

AMENDMENT NO. 4 DATED 07.03.2024 TO TENDER NO. CIC5544P24 FOR “FEASIBILITY STUDY OF CO2 TRANSPORTATION AND STORAGE IN SALINE AQUIFERS/ RESERVOIRS OF JAISALMER BASIN, RA-JASTHAN”

This amendment is issued to notify the following changes:

1. Extension of dates:

Last Date of Bid Submission extended up to **22.03.2024** (11:00 Hrs IST)

Last Date of Bid Opening extended up to **22.03.2024** (14:00 Hrs IST)

2. Pre-Bid Minutes:Pre-Bid Minutes is uploaded vide **Annexure-IV**

3. OIL’s reply to the Pre-Bid queries is attached vide **Annexure-IB**

4. Amendment of the tender clauses are as under:

| Clause no. | Existing Clause | Amended Clause |
|---------------------------|--|---|
| 4.0 | The bidders must confirm their compliance in their ‘technical’ bid to complete the mobilization within 02 (two) weeks from the date of issue of Letter of award (LOA). Offers without confirmation of stipulated mobilization time or with mobilization time more than 02 (two) weeks will be summarily rejected. The bidder shall confirm compliance of this in their technical bid. | The bidders must confirm their compliance in their ‘technical’ bid to complete the mobilization within 03 (three) weeks from the date of issue of Letter of award (LOA). Offers without confirmation of stipulated mobilization time or with mobilization time more than 03 (three) weeks will be summarily rejected. The bidder shall confirm compliance of this in their technical bid. |
| 6.6 | Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. | Successful bidder will be required to furnish a Performance Bank Guarantee @05% of the total contract Value. |
| New Clause: Clause no. | Conflicting activities: a firm that has been engaged by the client to provide goods, works, or non-consultancy services for a project, or any of its affiliates, shall be disqualified from providing Consultancy service resulting from or directly related to those goods, works, or non Consultancy services. Conversely, a firm hired to provide consultancy services for the preparation or implementation of a project, or any of it affiliates, shall be disqualified from subsequently providing goods or works or no consultancy services resulting from or directly related to the consultancy services for such preparation or implementation. Bidder must submit a declaration for the same in their technical bid. | |

| Clause No. | Present Clause | Amended Clause |
|--|---|---|
| 5.0 Scope of Work: Point No. 5.2 | OIL has selected 4 formations (Annexure-I) consisting of Saline aquifers/reservoirs in Tanot and Dandewala Field of Rajasthan for feasibility study to evaluate suitability for permanent Storage of CO2. The detailed evaluation of these saline aquifers/reservoirs/ formations in terms of seal and containment of CO2 plume, storing capacity and legacy well status shall be carried out for risk assessment and mitigation plan for the proposed CO2 Storage. | OIL has selected 5 formations (Annexure-I) consisting of Saline aquifers/reservoirs in Tanot and Dandewala Field of Rajasthan for feasibility study to evaluate suitability for permanent Storage of CO2. The detailed evaluation of these saline aquifers/reservoirs/ formations in terms of seal and containment of CO2 plume, storing capacity and legacy well status shall be carried out for risk assessment and mitigation plan for the proposed CO2 Storage. Annexure-I attached |
| 5.5 Phase-II A. Detailed Study through modelling Point xii | The approach to be followed for carrying out the reservoir simulation study (Black Oil or Compositional) to be finalized in agreement with OIL considering data availability and nature of the candidate reservoirs/aquifers. | Compositional Simulation approach to be followed in agreement with OIL considering data availability and nature of the candidate reservoirs/aquifers. |
| 6.0 Personnel to be deployed by the Service Provider: Point No. 6.6 | The names of the core team members along with their biodata/experience certificates/ profile (in attached format as Annexure-II) must accompany the bid/quote. The personnel fulfilling the experience criteria as mentioned in BEC and approved by OIL shall only be allowed for the Study. | The names of the core team members along with their biodata/experience certificates/ profile (in attached format as Annexure-XXX) must accompany the bid/quote. The personnel fulfilling the experience criteria as mentioned in BEC and approved by OIL shall only be allowed for the Study. |
| 7.0 Work Schedule Point 7.4 | The time schedule will be reckoned from the date of mobilization. The Consultant(s) must mobilize/reach Rajasthan office, Jodhpur/CoEES, Guwahati (based on requirement) within 2 weeks of issue of LoA for data collection. The kick-off meeting shall be organized within 2 weeks of mobilization after collection of all the available data. | The time schedule will be reckoned from the date of mobilization. The Consultant(s) must mobilize/reach Rajasthan office, Jodhpur/CoEES, Guwahati (based on requirement) within 3 weeks of issue of LoA for data collection. The kick-off meeting shall be organized within 2 weeks of mobilization after collection of all the available data. |
| 8.0 Workplace and association: Point No. 8.1 | The study is to be carried out at the Service Provider's work facility after the data collection phase is over. However, during Phase-II of Subsurface Feasibility phase of the project (Modelling & Assessment of two shortlisted saline aquifers/reservoirs), a team of expert must work at CoEES office, Guwahati for a minimum six (06) weeks' time duration as work association. During this work association, the team working at CoEES must comprise of at | The study is to be carried out at the Service Provider's work facility after the data collection phase is over. However, during Phase-II of Subsurface Feasibility phase of the project (Modelling & Assessment of two shortlisted saline aquifers/ reservoirs), a team of expert must work at CoEES office, Guwahati for a minimum six (06) weeks' time duration as work association. During this work association, the team working at CoEES must comprise of at least two (2) experts (as per Table-2 of clause 6.2.1 above) related to the particular work area (Static model, Geo- |

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| | <p>least two (2) experts (as per Table-2 of clause 6.2.1 above) related to the particular work area (Static model, Geo-mechanical model, Dynamic modelling etc.) as per the progress of the Phase in mutual agreement with OIL. The Service Provider(s) must agree to this condition and bid accordingly. During the study at CoEES, the Service Provider(s) may use OIL's facilities available at CoEES, Guwahati, state of Assam, India. However, the relevant/required software to carry out the mentioned work as per the scope must be arranged by the Service Provider. The details of OIL's facilities which shall be accessible for the Service Provider(s) at CoEES has been attached as Annexure-III of the NIT</p> | <p>mechanical model, Dynamic modelling etc.) as per the progress of the Phase in mutual agreement with OIL. The Service Provider(s) must agree to this condition and bid accordingly. During the study at CoEES, the Service Provider(s) may use OIL's facilities available at CoEES, Guwahati, state of Assam, India. However, the relevant/required software to carry out the mentioned work as per the scope must be arranged by the Service Provider. The details of OIL's facilities which shall be accessible for the Service Provider(s) at CoEES has been attached as Annexure-II of the NIT.</p> |
| <p>Point 5.5 of SoW</p> <p>Deliverable xvi of Point B</p> | <p>Final reservoir simulation models with all the relevant cases (mutually agreed between OIL and Service Provider(s)) to be handed over to OIL in a format compatible to load and run in PETREL G&G and either PETREL RE/ECLIPSE or CMG (IMEX)/CMG (GEM) available with OIL at no additional cost.</p> | <p>Final reservoir simulation models with all the relevant cases (mutually agreed between OIL and Service Provider(s)) to be handed over to OIL in a format compatible to load and run in PETREL G&G and CMG (GEM) available with OIL at no additional cost.</p> |
| <p>Mobilization (SCC)</p> | <p>The Consultant will mobilize their team within 02 weeks from the issue of LoA. The date of commencement of the Contract will be the date when the Consultant team will arrive at Jodhpur/Guwahati for data collection i.e., the effective date of the Contract.</p> | <p>The Consultant will mobilize their team within 03 weeks from the issue of LoA. The date of commencement of the Contract will be the date when the Consultant team will arrive at Jodhpur/Guwahati for data collection i.e., the effective date of the Contract.</p> |
| <p>Patent Indemnity (SCC)</p> | <p>“Contractor agrees to indemnify Company and pay any costs and damages finally awarded for claims based on an actual or alleged infringement of any parent, copyright or registered trademark granted or registered at the effective date of this Contract in the country of original delivery or intended destination of the Software and resulting from the use of the Software in accordance with its intended purpose as specified in technical specifications of the Software.</p> <p>However, Contractor will not be liable for Patent, copyright, registered trade mark or similar infringement that arises (i) Contractor's compliance with</p> | <p>Contractor agrees to indemnify Company and pay any costs and damages finally awarded for claims based on an actual or alleged infringement of any patent, copyright or registered trademark granted or registered at the effective date of this Contract in the country of provision of Services and resulting from the Service in accordance with its intended purpose as specified in technical specifications of the contract.</p> <p>However, Contractor will not be liable for Patent, copyright, registered trade mark or similar infringement that arises (i) Contractor's compliance with Company's specifications, where such specifications require Contractor to modify the service (ii) the combination of the Service with other products or services not furnished or</p> |

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| | <p>Company’s specifications, where such specifications require Contractor to modify a Software (ii) the combination of the Software with other software, products or services not furnished or approved in writing by Company (iii) any unauthorized addition to or modification of the Software (iv) any use of the Software in the performance of a method or process (practice of a process), except where such practice is solely completed by or within the Software (v) the combination of the Software with other software where, but for the combination, there would be no infringement.</p> <p>Company will defend and hold Contractor harmless against any expense, judgment or loss for alleged infringement of any patent, copyright or other proprietary right which results from a claim based upon (i), (ii), (iii), (iv) & (v).</p> | <p>approved in writing by Company (iii) any unauthorized addition to or modification of the Service (iv) any use of the Service in the performance of a method or process (practice of a process), except where such practice is solely completed by or within the Service (v) the combination of the Service with other services where, but for the combination, there would be no infringement.</p> <p>Company will defend and hold Contractor harmless against any expense, judgment or loss for alleged infringement of any patent, copyright or other proprietary right which results from a claim based upon (i), (ii), (iii), (iv) & (v).</p> |
| Data Liability (SCC) | <p>OIL shall at all times be responsible for the product(s) provided by OIL and for providing back up for all software applications and data files stored in the software. It is clearly understood that Contractor has no liability for loss, damage, or destruction to any Company data, except in the case of intentional misconduct, in which case Contractor's sole Liability is limited to reloading the data from the most recent database back-up. In no event shall Contractor ever be liable for reacquiring OIL's data.</p> | <p>OIL shall at all times be responsible for the data provided by OIL and for providing back up for all data files. It is clearly understood that Contractor has no liability for loss, damage, or destruction to any Company data, except in the case of intentional misconduct, in which case Contractor's sole Liability is limited to reloading the data from the most recent database back-up. In no event shall Contractor ever be liable for reacquiring OIL's data</p> |
| Interpretation Liability(SCC) | <p>All interpretations using the Software, and all recommendations or reservoir descriptions based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and</p> | <p>All interpretations and all recommendations or reservoir descriptions based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment. Company has full responsibility for all interpretations, recommendations and reservoir descriptions. Contractor cannot and does not warrant the accuracy, correctness or completeness of any</p> |

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| | <p>judgment. Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the software. Contractor cannot and does not warrant the accuracy, correctness or completeness of any interpretation, recommendation or reservoir description. Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for arty drilling, completion, well treatment, production or other financial decision, or any procedure involving any ask to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation.</p> | <p>interpretation, recommendation or reservoir description. Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis forarty drilling, completion, well treatment, production or other financial decision, or any procedure involving any ask to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation.</p> |
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5. Following Proforma / Annexure are attached:

| Reference Clause | Proforma / Annexure |
|--|---|
| <p>Notes to BEC Clause 2.1 above</p> <p>I. A. (ii) (a) AND I. B. (v) (a)</p> <p>Undertaking by the supporting company (sister subsidiary/ co subsidiary) to provide a performance security (as per format and instructions enclosed at PROFORMA-XVIII), equivalent to 50% of the value of the performance security, which is to be submitted by the bidding company, in case the supported bidding company is the successful bidder. PBG to be submitted by the supporting company is in addition to full PBG amount to be submitted by bidding company</p> | <p>Proforma XVIII attached below.</p> |
| <p>Clause 5.2 and Clause 8.1 of Scope of Work</p> | <p>Annexure I and Annexure II attached below.</p> |

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

Sd/-

(B Bharali)

CHIEF MANAGER MATERIALS (PL)
FOR GENERAL MANAGER – C&P(PL)
FOR CHIEF GENERAL MANAGER (PLS)

List of Formations Of Tanot Field

| Formation | Sand | Block | Wells | Cum. Prod. 31.03.2023 (MMSCM) | RF | |
|--------------------------|------------------------------|---------------|--|-------------------------------------|------------|-----------|
| GORU | UPPER GORU | A | <u>1D, 2D(A), 8, 9D</u> | 1.1 | 0% | |
| | | B | <u>3(ISL), 6D, 10, 11D</u> | 7.2 | 2% | |
| | | C | <u>7D</u> | 0.0 | 0% | |
| | | D | <u>12D</u> | 0.0 | 0% | |
| | TOTAL UPPER GORU SAND | | | | 8.3 | 1% |
| | LOWER GORU | A | <u>1(PB), 2(A), 8, 9(PB)</u> | 140.4 | 36% | |
| | | B | <u>3A, 6(PB), 10, 11(PB)</u> | 257.8 | 57% | |
| | | C | <u>7(PB)</u> | 0.3 | 0% | |
| D | | <u>12(PB)</u> | 0.0 | 0% | | |
| PARIWAR | | - | <u>1(PB), 2(A), 4(A), 5(A), 6(PB), 7(PB), 8(PB), 9(PB), 12(PB)</u> | NIL | NIL | |
| BAISAKHI-BEDESIR | | - | <u>3(PB)</u> | NIL | NIL | |
| LATHI | | - | <u>3(PB)</u> | NIL | NIL | |
| TOTAL TANOT FIELD | | | | 406.8 | 26% | |

