No deviation is accepted                                                                                                                                   |
| 315.0 | 5.r        | Illumination System as per Specification No. A18:                                                                                                                                                                                                                                                | Noted for within E-House and periphery E-House lighting. Other area / room lighting shall be in EPC scope.                                    | It is clarified that the illumination includes the illumination of outdoor units like power transformer, NGR etc along with E House. No deviation accepted |
| 316.0 | 5.w        | Lightning Arrestor and Surge Counter at Incoming grid source as per Specification No. A23                                                                                                                                                                                                        | We as a E House and switchboard OEM will not be responsible of execution of this work. Request you, kindly exclude this from tender           | No deviation is accepted                                                                                                                                   |
| 317.0 | 8          | Site Development/Area preparation:                                                                                                                                                                                                                                                               | Same to be excluded from our scope                                                                                                            | No deviation is accepted.                                                                                                                                  |
| 318.0 | 9          | Supply of Water, Electricity and Illumination during site activities:                                                                                                                                                                                                                            | Same to be excluded from our scope                                                                                                            | No deviation is accepted                                                                                                                                   |

### **ANNEXURE-I**

|       |       |                                                             |                                                                                              |                          |
|-------|-------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------|
| 319.0 | 11    | Site Job                                                    | Site Job related installation of E House shall be in our scope. Balance scope to be excluded | No deviation is accepted |
| 320.0 | 12    | Safety Precaution at Site:                                  | Same to be excluded from our scope                                                           | No deviation is accepted |
| 321.0 | 13    | Project Schedule and project status reporting:              | Same to be excluded from our scope                                                           | No deviation is accepted |
| 322.0 | A03.1 | NITROGEN INJECTION FIRE PREVENTION AND EXTINGUISHING SYSTEM | Same to be excluded from our scope                                                           | No deviation is accepted |