List of Formations Of Dandewala Field

| Formation | Sand | Block | Wells | Cum. Prod. 31.03.2023 (MMSCM) | RF |
|------------------------------|-------------------|----------|--|-------------------------------------|------------|
| KHUIALA | Khuiala | A | <u>1E(A), 2, 3E, 4(A), 6/8(A), 7(A), 9(A), 13, 18, 19(A), 21, 27, 29, 30, 34, 35</u> | 633.9877 | 63% |
| | | B | <u>17 (WDW), 24, 31, 32</u> | 0.9610 | 1% |
| UPPER GORU | Upper Goru | A | <u>1D(A), 2(A), 3D(A), 4(A), 5(A), 6(A), 7(A), 11, 12/16, 14(A), 18/21, 22(A), 19(A), 20, 24, 25, 27, 28, 30, 31, 32, 34, 35, 36, 37</u> | 338.8832 | 28% |
| PARIWAR | Pariwar | A | <u>1 (A), 2 (A), 3(A), 4(A), 5 (A), 6(A), 7(A), 11, 12, 14(A), 15, 18/21, 19(A), 20, 22(A), 24, 25, 27, 28, 30, 31, 32, 34, 36, 37</u> | 3405.2220 | 56% |
| BAISAKHI-BEDESIR | | - | <u>1(A), 28 (PB)</u> | NIL | NIL |
| LATHI | | - | <u>1(A)</u> | NIL | NIL |
| TOTAL DANDEWALA FIELD | | | | 4304.1414 | 51% |

Details of OIL's facility that shall be made accessible to consultant:

| <u>Sl. No.</u> | <u>Infrastructure</u> | <u>Quantity/Users</u> |
|-----------------------|---|------------------------------|
| 1 | *Hyper-Converged Infrastructure (HCI) / Virtual Machine/ Workstation | 02 |
| 2 | Seating Space/Arrangement | 02 to 04 |
| 3 | Printing & Scanning facility (limited and excluding printing of monthly/quarterly/final reports) | 01 |
| 4 | Meeting Room/ Conference Room, depending on the availability | 01 |
| 5 | Video Conferencing System, depending on the availability | 01 |

1. * Hyper-Converged Infrastructure (HCI) / Virtual Machine/ Workstation: Details of the system are:
 - a. Windows 10 : 64 bit
 - b. RAM: 128 GB RAM (approx.)
 - c. 16 Core Processor, 1 Gig Speed Network Connectivity
 - d. NVIDIA 8 GB vGPU Profile
 - e. Internet not accessible
2. Consultants to bring additional Laptops if required for routine jobs/ report preparation, etc.

**FORM OF PERFORMANCE BANK GUARANTEE FOR ULTIMATE
PARENT/SUPPORTING COMPANY**

To

**M/s OIL INDIA LIMITED CONTRACTS
DEPARTMENT GUWAHATI, ASSAM,
INDIA, PIN-781171**

WHEREAS _____ (Name and address of Contractor) (hereinafter called "Contractor", which expression shall, unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assignees) had undertaken, in pursuance of Contract No. _____ to execute -----
- (Brief Description of the Work)(hereinafter called "the Contract").

Further, M/s _____(Name of the ultimate parent) having its registered/head office at _____ is the "Ultimate Parent" of "Supporting Company" M/s.....(Name of the supporting company with address)/M/s _____(Name of the Contractor with address, in case experience is taken from the ultimate parent) (hereinafter referred to as the 'SUPPORTING COMPANY'/'ULTIMATE PARENT", which expression shall, unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assignees). Based on the experience/technical strength of the "Supporting Company"/"Ultimate Parent" (whichever is applicable), the CONTRACTOR has qualified for award of contract and has agreed to provide complete technical and other support to the CONTRACTOR for successful completion of the contract as mentioned above, entered between OIL and the CONTRACTOR and OIL having agreed that the "ULTIMATE PARENT/SUPPORTING COMPANY", shall furnish to OIL a performance guarantee for Indian Rupees/US\$ towards providing complete technical and other support to the CONTRACTOR for successful completion of the contract as mentioned above,

AND WHEREAS we have agreed to give the "ULTIMATE PARENT/SUPPORTING COMPANY", such a Bank Guarantee; NOW THEREFORE we hereby affirm that we are Guarantors on behalf of the "ULTIMATE PARENT/SUPPORTING COMPANY", up to a total of (Amount of _____ (Guarantee in figures) _____ (in words _____), such amount being payable in the types and proportions of currencies in which the Contract price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of guarantee sum as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the Contractor/ULTIMATE PARENT/SUPPORTING COMPANY before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or the work to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way cease us from any liability under this guarantee, and we hereby waive notice of such change, addition or modification.

This guarantee is valid until the __day of . The details of the Issuing Bank and

Controlling Bank are as under:

A. Issuing Bank:

Tender No. ___ BANK FAX NO:
BANK EMAIL ID:
BANK TELEPHONE NO:
IFSC CODE OF THE BANK:

B. Controlling Office:

Address of the Controlling Office of the BG issuing Bank:
Name of the Contact Person at the Controlling Office with Mobile No. and e-mail address:

SIGNATURE AND SEAL OF THE GUARANTORS _____
Designation ___

Name of Bank _____ Address _____ Witness _____
Address _____

Date: __ Place: _____

Note:

The Bank Guarantee issuing bank branch shall ensure the following:

a. The Bank Guarantee issued by the bank shall be routed through SFMS platform as per the following details:

- i) "MT 760/MT 760 COV" for issuance of bank guarantee.
- ii) "MT 760/MT 767 COV" for amendment of bank guarantee.

The above message/intimation shall be sent through SFMS by the BG issuing bank branch indicating the Tender No. _ to HDFC Bank Limited, Duliajan Branch, Utopia Complex, BOC Gate, Jayanagar, Duliajan, Dibrugarh, PIN – 786602.

b. Bank Guarantee issued by a Scheduled Bank in India at the request of some other Non-Scheduled Bank of India shall not be acceptable.

OIL INDIA LIMITED

Pre-Bid Meeting Minutes Format

F-8

Tender No. **CIC5544P24**Name of Work: **FEASIBILITY STUDY OF CO2 TRANSPORTATION AND STORAGE IN SALINE AQUIFERS/ RESERVOIRS OF JAISALMER BASIN, RAJASTHAN"**

Venue: Centre of Excellence for Energy Studies, Guwahati

Date : 13.02.2024

The pre-bid meeting has been organized to address the queries raised by the bidders for the said tender.

In the beginning of the meeting, OIL brief the tender details which covers the following points:-

- i. Understanding the Requirements of the Project
- ii. Tender Details: Instruction documents, BEC/BRC along with QCBS mythology & Project details
- iii. System requirement & Procedure to participate in the e-tender portal.
- iv. As the project is very important, OIL will provide two weeks time after upload of pre-bid reply and amendments.







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.

Bidders are required to submit their offers within the bid closing date and time.

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

| OIL's Representative | | Bidder's Representative | | |
|----------------------|------------------------------|-------------------------|---|---------------------------------|
| Sr. No. | Signature, Name, Designation | Sr. No. | Signature, Name, Designation | Firm's Name |
| 1 | <i>Debarshi Barik by CRE</i> | 1 | <i>RAJAN KUMAR, Project Manager India</i> | <i>HALLIBURTON INDIA (HIOP)</i> |
| 2 | <i>Baldev Bhargava. CMM</i> | 2 | <i>Vishal Mithchandani Subsurface Team Lead</i> | <i>SLB</i> |

OIL INDIA LIMITED

| | | | | |
|----|--|----|--------------------------------------|----------------|
| 3 |  R. Datta GM (CSP) | 3 | NABAJYOTI BORUAH SR. GEOPHYSICIST | SLB, Guitegaon |
| 4 |  C.P. Jeyaraj GM (C&A) | 4 | | |
| 5 |  B. (Rajib Sarma) DGM - Chem | 5 | | |
| 6 |  Rajid Sult DGM (Res) | 6 | | |
| 7 |  Akhtar U. Ahmed | 7 | | |
| 8 |  ARUNIJOTI KALITA | 8 | | |
| 9 | Pankaj Kumar Dy CRE (LOE/S) | 9 | | |
| 10 | Tshering Lama GM (Res) - HOD | 10 | | |

11. Paritish Borman
G. R.E.









Pre-Bid Meeting at CoEES

Tender no. CIC5544P24

Venue: CoEES, OIL - Guwahati

Date: 13.02.2024

| Sl. No. | Name | Designation | Company | E-Mail | Phone No. | Signature |
|---------|--------------------|------------------------------------|-------------|-----------------------------|------------|--------------|
| 1 | RAJAN KUMAR | Project Manager for Hal consulting | Halliburton | raj.k.kumar@halliburton.com | 725528184 | Rajan Kumar |
| 2 | NISHAL MULCHANDANI | SUBSURFACE TEAM LEAD | SLB | UMULCHANDANI2@SLB.COM | 8873904138 | |
| 3 | NABAJYOTI BORUAH | Sr. Geophysicist | SLB | NBORUAH@slb.com | 880044556 | |
| 4 | Debasil Barua | Dy CRE | OIL | debasil_barua@oilindia.in | 986 407737 | |
| 5 | Paishali Basman | Sr. RoTo | OIL | paishali_basman@oilindia.in | 9401804028 | |
| 6 | Pankaj Kumar | Dy. CRE | OIL | pankaj_kumar@oilindia.in | 8486272160 | Pankaj Kumar |
| 7 | A. V. Ahmed | Dy. CRE | OIL | | 9859925720 | |
| 8 | S. Gupta | CRE | OIL | | 7232050077 | |
| 9 | Arun Jyoti Kalita | CG | OIL | | | |

| Sl. No. | Name | Designation | Company | E-Mail | Phone No. | Signature |
|---------|---------------|--------------|---------|---------------------------|------------|--|
| 10 | Shruti Bucha | Manager | OIL | shruti.bucha@oilindia.in | 9435013147 |  |
| 11 | Rajib Sarmah | DGM-Chemical | OIL | rajib.sarmah@oilindia.in | 9435038177 |  |
| 12 | Bales Bharali | CMM-PL | OIL | bales_bharali@oilindia.in | 7896651296 |  |
| 13 | R. DUTTA | GM(C&P) | OIL | ramanujd@oilindia.in | 9435038905 |  |
| 14 | Ranjit Datta | DGM(Res) | OIL | ranjitd@oilindia.in | 9435038088 |  |
| 15 | Tshering Lama | GM(Res) | OIL | tlama@oilindia.in | 9957577390 |  |
| 16 | B.P. Jyawa | GM(FRA) | OIL | bpjyawa@oilindia.in | 9435038863 |  |
| 17 | N. Palka | DGM(G) | OIL | nipalka@oilindia.in | 9859305283 |  |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |

Replies to Pre-Bid Queries for tender IFB No. CIC5544P24 “Feasibility Study of CO2 Transportation and Storage in Saline Aquifers/ Reservoirs of Jaisalmer Basin, Rajasthan”

Prebid Meeting Date: 13.02.2024

Meeting Time: 10:00 AM to 01:00 PM

Venue: Conference Room, CoEES, OIL, Guwahati

1. Queries from M/s Beicip Franlab:

| Section No. | Clause No. | Nature of request | Remarks / Request | OIL Remarks |
|-------------|---------------------|-------------------|--|----------------|
| GCC | 16.b | Modification | We would like to reduce the max aggregate liability from 100% to 50% of the Contract Price. | Not Considered |
| | New subclause 16 d | Addition | We would like to add the following sub- clause regarding data liability as per standard wording of OIL INDIA already included in previous conditions of contract: | Not Considered |
| | | | “OIL shall at all times be responsible for the product(s) provided by OIL and for providing back up for all software applications and data files stored in the software. It is clearly understood that Contractor has no liability for loss, damage, or destruction to any Company data, except in the case of intentional misconduct, in which case Contractor's sole Liability is limited to reloading the data from the most recent database back-up. In no event shall Contractor ever be liable for reacquiring OIL's data.” | Not Considered |
| | New sub-clause 16 e | Addition | We would like to add the following sub- clause regarding interpretation liability as per standard wording of OIL INDIA already included in previous conditions of contract: “ All interpretations using the service, and all recommendations or reservoir descriptions based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment. Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the service. Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for arty drilling, completion, well treatment, production or other financial | Not Considered |

| | | | | |
|------------|---------------|---------------|---|--|
| | | | decision, or any procedure involving any risk to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation. | Annexure--I |
| 45 and 46 | Clarification | | Could you please confirm that these clauses are only applicable in case of termination due to CONTRACTOR's default (i.e., in case of Article 44.4 to 44.7)? | In the heading of the respective clause from 44.4 to 44.7 reason for termination is mentioned. |
| | | | In addition, our understanding is that the limitation of liability as stated in article 16 b. is applicable to the costs for which CONTRACTOR may be liable under these articles. | 100% of the Contract Price |
| | | | Could you please confirm our understanding? | |
| New clause | Addition | | We would like to add the following clause as per standard wording of OIL INDIA already included in previous conditions of contract: | Not Considered |
| | | | “ While providing the services to Company, Contractor may utilize expertise, know-how and other intellectual capital (including intellectual property and develop additional expertise, know-how and other intellectual capital (including intellectual property) which are the Contractor's exclusive property and which Contractor may freely utilize in providing services for its customers. Except where expressly and specifically indicated in writing and in exchange for appropriate agreed payment, Contractor does not develop any intellectual property for ownership by OIL. Contractor retains sole ownership of any such intellectual capital (including intellectual property) created by Contractor during the course of providing the Services. Contractor grants no title, license or right to OIL to use Contractor Group's intellectual capital (including intellectual property). » | Not Considered |
| SOW | | Clarification | Our understanding is that our Technical Proposal could be included in the Contract as an additional part of the Scope of Work. Could you please confirm? | Any additional relevant work may be included in the final contract with the successful bidder without any extension of project cost and timeline. However, the current SoW and deliverables must |

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| | | | Annexure--I be completed and delivered. |
| | | Will you provide Static and Dynamic Models? | No |
| | | Are you expected Static and Dynamic Models to be built in the frame of the study or would alternative approach such as analytical methods be acceptable? | Please refer the SoW for details |
| | | Evaluation of saline aquifers require that basin scale geological information is provided | All available log and 3D seismic data will be provided |
| | | Will you provide such information (both structural & stratigraphic) be provided for the study? | Yes |
| | | We understand that capture is outside the scope of work. Please confirm | Yes |
| | | Please confirm the number of emitters to be considered for the study. | One |
| | | At this point of the Project (Conceptual) and based on existing information and knowledge, Class 5 cost estimates shall be expected. Please confirm that our understanding is correct? | OIL wants Class 4 Cost Estimation |
| | | How many transport options shall be considered? As many as aquifer/reservoir? More? | Pipeline may be the preferable mode because of the proximity to the international border. |
| | | We understand that transport shall be studied for tankers & pipeline only. Is our understanding correct? | Yes |
| | | Please clarify the expectation of Phase II compared to Phase I for all tasks related to surface and economics. It looks like there will be major redundancies between these two Phases? | The surface scope as defined in Phase-I of SoW will continue in Phase-II. |
| | | We understand that Phase II shall go into greater details than Phase I, but still we expect significant redundancies between these two phases | The surface scope as defined in Phase-I of SoW will continue in Phase-II. |

2. Queries from M/s Q-IRS:

| Query | OIL Remarks |
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| Will the pre-bid conference be conducted online? If so, could you please provide details regarding the date, time, and platform for the conference? | Pre bid conference held on 13.02.2024 in Hybrid Mode (physical presence and online). The link for the same has already been published in the online portal well in advance |
| Has a storage site been identified for the project, or is a study expected to be conducted to assess and screen potential sites before finalizing the feasibility of the selected site? | The objective of the study is to identify potential storage site. Please refer the SOW for details. |
| What type of data is available for the project, and could you please specify the total amount of data that we would have access to? | Refer to Point 4.0 of SOW/TOR of tender document |
| Could you provide information about the size of the area of interest for the project/storage site? | Refer to SOW/TOR of tender document |
| Lastly, we would like to know the number and distance of CO2 sources relevant to the project from the identified storage site(s). | CO2 source is near DND-GPC . Distance between DND-GPC to TOT-GGS (probable storage site) is approx. 15 KM to 20 kms. |

3. Queries from M/s Baker Hughes:

| Article | Tender Clause | Baker Hughes Exception | OIL Remarks |
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| GCC-16 | 16.0 LIMITATION OF LIABILITY: | | |

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| <p>a) 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, 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>Deletion of Clause 16.0 a 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, 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>Not Considered</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>Modification as Follows ba) Notwithstanding any other provisions incorporated elsewhere in the contract, the <i>maximum</i> aggregate liability of the CONTRACTOR in respect of this contract <i>and its subject matter</i>, whether under Contract, in tort or otherwise, shall not exceed <i>(whichever is of the lesser)</i> 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 or the <i>total value payable to the Contractor under the Contract, regardless of the cause or action.</i></p> | <p>Not Considered</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>Modification as Follows 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 (ba) above. <i>Contractor shall have no liability for advice or assistance gratuitously provided by the Contractor but not required pursuant to the Contract. All of Contractor's liabilities shall</i></p> | <p>Not Considered</p> |

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| | | <u>terminate at the end of the relevant warranty period, except for claims timely commenced by Company in accordance with the Contract.</u> | |
| | | Comments: a) This provision may be deleted, since this is akin to a con-loss waiver and there is a separate standalone con-loss waiver set out as Clause 18. B) The risk exposure of Baker Hughes in respect of the Contract should not exceed a reasonable figure with respect to the remuneration it derives from the Contract and should encompass an exclusion of liability for any gratuitous advice provided for by Baker Hughes, as well as a cap in time. c) To align with the deleted text. | |
| | 18.0 CONSEQUENTIAL DAMAGE: | 18.0 CONSEQUENTIAL DAMAGE | |
| GCC Art. 18 | 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 but without limitation, to loss or profit or business interruptions, 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. | Modification as Follows Except as otherwise expressly provided <u>Notwithstanding anything to the contrary contained in the Contract or elsewhere, neither party shall be liable to the other for <i>and the Contractor shall indemnify the Company from and against any and all claims for the consequential loss of the Contractor arising out of or in connection with the Contract, regardless of cause or action; and Company shall indemnify the Contractor from and against any and all claims for consequential loss of Company arising out of or in connection with the Contract regardless of cause or action, including without limitation any special, punitive, exemplary, incidental</i> indirect or consequential damages resulting from or arising out of the contract, including but without limitation, to loss or profit or <i>loss of production loss of revenue, loss of business and/or</i> business interruptions, <i>Company standby time; rig time; vessel, facility, or</i></u> | Not Considered |

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| | | <p><u>equipment downtime, whether any of the foregoing are direct or indirect,</u> 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.</p> | |
| | | <p>Comment: As a key part of the indemnity structure that the parties are trying to create, the consequential damages waiver must be clearly worded and defined. A “consequential loss” provision is “must-have” provision in any contract; being a mutual hold harmless provision is bilateral and benefits OIL as much as it benefits Baker Hughes. Such indemnities must (i) be expressed as a dominant provision; (ii) include loss of loss of revenue, loss of business and business interruptions, rig, vessel, or other facility or equipment downtime, exemplary, punitive and incidental losses etc. as types of consequential losses; (iii) be expressed and apply “regardless of the cause”. This position is a widely accepted norm and is totally consistent with industry standards.</p> | |
| | 19.0 RISK PURCHASE: | 19.0 RISK PURCHASE | Not Considered |

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| GCC Art. 19 | <p>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> | <p>Modification as Follows <u>In the event, CONTRACTOR's failure to provide the services <i>for reasons solely attributable to the CONTRACTOR</i>, 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; <i>PROVIDED however, if such services are carried out by the Company by employing a third party contractor; then the Contractor shall only be liable for any reasonable, direct, documented, incremental/additional costs in getting such third party contractor to re-perform the whole or such part of the services; in which event, the Contractor's maximum liability to the Company for such excess costs shall be limited to 10% of the value of such services (or part thereof) which was in default. The remedies set forth herein shall constitute the Company's sole and exclusive remedies, and all other rights and remedies under law are excluded.</i> 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.</u></p> | |
| | | <p>Comment: Baker Hughes may not be called upon to assume uncapped liability for such costs (which will be tantamount to issuing a blank check to a competitor). There should be reasonable limit, depending on whether Baker Hughes is paid for such Services or not. The rights/remedies available to OIL are clearly set out in the Contract and it is unfair to avail the remedies available under law in addition to having availed what is set out under the Contract.</p> | |
| GCC Art. 30 | 30.0 TIMELY MOBILISATION AND LIQUIDATED DAMAGES: | 30.0 LIQUIDATED DAMAGE FOR DEFAULT IN TIMELY MOBILISATION | Not Considered |

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| | Please amend as follows | |
| <p>a) Time is the essence of this Contract. If the CONTRACTOR fails 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>Modification as Follows a) Time is the essence of this Contract.</p> | |
| <p>b) If the contractor is unable to mobilize/deploy and commence the operation within the period specified in sub clause (a) above, it may request OIL for extension of the time with unconditionally agreeing for levy and recovery of LD. Upon receipt of such a request, OIL may at its discretion, extend the period of mobilization and shall recover from the CONTRACTOR, as an ascertained and agreed Liquidated Damages, a sum equivalent to @ 0.5% of contract value including mobilization cost, per week or part thereof of delay subject to maximum of 7.5% of the Contract Price.</p> | <p>Modification as Follows b) If the contractor is unable to mobilize/deploy and commence the operation within the period specified in sub clause (a) above, <u>due to reasons solely attributable to the Contractor</u>, , it may request OIL for extension of the time with unconditionally agreeing for levy and recovery of LD. Upon receipt of such a request, OIL may at its discretion, extend the period of mobilization and shall recover from the CONTRACTOR, as an ascertained and agreed Liquidated Damages, a sum equivalent to @ 0.5% of <u>delayed service contract</u> value including mobilization cost, per week or part thereof of delay subject to maximum of 7.5% of the Contract Price. Please add the following :- <u>Company agrees that payment of liquidated damages by Contractor shall constitute Contractor's sole liability and Company's sole remedy for such delay/default. Company further agrees that no liquidated damages will be due or otherwise payable unless the Company has suffered direct economic harm as a result of such delay.</u></p> | |
| | <p>Comment: Baker Hughes takes the position that it is unfair to impose "liquidated damages", if OIL has not suffered any actual economic loss, as a result of any such delay/default. The entire basis of imposing liquidated damages is that they represent the mutually agreed full and fair compensation for any such delay/default. Where the contract</p> | |

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| | | <i>contemplates payment of liquidated damages; it is inappropriate to allow other alternative remedies in addition to those liquidated damages.</i> | |
| GCC Art. 32 | 32.0 SET-OFF: Any sum of money due and payable to the CONTRACTOR (including Performance Security refundable to them) under this or any other Contract, whether in progress or in future, may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the CONTRACTOR with OIL (or such other person or persons contracting through OIL). | 32.0 SET-OFF: Modification as Follows Any sum of money due and payable to the CONTRACTOR (including Performance Security refundable to them) under this or any other Contract, whether in progress or in future , may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the CONTRACTOR with OIL (or such other person or persons contracting through OIL). | Not Considered |
| | | <i>Comment: Baker Hughes takes the position that OIL should not be able to set-off any and all monies which may be owed by Baker Hughes to OIL, particularly those which are outside the scope of the Contract. They could be disputed by Baker Hughes and in any event, there should be privity of contract, i.e., one contract should NOT give rise to obligations under another. Additionally, setoff figures outside the Contract would be too complicated when it comes to accounting and would be a nightmare to administer.</i> | |
| GCC-38 | | Contractor proposes Company standard clause on Liability for Well which covers pollution. | Not Considered |
| | POLLUTION AND CONTAMINATION: The CONTRACTOR shall be liable for all surface and sub-surface pollution to the extent caused by CONTRACTOR and resulting from CONTRACTOR's operation/service or spillage or dumping of solvents/additive substances or pollutants, which the CONTRACTOR brings to the Site for use in connection with Work to be performed under this Contract. | | |

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| <p>Notwithstanding anything to the contrary contained herein, it is agreed that except on the ground of willful misconduct or criminal misconduct, COMPANY shall release, indemnify and hold CONTRACTOR and its sub-CONTRACTORS harmless from any and all claims, judgments, losses, expenses and any costs related thereto (including but not limited to Court costs and "Attorney's fees") for:</p> | <p>Please amend as follows:</p> |
| | <p><u>38.0 POLLUTION AND CONTAMINATION:</u></p> |
| <p>a) Damage to or loss of any reservoir or producing formation; and/ or</p> | <p>The Contractor shall be liable for all surface and sub-surface pollution to the extent caused by Contractor and resulting from Contractor's operation/service or spillage or dumping of solvents/additive substances or pollutants, which the Contractor brings to the Site for use in connection with Work to be performed under this Contract.</p> |
| <p>b) Damage to or loss of any well; and/or</p> | <p>Notwithstanding anything to the contrary contained herein, it is agreed that except on the ground of willful misconduct or criminal misconduct, Company shall release, indemnify and hold Contractor and its Sub-contractors harmless from any and all claims, judgments, losses, expenses and any costs related thereto (including but not limited to Court costs and "Attorney's fees") for:</p> |
| <p>c) Any other subsurface damage or loss; and/ or</p> | <p>a) Damage to or loss of any reservoir or producing formation; and/ or</p> |
| <p>d) Any property damage or loss or personal injury or death arising out of or in connection with a blowout, fire explosion and loss of well control regardless of cause.</p> | <p>b) Damage to or loss of any well; and/ or</p> |
| | <p>c) Any other subsurface damage or loss; and/ or</p> |
| | <p>d) Any property damage or loss or personal injury or death arising out of or in connection with a blowout, fire explosion and loss of well control regardless of cause.</p> |
| | <p><u>LIABILITY FOR THE WELL:</u></p> |

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| | <p><u>Notwithstanding anything else contained herein to the contrary, in accepting an order to perform any services and / or to furnish any Equipment, the Contractor does so with the understanding that they do not guarantee results. Further notwithstanding anything else contained herein to the contrary, the Contractor shall not be liable or responsible for or in respect of:</u></p> | |
| | <p><u>(i) any sub-surface damage (including but not limited to damages or loss of a well or reservoir</u></p> | |
| | <p><u>or formation, the loss of any oil or gas there from), or any surface loss or damage or injury or death arising out of a sub-surface damage; and/or</u></p> | |
| | <p><u>(ii) blowout, fire, explosion or any other uncontrolled well condition; and/or (iii) damage to, or loss of oil or gas from any pipelines, vessels or storage or production facilities; and/or</u></p> | |
| | <p><u>(iii) any loss or damage or injury or death whatsoever, direct or consequential, including liability arising from pollution originating below the surface and any clean-up costs;</u></p> | |
| | <p><u>whether caused by their personnel or Equipment or otherwise arising from or in any way connected with such sub-surface Operations or in performing or attempting to perform any such Operations irrespective of the cause and the Company agrees that it shall absolve the Contractor and protect, defend, indemnify and hold the Contractor and its co-lessees, its sub-contractors, its agents and its parents, subsidiaries and affiliates, its other contractors and/or its and their directors, officers, employees, consultants and invitees harmless from and against all claims, suits, demands and causes of actions, liabilities, expenses, costs and judgements of every kind and character (including without limitation for the loss or damage of any property, or the injury or death of any person), without limit, in favour of any person, party or entity,</u></p> | |

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| | | <p><u>resulting from any of the above, except only to the extent of any Gross Negligence on the part of Contractor, its Sub-Contractor, their employees or equipment and tools, including costs incurred by Company in this respect.</u></p> | |
| <p>GCC 44.5</p> | <p>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 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 www.oil-india.com].</p> | <p>44.5 TERMINATION</p> <p>Please amend the existing Article as follows:</p> <p>Termination for Unsatisfactory Performance:</p> <p><u>If the COMPANY considers that, the performance of the CONTRACTOR is unsatisfactory, or not as per the provision of the Contract the Contractor fails to perform a material obligation under the Contract, such as a material failure to provide the work as described in the Scope of Work, the COMPANY shall notify the CONTRACTOR in writing and specify in details the nature of the material failure cause of dissatisfaction. The COMPANY shall have the option to terminate the Contract by giving 15 days notice in writing to the CONTRACTOR, if CONTRACTOR fails to commence comply with the requisitions contained in the said written notice issued by the COMPANY. In the event CONTRACTOR commences rectification of rectifies its non-performance to the satisfaction of the COMPANY, the option of termination may not be exercised by the COMPANY. If however</u></p> | <p>Not Considered</p> |

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| | | <p><u>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 www.oil-india.in]. Termination under this Article 12.4 shall be the Company's sole remedy for Contractor's failure to perform a material obligation under the Contract.</u></p> | |
| | | <p><i>Comment: Baker Hughes cannot agree to a termination right based on subjective opinions of OIL, such as where OIL merely considers that the work is unsatisfactory or up to the expected standard. Baker Hughes will perform the work as provided for in the Contract. Furthermore, Baker Hughes should be given a chance to remedy its failure. In the event of a termination, Baker Hughes will suffer substantial losses and therefore, termination should be OIL's sole remedy.</i></p> | |
| <p>GCC 44.9</p> | <p>Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the COMPANY on giving 30 (thirty) days</p> | <p>Termination (for convenience): Please amend the existing Article as follows:</p> | <p>Not Considered</p> |

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| | <p>written notice to the CONTRACTOR due to any other reason not covered under the above Article from 44.1 to 44.8 and in the event of such termination the COMPANY shall not be liable to pay any cost or damage to the CONTRACTOR except for payment of services as per the Contract upto the date of termination.</p> | <p>Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the COMPANY on giving 30 (thirty) 45 (<i>forty five</i>) days written notice to the CONTRACTOR due to any other reason not covered under the above Article from 44.1 to 44.8 and in the event of such termination the COMPANY shall not be liable to pay any cost or damage to the CONTRACTOR except for <u>make payment of services as per the Contract up to the date of termination, <i>plus reasonable costs actually incurred or committed to by Contractor (such as costs which are not cancellable or recoverable or for specially engineered or manufactured products or equipment) plus (ii) all costs and expenses, including overhead, incurred by Contractor in connection with Products, Equipment, or Services in progress, but not completed or delivered, plus a 25% margin, and (iii) demobilization costs and the costs associated with vendor cancellation fees or Claims arising from the termination of any vendor agreements.</i></u></p> <p>Comment: Baker Hughes should be paid for work already performed. In addition, Baker Hughes may have incurred non-recoverable costs prior to termination and it is reasonable that such costs should be borne by OIL.</p> | |
| <p>GCC 44.10</p> | <p>Consequence of Termination: In all cases of termination herein set forth, the relative obligations of the parties to the Contract shall be limited to the period up to the date of termination. Notwithstanding the termination of this Contract, the parties shall continue to be bound by the provisions of this Contract that reasonably require some action or forbearance after such termination.</p> | <p>Consequences of Termination: Please amend para 1 of the existing Article as follows:</p> | <p>Not Considered</p> |

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| <p>Upon termination of this Contract, CONTRACTOR shall return to COMPANY all of COMPANY's properties, which are at the time in CONTRACTOR's possession.</p> | <p>"In all cases of termination herein set forth, <u>except for termination as provided under clauses 44.3 and 44.9</u>, the relative obligations of the parties to the Contract shall be limited to the period up to the date of termination. Notwithstanding the termination of this Contract, the parties shall continue to be bound by the provisions of this Contract that reasonably require some action or forbearance after such termination."</p> | |
| <p>In the event of termination of contract, COMPANY will issue Notice of termination of the contract with date or event after which the contract will be terminated. The contract shall then stand terminated and the CONTRACTOR shall demobilize their personnel & materials.</p> | | |
| <p>Demobilization charges shall not be payable by COMPANY in case of Article from 44.4 to 44.7.</p> | <p>Comment: <i>In case of termination due to force majeure or due to no fault of Contractor, Contractor should be entitled to reasonable costs incurred or committed by contractor</i></p> | |

| SCC Clause | | | |
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| | Tender Clause | Baker Hughes Exception | OIL Remarks |
| <p>Interpretation Liability</p> | <p>All interpretations using the Software, and all recommendations or reservoir descriptions based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment.</p> | <p><u>Any interpretations, interpretational data, research, analysis, recommendations, opinions or advice (including but not limited to any engineering designs, geological studies or analyses, well programs, reservoir models and/or forecasts, or drilling or production optimization or management programs) ("Interpretations and/or Recommendations")</u></p> | <p>Not considered</p> |

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| | <p>Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the software. Contractor cannot and does not warrant the accuracy, correctness or completeness of any interpretation, recommendation or reservoir description. Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for arty drilling, completion, well treatment, production or other financial decision, or any procedure involving any ask to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation.</p> | <p>All Interpretations using the Software, and all Recommendations or reservoir descriptions <u>furnished by Contractor hereunder are opinions</u> based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, <u>and industry practice</u> which inferences and assumptions are not infallible, and with respect to which competent specialists, <u>professional geologists, engineers, drilling consultants, and analysts</u> may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment. Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the software. Contractor cannot and does not warrant the accuracy, correctness or completeness of any Interpretation, Recommendation or reservoir description</p> | |
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or that Company's reliance and/or any third party's reliance on such Interpretations and/or Recommendations will accomplish any particular results, and Company assumes all responsibility for any use of, or reliance upon, Interpretations and/or Recommendations, and for all decisions based thereon (including without limitation decisions based on any oil and gas evaluations, production forecasts and reserve estimates, furnished by Contractor to Company hereunder), by any person, party or entity, and Company hereby releases, indemnifies and holds harmless Contractor (and its parent, subsidiary and affiliated or related entities, and subcontractors, together with its and their respective directors, officers, employees, consultants, agents and invitees) from and against any and all claims, damages, costs, losses and liabilities arising out of such use or reliance, REGARDLESS OF THE CAUSE, INCLUDING WITHOUT LIMITATION ANY FAULT, DEFAULT, NEGLIGENCE IN ANY FORM OR DEGREE (INCLUDING GROSS NEGLIGENCE, WILLFUL MISCONDUCT, STRICT OR ABSOLUTE LIABILITY), BREACH OF DUTY (STATUTORY OR OTHERWISE), BREACH OF REPRESENTATION OR WARRANTY, OF OR BY ANY PERSON OR ENTITY, INCLUDING THE INDEMNIFIED PARTY, UNSEAWORTHINESS OF ANY VESSEL, OR ANY DEFECT IN ANY PRODUCT, EQUIPMENT, TOOL, PREMISES, OR VESSEL; FOR ALL OF THE ABOVE, WHETHER PRE-EXISTING OR NOT AND WHETHER THE CLAIMS RESULT FROM CONTRACT, WARRANTY, INDEMNITY, TORT, EXTRA-CONTRACTUAL OR STRICT LIABILITY, QUASI CONTRACT, LAW, OR OTHERWISE.

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| | | <p><u>WHETHER THE CLAIMS RESULT FROM CONTRACT, WARRANTY, INDEMNITY, TORT, EXTRA-CONTRACTUAL OR STRICT LIABILITY, QUASI CONTRACT, LAW, OR OTHERWISE.</u></p> | |
| | | <p>Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for any drilling, completion, well treatment, production or other financial decision, or any procedure involving any ask to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation.</p> | |
| | | <p><u>Contractor will endeavor to transmit data to Company as accurately and securely as practicable in accordance with current industry practice. However, Contractor does not warrant the accuracy of data transmitted by electronic processes, and will not be responsible to Company for accidental or intentional interception of such data by others</u></p> | |
| | | <p><u>Comments :-</u> This disclaimer clarifies that many of Baker Hughes' services are based on subjective decisions (e.g., opinions based on experience, not facts that can be immediately scientifically verified) or on indirect information sources (e.g., data supplied by third parties). Therefore, Baker Hughes can only offer the customer the benefit of its employees' professional judgment, and not a guarantee of accuracy. Baker Hughes cannot guarantee the opinions and accuracy of work that it provides, as these opinions may differ from expert to expert. No method of data transmission can be said to be entirely accurate or secure, and Baker Hughes cannot therefore accept liability for any data which is lost or compromised</p> | |

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| | during transmission, especially as such transmission will depend on various third party systems and infrastructure over which Baker Hughes has no control. | |
|--|--|--|

| Query on SoW | OIL Remarks |
|---|--|
| How many wells penetrate target aquifers? | Around 51 wells are present penetrating multi stack reservoirs and aquifers out of which few wells have penetrated the deeper aquifers |
| Is Geomechanical data available for caprocks of these aquifers? | Few geomechanical parameters are available for 1 caprock. Geomechanical test needs to be carried out by the successful bidder (refer 5.4- Phase-I) |
| Will water PVT available for the study? What kind of water sample analysis data are available for Saline aquifers ? | Salinity data is available for formation water. |
| What is the acreage for each field ? | Total study area is around 250 sq kms |
| Does the previous static/dynamic models capture/describe target aquifers? will they be provided as reference ? | No |
| Objective is to consider saline aquifers as well as Hydrocarbon bearing reservoirs or just saline aquifers? | Both Saline aquifers and reservoirs for screening |
| The overlying and underlying formations will not be history matched, please confirm? | Your understanding is correct |
| Contractor and build and conduct analysis/modeling on either of the software platforms – CMG or ECL/Petre RE – correct ? or are there certain limitations ? | Refer Point 5.5 A of SoW/TOR |
| Volume of CO2 production expected for storage (required CO2 sequestration rate per day) | Maximum 220 tons per day of CO2 production when gas production is 0.5 MMSCMD. However, if the production increases based on market demand, volume of CO2 will increase. Maximum Potential of plant will be 1.5 MMSCMD of gas after augmentation out of which 23-25% is CO2 . |
| What are impurity levels expected in the stream? | CO2 purity will be in the range of 80-94% . However final composition will be shared based on a current study undertaken. |
| How many welltest interpretations available? | Around 5 well test are available for Tanot and Dandewala |
| Is SCAL data available? If yes, which lab experiments are available? | No SCAL Data Available |
| Request change in Payment Schedule so that contractor cash flow is not restrained. | |

| Phase | Description and Payment (% of Study cost) | |
|-------|---|----------------|
| I | Kick-off meeting -- 10% payment | |
| II | Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2 -----40% Payment | Not Considered |
| II | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of conceptualisation of -----30% Payment | |
| III | Submission of Final Report and Presentation ---- 20% Payment | |

4. Queries from M/s Computer Modelling Group:

| Page no. | Tender Clause no | Query | OIL Remarks |
|---|---|---|--|
| Scope of work > 5.5 > A. Detailed study through modelling > xii | The approach to be followed for carrying out the reservoir simulation study (Black Oil or Compositional) to be finalized in agreement with OIL considering data availability and nature of the candidate reservoirs/aquifers. | Change: The approach to be followed for carrying out the reservoir simulation study has to be on compositional simulator. | Compositional Simulation for best 2 reservoirs in Phase-II. Amendment issued |
| Table 3 Time Schedule | Total time 30 Weeks | Change: Request timeline extension to 70 weeks. | Not considered |

| | | | |
|---|--|---|---|
| Scope of work > 5.5 > A. Detailed study through modelling | | <p>Add: Simulator should be equipped to handle the following:</p> <ul style="list-style-type: none"> • CO2 phase behaviour in the supercritical state • Solubility of CO2 in brine (including Density driven flow) • Residual gas trapping (hysteresis) • Geochemistry and Ionic trapping (including Carbonic Acid generation, water vaporization, salt precipitation) • Mineralization | Please refer 5.5 deliverables point no. vii |
| BEC-BRC > 5.0 QUALITY & COST BASED SELECTION (QCBS) METHODOLOGY > Table | | <p>Add: Experience of reservoir simulator used in the dynamic modelling</p> <p>15 points for more than 150 SPE papers 10 points for more than 100 SPE papers 0 points for less than 100 SPE papers</p> | Not considered. |
| BEC-BRC > 5.0 QUALITY & COST BASED SELECTION (QCBS) METHODOLOGY > Table | | <p>Add: Experience of reservoir simulator for CCS used in the dynamic modelling</p> <p>15 points for 15 + years 10 Points for 10 years</p> | Not considered. |

| | | | |
|--|---|--|---|
| Scope of work > 5.5 > A. Detailed study through modelling > xi | Detailed technical study involving Static and Dynamic modeling/workflow incorporating geo-mechanical parameters (coupling with geo-mechanical model) to evaluate the capacity and security of containment for a defined long term storage plan (100 years). The static model should also consider the adjoining overlying and underlying structures for dynamic simulation. In the static model, detailed structural framework, facies/rock type and property modelling need to be incorporated. Then dynamic model needs to be constructed after detailed analysis of available PVT and Core analysis data. In absence of any data, the properties may be generated using industry standard correlations based on analogous data from neighboring reservoirs. The grid resolution for the dynamic model should be 50x50x0.5 m or lesser. | Remove: The grid resolution for the dynamic model should be 50x50x0.5 m or lesser. | Not considered. |
| Scope of work > 5.5 > A. Detailed study through modelling > xiii | The geo-mechanical model may be constructed using an industry standard 3D geo-mechanical modelling software | Add: Geomechanics simulator should be part of the reservoir simulator | Not considered. |
| Scope of work > 5.5 > A. Detailed study through modelling > xiii>J | a. Run multiple reservoir simulations in which parameters with high uncertainty are varied over the range of values. Different scenarios of CO2 injection for different operating constraints to be simulated and evaluated, representing high estimate (aggressive), mid estimate (realistic) and low estimate scenarios. | Add: Uncertainty modelling must use monte carlo in addition to other relevant calculations. | Industry standard practice needs to be followed |

| | | | |
|--|--|--|-----------------|
| BRC/BEC > 2.1 Technical Evaluation Criteria > 2.1.1 | The bidder must be an Oil and Gas Service Provider and must have an ex-perience in consultancy work related to oil and gas business in sub surface or sur-face related studies for a period of at least 7 (Seven) years from the original bid clos-ing date. | Change: The bidder must be an Oil and Gas Service Provider and must have an ex-perience in consultancy work related to oil and gas business in sub surface or sur-face related studies for a period of at least 3 (Three) years from the original bid clos-ing date. | Not considered. |
|--|--|--|-----------------|

5. Queries from M/s Apeiron:

| Tender Clause No. | Queries | OIL Remarks |
|--|---|----------------|
| 2.1 TECHNICAL EVALUATION CRITERIA: | Apeiron Management has less than 7 (seven) years of experience. The Indian company registered in July 2018, will not be able to bid despite having the expertise. | Not Considered |
| 2.1.1 The bidder must be an Oil and Gas Service Provider and must have an experience in consultancy work related to oil and gas business in sub surface or surface related studies for a period of at least 7 (Seven) years from the original bid closing date | Hence request for considering experience of criteria 5 (five) years instead of 7 years | |

6. Queries from M/s DeGolyer & MacNaughton:

| Tender Clause | Query | OIL remarks |
|---|---|------------------------------|
| Clause 12.0 – Instruction to Bidder - EMD/Bid Security Clause 13.0 – Exemption to EMD/Bid Security | a) DeGolyer and MacNaughton India Pvt. Ltd. is a company registered under Indian Company Act, having a valid UDYAM Registration Certificate. We, shall be submitting our bid based upon the technical experience and financial strength of our Parent Company DeGolyer and MacNaughton Corp., (a Non MSE). Kindly advise will we need to submit EMD/Bid Security. b) Clause 13 mentions “applicable as per latest Govt. Mandate”. Kindly provide clarity on the criteria for exemption of submission of EMD/Bid Security | To submit EMD as per tender. |

| | | |
|--|---|--|
| <p>Bid Evaluation Criteria (BEC) – Clause 2.1.2 – Technical Experience</p> | <p>For relevant experience to be proven.</p> <p>Due to Non Disclosure Agreements signed amongst the parties, we shall not be able to share the contract documents for jobs conducted in the Middle East</p> <p>We can provide the 1st page of the contract and CEO certificate to substantiate the experience. Kindly advise.</p> | <p>Please Refer to clause no 2.1.2 of BEC-BRC. Any sensitive data may be masked except SoW, Contract No.</p> |
| <p>Bid Evaluation Criteria (BEC) – Clause 2.1.2 – Technical Experience</p> | <p>Will ongoing projects be counted towards the experience evaluation. D&M is presently running 3 ongoing projects</p> | <p>Ongoing projects will not be considered for Bid evaluation</p> |

7. Queries from M/s Halliburton:

| Sl. No. | Tender Clause No. | Bidder Query | OIL Remarks |
|---------|----------------------------------|--|--|
| 1 | PART – 2/ Clause No. 4.0 | Bidder request mobilization period of 06 weeks from the date of issue of Letter of Award (LOA). | OIL will review |
| 2 | Part-3/Section-II/Clause No. 4.0 | <p>Bidder request following information from OIL on data availability.</p> <p>1. What level of interpretation will be made available for the 3D and 2D seismic data? Number of horizons, faults, coverage?</p> <p>2. Do well log data display well tops and current interpretation?</p> <p>3. Conventional core analysis: only 1 report is available for 1 well. What data and information will be made available for the remaining 5 wells?</p> | <p>2 horizon interpretation along with major fault interpretation is available</p> <p>Well tops are available in all the wells and log interpretation (pdf format) is available in most of the wells</p> <p>Basic geological information</p> |
| 3 | Part-3/Section-II/Clause No. 5.1 | <p>Bidder request following information from OIL on 3D seismic data.</p> <p>1. The SOW refers to the study area being 'well covered'. Does this mean that the study area has full coverage of 3D seismic data?</p> | <p>Yes. Covered with 3D seismic.</p> |

| | | 2. Which vintage data to be used in this study? | Latest data to be used |
|----------|--|--|--|
| 4 | Part-3/Section-II/ Clause No. 3.1, 5.2 and 5.3 | Bidder request OIL to confirm only saline aquifers to be considered in the whole study. | Saline Aquifers and reservoirs are the target areas for initial screening for permanent storage of CO2 in Jaisalmer Basin if found suitable |
| 5 | Part-3/Section-II/Clause No. 5.4.A.xi | 1. Bidder request OIL to provide details of the core condition and storage history? | Core condition is good to moderate. |
| | | 2. Please confirm if contractor will be responsible to plan and perform rock mechanics laboratory testing? | Refer point 5.4 A (x),(xi) in the tender document |
| | | 3. Please confirm if there is any geographical restriction for rock mechanics testing (inside India only, or samples can be shipped out of India) if required? | There is no such restriction. However, bidder must ensure timely completion of the test for the subsequent use of the generated data/result during modelling phase as per the SoW. |
| 6 | Part-3/Section-II/Clause No. 5.4.B.ii | Bidder request OIL to clarify on existing CBL logs to be used in this study and no legacy wells to be logged unless it is a recommendation of this feasibility assessment. | Existing CBL-VDL to be used |
| 7 | Part-3/Section-II/Clause No. 5.4.B | Bidder request OIL to clarify on the following: | |
| | | 1. Are detailed well by well analyses required at this Feasibility stage or will a preliminary risk analysis based on well groups be sufficient? | A detailed evaluation of downhole conditions including casing and cementation shall be carried out to prevent any risk of leakag.Refer point 5.4 B |
| | | 2. Are all the detailed reports about the offset wells available in digital format? | WCR are available in digital format |
| | | 3. Any known well integrity issues recorded/reported in these wells? | Casing damage, casing pressures have been reported in some of the wells. |
| | | 4. How many P&A wells are among the total well inventory? | Around 15 wells are abandoned in Tanot and Dandewala |
| | | 5. Details of the materials like casing, tubing, packers, wellhead and well tree used in the well are available. | All the available data will be provided for the study |
| | | 6. Seal study: Are pore pressure profiles available? | Not Available |
| | | 7. Pressure data: Are pressure data to be made available across study area and from adjacent wells? | All the recorded pressure data will be made available for the study |

| 8 | Part-3/Section-II/Clause No. 5.4.C | Bidder request OIL to confirm that the well integrity and detailed plume assessment to be undertaken on the top 5 sites identified during Phase I - Task A | Yes. Refer SoW for details. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---|---|-----|---------------|--------------|-------|-------------|---|---|--|------------------|-----|-----|---|--|-----|-----------------------------------|----|---|----|---|----|---|----|----|---|-----|--|----|------------------|-----|------------------|-----|--------------------|-----|------------------------|-----|-----|---|-----|-------------------|-----|--|--|--|--|-----|----------------|
| 9 | Part-3/Section-II/Clause No. 7.3 | <p>Bidder proposes the following timeline break-up to OIL:</p> <p>Phase 1: Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2 -12 weeks.</p> <p>Phase 2: Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2-16 weeks.</p> <p>Phase 3: Submission of Final Report and Presentation - 02 Weeks.</p> | OIL will review | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Part-3/Section-II/Clause No.11.1 | <p>Bidder requests OIL to consider monthly Invoicing/Payment based on deliverables as per below table.</p> <table border="1" data-bbox="565 1071 1055 1360"> <thead> <tr> <th colspan="2">Table 2: Payment Schedule</th> <th>As per Tender</th> <th>HAL proposal</th> </tr> <tr> <th>Phase</th> <th>Description</th> <th>Payment after completion of (% of Study cost)</th> <th>Payment after completion of (% of Study cost)</th> </tr> </thead> <tbody> <tr> <td></td> <td>Kick-off Meeting</td> <td>10%</td> <td>10%</td> </tr> <tr> <td rowspan="4">I</td> <td rowspan="4">Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2</td> <td rowspan="4">25%</td> <td>Geological & Reservoir Assessment</td> <td>5%</td> </tr> <tr> <td>Well Integrity assessment of Legacy Wells</td> <td>5%</td> </tr> <tr> <td>Detailed Assessment of CO2 Plume movement and leakage</td> <td>5%</td> </tr> <tr> <td>Detailed evaluation of CO2 storing capacity of the identified saline aquifer/ reservoir</td> <td>5%</td> </tr> <tr> <td rowspan="5">II</td> <td rowspan="5">Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2</td> <td rowspan="5">25%</td> <td>Compression, Transportation & Injection Facility</td> <td>5%</td> </tr> <tr> <td>Seismic analysis</td> <td>10%</td> </tr> <tr> <td>Static modelling</td> <td>10%</td> </tr> <tr> <td>Dynamic Simulation</td> <td>10%</td> </tr> <tr> <td>3D Geomechanical study</td> <td>10%</td> </tr> <tr> <td>III</td> <td>Submission of Final Report and Presentation</td> <td>40%</td> <td>Project Economics</td> <td>15%</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>10%</td> </tr> </tbody> </table> | Table 2: Payment Schedule | | As per Tender | HAL proposal | Phase | Description | Payment after completion of (% of Study cost) | Payment after completion of (% of Study cost) | | Kick-off Meeting | 10% | 10% | I | Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2 | 25% | Geological & Reservoir Assessment | 5% | Well Integrity assessment of Legacy Wells | 5% | Detailed Assessment of CO2 Plume movement and leakage | 5% | Detailed evaluation of CO2 storing capacity of the identified saline aquifer/ reservoir | 5% | II | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2 | 25% | Compression, Transportation & Injection Facility | 5% | Seismic analysis | 10% | Static modelling | 10% | Dynamic Simulation | 10% | 3D Geomechanical study | 10% | III | Submission of Final Report and Presentation | 40% | Project Economics | 15% | | | | | 10% | Not Considered |
| Table 2: Payment Schedule | | As per Tender | HAL proposal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase | Description | Payment after completion of (% of Study cost) | Payment after completion of (% of Study cost) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Kick-off Meeting | 10% | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I | Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2 | 25% | Geological & Reservoir Assessment | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Well Integrity assessment of Legacy Wells | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Detailed Assessment of CO2 Plume movement and leakage | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Detailed evaluation of CO2 storing capacity of the identified saline aquifer/ reservoir | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2 | 25% | Compression, Transportation & Injection Facility | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Seismic analysis | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Static modelling | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Dynamic Simulation | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3D Geomechanical study | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III | Submission of Final Report and Presentation | 40% | Project Economics | 15% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

8. Queries from M/s SLB:

| S/ N | Section / Clause | Queries | OIL Remarks |
|--|------------------|--|--|
| PART 2 – BID EVALUATION CRITERIA | | | |
| 1. | | Bidder requests OIL to please clarify if the Consultant selected for the “Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualization of surface facilities” will have the opportunity to participate in the tender for the execution stage of the scope? This includes scenarios where OIL releases a separate tender specifically for the same requirement. | OIL will clarify |
| 2. | B (iii) | (iii) The bidder can bid based on the experience of maximum 02 sister subsidiary /co-subsi-dary companies. One sister subsidiary / co-subsi-dary each for point (i) and (ii) of clause 2.1.2 mentioned above will be allowed, provided all the above-mentioned criteria of Clause B are complied. | Not considered |
| 3. | 3.12 | The documents submitted in this regard, have to be certified and authenticated by the CEO or Equivalent of the company/authorized signatory. The mentioned experience for the team members should be reckoned from the original bid closing date. | Authorized signatory may be CEO or Equivalent of the company. This shall also include India head of the company. |
| 4. | QCBS | Bids qualifying as per terms of Technical Criteria (Para 2.0, 2.1.1 & 2.2.2 above), Core Team Members (Para 3.0 above), Mobilization (Para 4.0 above), Financial Criteria (Para 5.0 above) and Commercial Criteria (Para 6.0 above) shall be eligible for this evaluation. | Document Submission requirements will be governed by BEC clause. The bidder can bid based on the experience of maximum 02 sister subsidiary /co-subsi-dary companies for BEC/BRC and Project credential of QCBS. |
| PART 3 GENERAL CONDITIONS OF CONTRACT | | | |
| 5. | 14.6 | Please amend the clause below: | |
| | | Contractor/Consulting Firm shall also inform the Company at least 60 30 days in advance regarding the expiry cancellation and/or changes in any of such documents & ensure revalidation/renewal, etc., as may be necessary well in time. | Not considered |

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| 6. | 14.9 PRINCIPAL ASSURED | Please replace the clause with the below: | Not considered |
| | | <u>Oil India Limited is to be named additional insured on the insurance policies, (except in case of Workmen's Compensation / Employer's Liability Insurance) limited only to the extent of liabilities assumed by Contractor/ Consulting Firm under this Contract.</u> | Not considered |
| 7. | 14.1 Waiver of Subrogation | Please amend the clause below: | |
| | | <u>Except for the Workmen's Compensation / Employer's Liability Insurance for workmen engaged under this contract which have been obtained by the Contractor/Consulting Firm as their corporate policy/rules, where OIL is neither required to be present as principal assured or additional assured,</u> all insurance policies of the Contractor/ Consulting Firm with respect to the operations conducted hereunder as set forth in clauses hereof, shall be endorsed by the underwriter in accordance with the following policy wording: | Not considered |
| | | "The insurers hereby waive their rights of subrogation against Oil India Limited or any of their employees or their affiliates and assignees <u>to the extent of the indemnities undertaken by the Contractor/ Consulting Firm under this Contract</u> " | Not considered |
| 8. | 14.12 COMPLIANCE WITH SEC 25(1), OF "THE GENERAL INSURANCE BUSINESS (NATIONALIZATION) ACT 1972" | Please delete the entire clause. | |
| | | Bidder requests deletion of this provision as it is not relevant for scope envisaged in this tender. | Not considered |

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| 9. | 14.13 LOSS PAYEE CLAUSE | Please delete the entire clause. | Not considered |
| | | Bidder requests deletion of this provision as it is not relevant for scope envisaged in this tender. | Not considered |
| 10. | 14.16 ii) | Please delete the obligation to maintain this insurance. | |
| | COMMERCIAL GENERAL LIABILITY INSURANCE | The scope of work for this present tender is office-based study and not well site services, hence this insurance is not applicable. | Not considered |
| 11. | 14.16 iii) | Please delete the obligation to maintain this insurance. | |
| | COMPREHENSIVE GENERAL AUTOMOBILE INSURANCE | The scope of work for this present tender is office-based study and not well site services, hence this insurance is not applicable. | Not considered |
| 12. | 14.16 iv) | Please delete the obligation to maintain this insurance. | |
| | CARRIER'S LEGAL LIABILITY INSURANCE | The scope of work for this present tender is office-based study and not well site services, hence this insurance is not applicable. | Not considered |
| 13. | 14.16 v) | Please delete the obligation to maintain this insurance. | Not considered |
| | PUBLIC LIABILITY ACT POLICY | The scope of work for this present tender is office-based study and not well site services, hence this insurance is not applicable. | Not considered |
| 14. | 14.16 vi) PRADHAN MANTRI SURAKSHA BIMA YOJNA (PMSBY) AND PRADHAN MANTRI JEEVAN JYOTI BIMA TOJANA (PMJJBY) | Please delete the obligation to maintain this insurance. | |
| | | We will not be using any contractors for the purpose of this Scope of Work. Accordingly, we request OIL to please delete the obligation to maintain this insurance. | Not considered |
| 15. | 14.16 vii) | Please delete the obligation to maintain this insurance. The scope of work for this present tender is office-based study. We will not be providing any equipment for this job. Hence, we request deletion of this insurance requirement. | Not considered |

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|-----|--------------------|--|----------------|
| 16. | 19.0 RISK PURCHASE | <p>Please amend as follow:</p> <p>In the event, CONTRACTOR/Consulting Firm's failure to provide the services as per the Contractual scope, terms and conditions, COMPANY (OIL) reserves the right to request CONTRACTOR/Consulting Firm to remediate hire the services from any other source at the CONTRACTOR/Consulting Firm's risk & cost and the difference in cost shall be borne by the CONTRACTOR/Consulting Firm. 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/Consulting Firm.</p> | Not considered |
| 17. | 32 SET-OFF | <p>Please amend the clause as below:</p> <p>Any sum of money due and payable to the CONTRACTOR/Consulting Firm (including Performance Security refundable to them) under this or any other Contract, whether in progress or in future, may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the CONTRACTOR/Consulting Firm with OIL (or such other person or persons contracting through OIL), <u>after giving 7 days prior written notice to Contractor/Consulting Firm."</u></p> | Not considered |
| 18. | 45 | Please amend the clause as below: | |

| | | | |
|-----|--|---|----------------|
| | TO DETERMINE THE CONTRACT | <p>In such an event (i.e. termination under Article No. 44.4 to 44.9 44.8 above), the contract shall stand terminated and shall cease to be in force from the date of such notification by the COMPANY. Thereafter the CONTRACTOR/Consulting Firm shall stop forthwith any of the work then in progress, except those work which the COMPANY may, in writing, require to be done to safeguard any property or work, or installations from damages, and the COMPANY may take over the remaining unfinished work of the CONTRACTOR/Consulting Firm and complete the same through a fresh CONTRACTOR/Consulting Firm or by other means, at the risk and cost of the CONTRACTOR/Consulting Firm, and any of its sureties if any, shall be liable to the COMPANY for any excess cost occasioned by such work having to be so taken over and completed by the COMPANY <u>provided that such excess cost shall be limited to 50% of the cost of defaulted work mentioned in the Contract</u> over and above the cost at the rate/cost specified in the schedule of quantities and rates/prices.</p> | Not considered |
| 19. | 46.0 WITHOUT DETERMINING THE CONTRACT: | Please amend the clause as below: | |
| | | <p>In such an event (i.e. termination under Article No. 44.4 to 44.9 44.8 above), the COMPANY may take over the work of the CONTRACTOR/Consulting Firm or any part thereof and complete the same through a fresh CONTRACTOR/Consulting Firm or by other means, at the risk and cost of the CONTRACTOR/Consulting Firm. The CONTRACTOR/Consulting Firm and any of its sureties are liable to the COMPANY for any excess cost subject to a maximum of the contract value payable for the defective work which needs corrective action <u>provided that such excess cost shall be limited to 50% of the cost of defaulted work mentioned in the Contract.</u> over and above the cost at the rates specified in the schedule of quantities and rates/prices, occasioned by such work having been taken over and completed by the COMPANY.</p> | Not considered |

| SPECIAL CONDITIONS OF CONTRACT | | | |
|--------------------------------|------------------|--|---------------------------------|
| (PART-3-SECTION-III) | | | |
| 20. | Insurance | <p>The contractor at his own cost shall arrange, secure and maintain all six insurances listed under GCC 14.16 throughout the contract period. However, if contractor feel that some of these insurances are not applicable for this contract as per the nature of service than contractor may request to OIL for exemption of the same with proper reasoning along with proper valid documentation and obtain the approval from OIL for exemption of such insurances otherwise, it will be taken as non-compliance.</p> <p>View above, successful bidder shall make their representation to OIL and obtain approval, if any insurance is not required for such service.</p> | Not considered |
| 21. | Patent Indemnity | Please amend the clause below: | |
| | | <p>Contractor agrees to indemnify Company and pay any costs and damages finally awarded for claims based on an actual or alleged infringement of any parent patent, copyright or registered trademark granted or registered at the effective date of this Contract in the country of original delivery or intended destination of the Software provision of Services and resulting from the use of the Software Service in accordance with its intended purpose as specified in technical specifications of the Software contract.</p> | Considered. Amendment issued |
| | | <p>However, Contractor will not be liable for Patent, copyright, registered trade mark or similar infringement that arises (i) Contractor's compliance with Company's specifications, where such specifications require Contractor to modify a Software the service (ii) the combination of the Software Service with other software, products or services not furnished or approved in writing by Company (iii) any unauthorized addition to or modification of the Software Service (iv) any use of the Software Service in the performance of a method or process (practice of a process),</p> | Considered. Amendment issued |

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| | | <p>except where such practice is solely completed by or within the Software Service (v) the combination of the Software Service with other software services where, but for the combination, there would be no infringement.</p> | |
| | | <p>Company will defend and hold Contractor harmless against any expense, judgment or loss for alleged infringement of any patent, copyright or other proprietary right which results from a claim based upon (i), (ii), (iii), (iv) & (v).</p> | <p>Considered. Amendment issued</p> |
| 22. | Data Liability | <p>Please amend the clause below:</p> | |
| | | <p>OIL shall at all times be responsible for the product(s) and data provided by OIL and for providing back up for all software applications</p> | <p>Considered. Amendment issued</p> |
| | | <p>and data files stored in the software. It is clearly understood that Contractor has no liability for loss, damage, or destruction to any Company data, except in the case of intentional misconduct, in which case Contractor's sole Liability is limited to reloading the data from the most recent database back-up. In no event shall Contractor ever be liable for reacquiring OIL's data.</p> | <p>Considered. Amendment issued</p> |

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| 23. | Interpretation Liability | <p>Please amend the clause below: All interpretations using the Software, and all recommendations or reservoir descriptions based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment. Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the software. Contractor cannot and does not warrant the accuracy, correctness or completeness of any interpretation, recommendation or reservoir description. Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for any drilling, completion, well treatment, production or other financial decision, or any procedure involving any risk to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation.</p> | Considered. Amendment to be issued |
| | | | |
| | Import and Export Control | Please add the new clause below: | |
| 24. | (New Clause) | <p><u>Both Parties shall strictly comply with, and adhere to, all applicable U.S. and non-U.S. laws and regulations pertaining to economic sanctions laws, trade, import and export control. In the event that at the time when this Contract comes to existence or any moment thereafter, any trade compliance laws, regulations or restrictions of any kind, substantially adversely affect the performance of Parties or their affiliated companies under the Contract, the Parties shall seek in good faith to find a mutually acceptable solution to minimize such adverse effects.</u></p> | Not considered |

| | | | | | | | | |
|---|--------------------------------|---|---|---|--|--|---|----------------|
| | | <u>In the absence of a mutually acceptable solution, each Party, reserves the right to terminate the Contract, and the other Party agrees that it shall not be considered a breach of this Contract and hence it shall have no legal cause of action, and hereby waives any right to assert the same.</u> | | | | | | |
| 25. | Change in laws (New clause) | <p>Please add the new clause below:</p> <p><u>Notwithstanding anything else contained herein, if subsequent to the date of submission of Bid, any new or additional taxes and similar levies in nature and any increased in the direct cost ,resulting from future legislation or interpretation of existing or future legislation, including and not limited to, goods and service tax, sales tax, customs duties, R&D cess, works contract tax, services tax, corporate tax, octroi, entry taxes etc. authorities which Contractor is bound to pay in respect of the payments received by Contractor in pursuance of this agreement, then such new/additional taxes/levies will be borne by Company. Additionally, any upward change in the rates of the existing taxes/levies shall be to the account of Company. In case of reduction or exemption from any taxes/ levies, benefit shall be passed on to the Company.</u></p> | Refer point 39 of part - 3 (General conditions of contract) of tender document | | | | | |
| 26. | Prices exclusive of GST | <p>Request company to add below clause for clarity:</p> <p><u>Prices quoted by the bidder are exclusive of Goods and Service Tax (GST). GST rate will be specified as per respective SAC code for the services.</u></p> | If price quoted are exclusive of GST, then GST rate has to be clearly specified by the bidder | | | | | |
| 27. | | <p><u>Table 5: Payment Schedule</u></p> <table border="1"> <tr> <td>Phase</td> </tr> <tr> <td>Phase-I -- Payment of 10% of study cost</td> </tr> <tr> <td>Phase-II -- Payment of 25% of study cost</td> </tr> <tr> <td>Phase- III -- Payment of 25% of study cost</td> </tr> <tr> <td>Report Submission -- Payment of 40% of study cost</td> </tr> </table> | Phase | Phase-I -- Payment of 10% of study cost | Phase-II -- Payment of 25% of study cost | Phase- III -- Payment of 25% of study cost | Report Submission -- Payment of 40% of study cost | Not Considered |
| Phase | | | | | | | | |
| Phase-I -- Payment of 10% of study cost | | | | | | | | |
| Phase-II -- Payment of 25% of study cost | | | | | | | | |
| Phase- III -- Payment of 25% of study cost | | | | | | | | |
| Report Submission -- Payment of 40% of study cost | | | | | | | | |

| Scope of Work | | | |
|---------------|-----------------------|---|--|
| 28. | | OIL has selected 4 formations (Annexure-I) consisting of Saline aquifers/reservoirs in Tanot and Dandewala Field of Rajasthan for feasibility study to evaluate suitability for permanent Storage of CO2. | OIL will check. |
| | | Annexure-I & II is missing in the tender docket, bidder request OIL to share the same for analysis. | |
| 29. | SOW , Page # 5 | In total how many reservoirs/aquifers to be screened from Tanot & Dandewala field of Jaisalmer Basin | 5 formations (Annexure-I) has been shortlisted for the study. The compartmentalisation study of reservoirs/aquifers is a part of the scope of work |
| 30. | SOW , Page # 5 | Please confirm Aquifer water quality lab reports are available | Salinity data is available |
| 31. | SOW, 18, point "a" | How many CO2 injection scenarios required. | Please refer Point 5.5 of Scope of Work |
| 32. | SOW, 20, point "Xi" | What level of CO2 impurity to consider for the study. How many cases please specify the CO2 impurities. How many cases to consider. | CO2 purity range of around 80- 95% should be considered for a sensitivity. As per requirement during the study |
| 33. | SOW, 20, point "Xvii" | Please specify current regulatory constraints | All constraints as per prevailing Govt. regulations and norms to be considered during the study. |
| 34. | | The study to be carried out in country or its acceptable to carryout in SLB Global Consulting Hub. | The study is to be carried out at the Service Provider's work facility as per the bidding criteria. Please refer Clause 8.0 of SoW (work association) for details. |
| 35. | | Is detailed well integrity required on all existing wells (including abandoned) or this task be restricted to the 2 reservoirs / Aquifers carried forward to phase 2. | A detailed evaluation of downhole conditions including casing and cementation shall be carried out to prevent any risk of leakag. Refer point 5.4 B |

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| 36. | SOW, 17, point "Vii" | How many wells required to do near wellbore modeling. | As per requirement and mutually agreed during study |
| 37. | 4.0 Data Availability | What data will OIL provide to conduct drilling offset well analysis (e.g., End of Well Reports, Operational Reports and/or Daily Drilling Reports)? Or what offset well data is the Contractor expected to analyze for well design? | All available information will be provided |
| 38. | 4.0 Data Availability | Which logs are available from the existing petrophysical interpretation in the 45 wells? Are both the reservoir and seal covered in the existing petrophysical evaluation? | All basic triple combo logs are available in both reservoir and seal |
| 39. | 4.0 Data Availability | Will well markers be provided? | Yes |
| 40. | 4.0 Data Availability | What is the borehole quality in the wells of the three fields under evaluation? | Mostly good to moderate |
| 41. | 4.0 Data Availability | What type of core measurements are available for review of existing petrophysical evaluation? | Not available. |
| 42. | 4.0 Data Availability | What is the porosity-permeability range of the reservoirs/ saline aquifers under evaluation? | Porosity range 14-24%. Permeability of Lower goru is 0.6-1 md. For others to be evaluated based on industry standard correlation/analogy |
| 43. | 5.0 SOW | Are their known fluid compartments in the fields under evaluation? | 5 formations (Annexure-I) has been shortlisted for the study. However, compartmentalisation study of reservoirs/aquifers is a part of the scope of work |
| 44. | 5.4 A Geol & Rsvr Assessment | Could you confirm that a fresh petrophysical evaluation is required for 30 wells? Are these wells a subset of the 45 wells (that have well logs)? | Yes. |
| 45. | 5.4 A Geol & Rsvr Assessment | What about the remaining 15 wells (with reference to question above) - is a petrophysical analysis not required? And why? | Inhouse petrophysical interpretation is available in 15 wells but required review by the successful bidder |
| 46. | 5.4 A Geol & Rsvr Assessment | Is core data available for the seal formation? | Available in 1 formation of 1 well |

| | | | |
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| 47. | 5.4 A Geol & Rsvr Assessment | Is the seal (for each formation considered for storage) covered by well logs? | Yes. |
| 48. | 5.4 A Geol & Rsvr Assessment | How many wells have borehole image logs? How many wells have triple combo? How many wells have compressional and shear sonic logs? How many wells have magnetic resonance logs? | Borehole image log- 4 wells, Triple combo logs- almost all wells, Dipole sonic logs- 11 wells and no Magnetic resonance logs are available in the study area |
| 49. | 5.4 A Geol & Rsvr Assessment | Is petrophysical rock typing available for the reservoir and the seal for each reservoir/field under evaluation? | Not available. |
| 50. | 5.4 A Geol & Rsvr Assessment | Is a saturation height function/transform available for the reservoir and the seal for each reservoir/field under evaluation? | Not available. |
| 51. | 5.4 A Geol & Rsvr Assessment | Do the fields/reservoirs and seals have a core sedimentological study along with report? | Available in 1 formation of 1 well |
| 52. | 5.4 A Geol & Rsvr Assessment | What is the recovery factor for the HC reservoirs and how much is recovered already? | Refer Annexure -I |
| 53. | 2.0 Brief Outline of the field | What is the water depth? Do existing wells have surface or subsea wellhead? | All wells are onshore. Surface well head |
| 54. | 5.4-B Well integrity assessment of legacy wells | Could OIL elaborate on what is the required format or deliverable to fulfill the following, as per the SOW 5.4-B: "give recommendation on best well construction practices for CO2 Injector", "give recommendations on best practices and remedial measures", "provide remedial measures", "to provide recommendations on monitoring wells", etc. | Existing wells in the basin may be utilised as CO2 injector or monitoring well, if the reservoir is found feasible for CO2 storage. In such scenario, recommendations to be made regarding the remedial measures to make the well CO2 friendly (as the existing well completions are not CO2 compatible) . Similarly for new CO2 injector and monitoring well(s), recommendations for well completion in terms of metalurgy and best well construction practise needs to be incorporated. |

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| 55. | 5.4-B Well integrity assessment of legacy wells | Is there an applicable regulation or standard, specific to CO2 storage, to which the scope of work described in 5.4-B is required to adhere to? | All constraints as per prevailing Govt. regulations and norms to be considered during the study. |
| 56. | | Since fields are still in production do you (i) consider them as primary target for CO2 utilization -EGR (ii) to utilize water zone (structural flanks) (iii) to screen for any other potential formation that can be utilized for CO2 storage in post-production period? | Scope is specifically for permanent storage of CO2 immediately and not CO2 EOR or EGR. However, screening of all potential formation (reservoirs/aquifers) that can be utilized for CO2 storage has to be carried out as detailed in SoW. |
| 57. | 5.4 A | Seal integrity analysis is a result of 3D geomechanical model. What level of assessment beyond thickness is expected at this stage. | Refer to SOW for details |
| 58. | 5.4 A | Fault stability analysis is a result of 3D geomechanical model. At this stage goal is to avoid any potential leakage points. What level of assessment beyond distance to fault/seismicity is expected at this stage | All relevant parameters as described in SoW needs to be analysed during the different stages of the study |
| 59. | 5.4 A | For paleo tectonism a restoration model is necessary. Do you expect this to be done at this stage | All relevant studies as described in SoW needs to be carried out during the different stages of the study |
| 60. | | For Well integrity do you have cement logs for all wells (or for how many) | Cement logs are available for most of the wells |
| 61. | | Can you elaborate in more details what is the area (250km ²) of interest: field area. Is it the blue polygon in figure 1: location map? | Yes blue polygon |
| 62. | Phase 1 | Is it expected that surface feasibility study is initiated after screening and selection of top 5 sites (for top 5 sites) or for all sites | Please be guided by SoW |
| 63. | 5.4 C | How many wells have a well test data and interpretation and report? | Around 5 wells |
| 64. | 5.4 D | Is formation water salinity data available? | Formation water salinity data is available |

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|-----|----------------------------|---|---|
| 65. | 5.4 D | From core: is formation cementation exponent and saturation exponent available? | No |
| 66. | 5.4 D | Is LAS format for petrophysical output deliverables acceptable for Oil India? | Yes. LAS and PDF both required. |
| 67. | 4.0 Data Availability (v) | How many wells have sonic and density logs (compression and shear)? | Dipole sonic log is available in 11 wells. Density logs are available in all major wells. |
| 68. | 4.0 Data Availability (vi) | Core data: How many wells have rock mechanics core data and what type of core data available | Available in 1 formation of 1 well |
| 69. | 4.0 Data Availability (vi) | Are there any image log and interpretation available? | Yes |
| 70. | 4.0 Data Availability (vi) | Any mini-frac (stress measurements) data available? | No. However, LOT/PIT is available in few of the wells. |
| 71. | 4.0 Data Availability (vi) | Any formation pressure measurements available? | The available pressure data will be provided |
| 72. | 5.4 B Well Integrity | This section needs to be moved to Phase 2 integrity assessment as well will be done only after reservoirs/aquifers are screened/selected in Phase 1 | Well integrity studies in Phase I has to be carried out so that this criteria can also be used for screening of 2 best reservoir for Phase-2 |
| 73. | 5.4 A iii | Please provide more details on the scope of seismic interpretation (Number/Extent of formations, aquifers, reservoirs, etc) | 2 horizon interpretation along with major fault interpretation is available. Requires review of existing interpretation and detailed interpretation of deeper formations, aquifers, reservoirs. |
| 74. | Contract Duration | The Contract is for a period of 30 weeks from the date of mobilization/effective date of the Contract. | Not Considered. Timeline for individual phase may be modified to some extent and as agreed to OIL during kickoff meeting. |

| | | <table border="1"> <thead> <tr> <th>Phase</th> <th>Description</th> <th>Time Schedule</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>Screening & Evaluation of identified formations with saline Aquifers/ Res-ervoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2.</td> <td>16 weeks</td> </tr> <tr> <td>II</td> <td>Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2</td> <td>15 weeks</td> </tr> <tr> <td>III</td> <td>Submission of Final Report and Presentation</td> <td>4 weeks</td> </tr> <tr> <td></td> <td>Total</td> <td>35 weeks</td> </tr> </tbody> </table> | Phase | Description | Time Schedule | I | Screening & Evaluation of identified formations with saline Aquifers/ Res-ervoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2. | 16 weeks | II | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2 | 15 weeks | III | Submission of Final Report and Presentation | 4 weeks | | Total | 35 weeks | However, the Bidder must complete the project within the Project timeline of 30 weeks |
|-------|--|---|----------------|-------------|---------------|---|--|----------|----|---|----------|-----|---|---------|--|--------------|-----------------|---|
| Phase | Description | Time Schedule | | | | | | | | | | | | | | | | |
| I | Screening & Evaluation of identified formations with saline Aquifers/ Res-ervoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2. | 16 weeks | | | | | | | | | | | | | | | | |
| II | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2 | 15 weeks | | | | | | | | | | | | | | | | |
| III | Submission of Final Report and Presentation | 4 weeks | | | | | | | | | | | | | | | | |
| | Total | 35 weeks | | | | | | | | | | | | | | | | |
| 75. | | All the team members including the Project Manager must be a regular fulltime employee of the Service Provider at the time of award of Contract till the end of the contract . Documentary evidence supporting it must be submitted for all the team members prior to mobilization. | Not Considered | | | | | | | | | | | | | | | |

9. Queries from M/s Navvata Energy Transition (NET) Enterprise Private Limited:

| Clause No. | Nature of request | Remarks / Request | OIL Remarks |
|------------|--------------------------------------|---|----------------|
| 2.1.2 (ii) | Addition of red mark text in the SoW | Conceptualization of Surface facilities for Compression, Transportation and Injection of CO2 or experience of executing a carbon capture plant on EPC basis can qualify. Project under execution can be also considered. However, similar work carried out separately (i) and (ii) will also be considered towards experience. In that case, the bidder must carry out one similar work as described in 2.1.2 (i) and another as described in 2.1.2 (ii) above (total two projects). | Not Considered |
| | | If a bidder meets criteria (ii) then bidder can qualify provided the bidder hires a qualified subcontractor meeting requirement of (i) or | Not Considered |
| | | Presents CVs of the CCUS experts who have been hired by the bidder for the CCUS Feasibility studies as per the required experience criteria for the individual, which would be provided by OIL. OIL, at its discretion, would carry out a reference check of the individuals. | Not Considered |

OIL's reply to Pre-bid queries

1. Queries from M/s Beicip Franlab:

| Section No. | Clause No. | Nature of request | Remarks / Request | OIL Remarks |
|-------------|----------------------|-------------------|--|----------------|
| GCC | 16.b | Modification | We would like to reduce the max aggregate liability from 100% to 50% of the Contract Price. | Not Considered |
| | New subclause 16 d | Addition | We would like to add the following sub- clause regarding data liability as per standard wording of OIL INDIA already included in previous conditions of contract: | Not Considered |
| | | | “OIL shall at all times be responsible for the product(s) provided by OIL and for providing back up for all software applications and data files stored in the software. It is clearly understood that Contractor has no liability for loss, damage, or destruction to any Company data, except in the case of intentional misconduct, in which case Contractor's sole Liability is limited to reloading the data from the most recent database back-up. In no event shall Contractor ever be liable for reacquiring OIL's data.” | Not Considered |
| | New sub- clause 16 e | Addition | We would like to add the following sub- clause regarding interpretation liability as per standard wording of OIL INDIA already included in previous conditions of contract: “ All interpretations using the service, and all recommendations or reservoir descriptions based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment. Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the service. Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for arty drilling, completion, well treatment, production or other financial decision, or any procedure involving any risk to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for | Not Considered |

| | | | | |
|------------|---------------|---------------|---|--|
| | | | all decisions concerning other procedures relating to the drilling or production operation. | |
| 45 and 46 | Clarification | | Could you please confirm that these clauses are only applicable in case of termination due to CONTRACTOR's default (i.e., in case of Article 44.4 to 44.7)? | In the heading of the respective clause from 44.4 to 44.7 reason for termination is mentioned. |
| | | | In addition, our understanding is that the limitation of liability as stated in article 16 b. is applicable to the costs for which CONTRACTOR may be liable under these articles. | 100% of the Contract Price |
| | | | Could you please confirm our understanding? | |
| New clause | Addition | | We would like to add the following clause as per standard wording of OIL INDIA already included in previous conditions of contract: | Not Considered |
| | | | “ While providing the services to Company, Contractor may utilize expertise, know-how and other intellectual capital (including intellectual property and develop additional expertise, know-how and other intellectual capital (including intellectual property) which are the Contractor's exclusive property and which Contractor may freely utilize in providing services for its customers. Except where expressly and specifically indicated in writing and in exchange for appropriate agreed payment, Contractor does not develop any intellectual property for ownership by OIL. Contractor retains sole ownership of any such intellectual capital (including intellectual property) created by Contractor during the course of providing the Services. Contractor grants no title, license or right to OIL to use Contractor Group's intellectual capital (including intellectual property). » | Not Considered |
| SOW | | Clarification | Our understanding is that our Technical Proposal could be included in the Contract as an additional part of the Scope of Work. Could you please confirm? | Any additional relevant work may be included in the final contract with the successful bidder without any extension of project cost and timeline. However, the current SoW and deliverables must |

Annexure-IB

| | | | |
|--|--|---|---|
| | | | be completed and delivered. |
| | | Will you provide Static and Dynamic Models? | No |
| | | Are you expected Static and Dynamic Models to be built in the frame of the study or would alternative approach such as analytical methods be acceptable? | Please refer the SoW for details |
| | | Evaluation of saline aquifers require that basin scale geological information is provided | All available log and 3D seismic data will be provided |
| | | Will you provide such information (both structural & stratigraphic) be provided for the study? | Yes |
| | | We understand that capture is outside the scope of work. Please confirm | Yes |
| | | Please confirm the number of emitters to be considered for the study. | One |
| | | At this point of the Project (Conceptual) and based on existing information and knowledge, Class 5 cost estimates shall be expected. Please confirm that our understanding is correct? | OIL wants Class 4 Cost Estimation |
| | | How many transport options shall be considered? As many as aquifer/reservoir? More? | Pipeline may be the preferable mode because of the proximity to the international border. |
| | | We understand that transport shall be studied for tankers & pipeline only. Is our understanding correct? | Yes |
| | | Please clarify the expectation of Phase II compared to Phase I for all tasks related to surface and economics. It looks like there will be major redundancies between these two Phases? | The surface scope as defined in Phase-I of SoW will continue in Phase-II. |
| | | We understand that Phase II shall go into greater details than Phase I, but still we expect significant redundancies between these two phases | The surface scope as defined in Phase-I of SoW will continue in Phase-II. |

2. Queries from M/s Q-IRS:

| Query | OIL Remarks |
|---|--|
| Will the pre-bid conference be conducted online? If so, could you please provide details regarding the date, time, and platform for the conference? | Pre bid conference held on 13.02.2024 in Hybrid Mode (physical presence and online). The link for the same has already been published in the online portal well in advance |
| Has a storage site been identified for the project, or is a study expected to be conducted to assess and screen potential sites before finalizing the feasibility of the selected site? | The objective of the study is to identify potential storage site. Please refer the SOW for details. |
| What type of data is available for the project, and could you please specify the total amount of data that we would have access to? | Refer to Point 4.0 of SOW/TOR of tender document |
| Could you provide information about the size of the area of interest for the project/storage site? | Refer to SOW/TOR of tender document |
| Lastly, we would like to know the number and distance of CO2 sources relevant to the project from the identified storage site(s). | CO2 source is near DND-GPC . Distance between DND-GPC to TOT-GGS (probable storage site) is approx. 15 KM to 20 kms. |

3. Queries from M/s Baker Hughes:

| Article | Tender Clause | Baker Hughes Exception | OIL Remarks |
|---------|-------------------------------|------------------------|-------------|
| GCC-16 | 16.0 LIMITATION OF LIABILITY: | | |

| | | |
|---|--|--------------------------------------|
| <p>a) 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, 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>Deletion of Clause 16.0 a 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, 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 align="center">Not Considered</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>Modification as Follows (b) Notwithstanding any other provisions incorporated elsewhere in the contract, the <u>maximum</u> aggregate liability of the CONTRACTOR in respect of this contract <u>and its subject matter</u>, whether under Contract, in tort or otherwise, shall not exceed <u>(whichever is of the lesser)</u> 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 <u>Intellectual Property Rights or the total value payable to the Contractor under the Contract, regardless of the cause or action.</u></p> | <p align="center">Not Considered</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>Modification as Follows 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. <u>Contractor shall have no liability for advice or assistance gratuitously provided by the Contractor but not required pursuant to the Contract. All of Contractor's liabilities shall</u></p> | <p align="center">Not Considered</p> |

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| | | <p><u>terminate at the end of the relevant warranty period, except for claims timely commenced by Company in accordance with the Contract.</u></p> | |
| | | <p>Comments: a) This provision may be deleted, since this is akin to a con-loss waiver and there is a separate standalone con-loss waiver set out as Clause 18. B) The risk exposure of Baker Hughes in respect of the Contract should not exceed a reasonable figure with respect to the remuneration it derives from the Contract and should encompass an exclusion of liability for any gratuitous advice provided for by Baker Hughes, as well as a cap in time. c) To align with the deleted text.</p> | |
| | <p>18.0 CONSEQUENTIAL DAMAGE:</p> | <p>18.0 CONSEQUENTIAL DAMAGE</p> | |
| <p>GCC Art. 18</p> | <p>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 but without limitation, to loss or profit or business interruptions, 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.</p> | <p>Modification as Follows Except as otherwise expressly provided<u>Notwithstanding anything to the contrary contained in the Contract or elsewhere</u>, neither party shall be liable to the other for <u>and the Contractor shall indemnify the Company from and against any and all claims for the consequential loss of the Contractor arising out of or in connection with the Contract, regardless of cause or action; and Company shall indemnify the Contractor from and against any and all claims for consequential loss of Company arising out of or in connection with the Contract regardless of cause or action, including without limitation any special, punitive, exemplary, incidental</u> indirect or consequential damages resulting from or arising out of the contract, including but without limitation, to loss or profit or <u>loss of production loss of revenue, loss of business and/or</u> business interruptions, <u>Company standby time; rig time; vessel, facility, or</u></p> | <p>Not Considered</p> |

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| | | <p><u>equipment downtime, whether any of the foregoing are direct or indirect,</u> 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.</p> | |
| | | <p>Comment: As a key part of the indemnity structure that the parties are trying to create, the consequential damages waiver must be clearly worded and defined. A “consequential loss” provision is “must-have” provision in any contract; being a mutual hold harmless provision is bilateral and benefits OIL as much as it benefits Baker Hughes. Such indemnities must (i) be expressed as a dominant provision; (ii) include loss of revenue, loss of business and business interruptions, rig, vessel, or other facility or equipment downtime, exemplary, punitive and incidental losses etc. as types of consequential losses; (iii) be expressed and apply “regardless of the cause”. This position is a widely accepted norm and is totally consistent with industry standards.</p> | |
| | <p>19.0 RISK PURCHASE:</p> | <p>19.0 RISK PURCHASE</p> | <p>Not Considered</p> |

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| <p>GCC Art. 19</p> | <p>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> | <p>Modification as Follows In the event, CONTRACTOR's failure to provide the services <u>for reasons solely attributable to the CONTRACTOR</u>, 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; <u>PROVIDED however, if such services are carried out by the Company by employing a third party contractor; then the Contractor shall only be liable for any reasonable, direct, documented, incremental/additional costs in getting such third party contractor to re-perform the whole or such part of the services; in which event, the Contractor's maximum liability to the Company for such excess costs shall be limited to 10% of the value of such services (or part thereof) which was in default. The remedies set forth herein shall constitute the Company's sole and exclusive remedies, and all other rights and remedies under law are excluded.</u> 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> | |
| | | <p>Comment: Baker Hughes may not be called upon to assume uncapped liability for such costs (which will be tantamount to issuing a blank check to a competitor). There should be reasonable limit, depending on whether Baker Hughes is paid for such Services or not. The rights/remedies available to OIL are clearly set out in the Contract and it is unfair to avail the remedies available under law in addition to having availed what is set out under the Contract.</p> | |
| <p>GCC Art. 30</p> | <p>30.0 TIMELY MOBILISATION AND LIQUIDATED DAMAGES:</p> | <p>30.0 LIQUIDATED DAMAGE FOR DEFAULT IN TIMELY MOBILISATION</p> | <p>Not Considered</p> |

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| <p>a) Time is the essence of this Contract. If the CONTRACTOR fails 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>Please amend as follows</p> <p>Modification as Follows a) Time is the essence of this Contract.</p> |
| <p>b) If the contractor is unable to mobilize/deploy and commence the operation within the period specified in sub clause (a) above, it may request OIL for extension of the time with unconditionally agreeing for levy and recovery of LD. Upon receipt of such a request, OIL may at its discretion, extend the period of mobilization and shall recover from the CONTRACTOR, as an ascertained and agreed Liquidated Damages, a sum equivalent to @ 0.5% of contract value including mobilization cost, per week or part thereof of delay subject to maximum of 7.5% of the Contract Price.</p> | <p>Modification as Follows b) If the contractor is unable to mobilize/deploy and commence the operation within the period specified in sub clause (a) above, <u>due to reasons solely attributable to the Contractor</u>, it may request OIL for extension of the time with unconditionally agreeing for levy and recovery of LD. Upon receipt of such a request, OIL may at its discretion, extend the period of mobilization and shall recover from the CONTRACTOR, as an ascertained and agreed Liquidated Damages, a sum equivalent to @ 0.5% of <u>delayed service contract</u> value including mobilization cost, per week or part thereof of delay subject to maximum of 7.5% of the Contract Price. Please add the following :- <u>Company agrees that payment of liquidated damages by Contractor shall constitute Contractor's sole liability and Company's sole remedy for such delay/default. Company further agrees that no liquidated damages will be due or otherwise payable unless the Company has suffered direct economic harm as a result of such delay.</u></p> |
| | <p>Comment: Baker Hughes takes the position that it is unfair to impose "liquidated damages", if OIL has not suffered any actual economic loss, as a result of any such delay/default. The entire basis of imposing liquidated damages is that they represent the mutually agreed full and fair compensation for any such delay/default. Where the contract</p> |

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| | | <i>contemplates payment of liquidated damages; it is inappropriate to allow other alternative remedies in addition to those liquidated damages.</i> | |
| GCC Art. 32 | 32.0 SET-OFF: | 32.0 SET-OFF: | Not Considered |
| | Any sum of money due and payable to the CONTRACTOR (including Performance Security refundable to them) under this or any other Contract, whether in progress or in future, may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the CONTRACTOR with OIL (or such other person or persons contracting through OIL). | Modification as Follows Any sum of money due and payable to the CONTRACTOR (including Performance Security refundable to them) under this or any other Contract, whether in progress or in future, may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the CONTRACTOR with OIL (or such other person or persons contracting through OIL). | |
| | | <i>Comment: Baker Hughes takes the position that OIL should not be able to set-off any and all monies which may be owed by Baker Hughes to OIL, particularly those which are outside the scope of the Contract. They could be disputed by Baker Hughes and in any event, there should be privity of contract, i.e., one contract should NOT give rise to obligations under another. Additionally, setoff figures outside the Contract would be too complicated when it comes to accounting and would be a nightmare to administer.</i> | |
| GCC-38 | | Contractor proposes Company standard clause on Liability for Well which covers pollution. | Not Considered |
| | POLLUTION AND CONTAMINATION: The CONTRACTOR shall be liable for all surface and sub-surface pollution to the extent caused by CONTRACTOR and resulting from CONTRACTOR's operation/service or spillage or dumping of solvents/additive substances or pollutants, which the CONTRACTOR brings to the Site for use in connection with Work to be performed under this Contract. | | |

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| <p>Notwithstanding anything to the contrary contained herein, it is agreed that except on the ground of willful misconduct or criminal misconduct, COMPANY shall release, indemnify and hold CONTRACTOR and its sub-CONTRACTORS harmless from any and all claims, judgments, losses, expenses and any costs related thereto (including but not limited to Court costs and "Attorney's fees") for:</p> | <p>Please amend as follows:</p> |
| | <p><u>38.0 POLLUTION AND CONTAMINATION:</u></p> |
| <p>a) Damage to or loss of any reservoir or producing formation; and/ or</p> | <p>The Contractor shall be liable for all surface and sub-surface pollution to the extent caused by Contractor and resulting from Contractor's operation/service or spillage or dumping of solvents/additive substances or pollutants, which the Contractor brings to the Site for use in connection with Work to be performed under this Contract.</p> |
| <p>b) Damage to or loss of any well; and/or</p> | <p>Notwithstanding anything to the contrary contained herein, it is agreed that except on the ground of willful misconduct or criminal misconduct, Company shall release, indemnify and hold Contractor and its Sub-contractors harmless from any and all claims, judgments, losses, expenses and any costs related thereto (including but not limited to Court costs and "Attorney's fees") for:</p> |
| <p>c) Any other subsurface damage or loss; and/ or</p> | <p>a) Damage to or loss of any reservoir or producing formation; and/ or</p> |
| <p>d) Any property damage or loss or personal injury or death arising out of or in connection with a blowout, fire explosion and loss of well control regardless of cause.</p> | <p>b) Damage to or loss of any well; and/ or</p> |
| | <p>c) Any other subsurface damage or loss; and/ or</p> |
| | <p>d) Any property damage or loss or personal injury or death arising out of or in connection with a blowout, fire explosion and loss of well control regardless of cause.</p> |
| | <p>LIABILITY FOR THE WELL:</p> |

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| | <p><u>Notwithstanding anything else contained herein to the contrary, in accepting an order to perform any services and / or to furnish any Equipment, the Contractor does so with the understanding that they do not guarantee results. Further notwithstanding anything else contained herein to the contrary, the Contractor shall not be liable or responsible for or in respect of:</u></p> | |
| | <p><u>(i) any sub-surface damage (including but not limited to damages or loss of a well or reservoir</u></p> | |
| | <p><u>or formation, the loss of any oil or gas there from), or any surface loss or damage or injury or death arising out of a sub-surface damage; and/or</u></p> | |
| | <p><u>(ii) blowout, fire, explosion or any other uncontrolled well condition; and/or (iii) damage to, or loss of oil or gas from any pipelines, vessels or storage or production facilities; and/or</u></p> | |
| | <p><u>(iii) any loss or damage or injury or death whatsoever, direct or consequential, including liability arising from pollution originating below the surface and any clean-up costs;</u></p> | |
| | <p><u>whether caused by their personnel or Equipment or otherwise arising from or in any way connected with such sub-surface Operations or in performing or attempting to perform any such Operations irrespective of the cause and the Company agrees that it shall absolve the Contractor and protect, defend, indemnify and hold the Contractor and its co-lessees, its sub-contractors, its agents and its parents, subsidiaries and affiliates, its other contractors and/or its and their directors, officers, employees, consultants and invitees harmless from and against all claims, suits, demands and causes of actions, liabilities, expenses, costs and judgements of every kind and character (including without limitation for the loss or damage of any property, or the injury or death of any person), without limit, in favour of any person, party or entity,</u></p> | |

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| | | <p><u>resulting from any of the above, except only to the extent of any Gross Negligence on the part of Contractor, its Sub-Contractor, their employees or equipment and tools, including costs incurred by Company in this respect.</u></p> | |
| <p>GCC 44.5</p> | <p>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 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 www.oil-india.com].</p> | <p>44.5 TERMINATION</p> <p>Please amend the existing Article as follows:</p> <p>Termination for Unsatisfactory Performance:</p> <p><u>If the COMPANY considers that, the performance of the CONTRACTOR is unsatisfactory, or not as per the provision of the Contract the Contractor fails to perform a material obligation under the Contract, such as a material failure to provide the work as described in the Scope of Work, the COMPANY shall notify the CONTRACTOR in writing and specify in details the nature of the material failure cause of dissatisfaction. The COMPANY shall have the option to terminate the Contract by giving 15 days notice in writing to the CONTRACTOR, if CONTRACTOR fails to commence comply with the requisitions contained in the said written notice issued by the COMPANY. In the event CONTRACTOR commences rectification of rectifies its non-performance to the satisfaction of the COMPANY, the option of termination may not be exercised by the COMPANY. If however</u></p> | <p>Not Considered</p> |

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| | | <p><u>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 www.oil-india.in]. Termination under this Article 12.4 shall be the Company's sole remedy for Contractor's failure to perform a material obligation under the Contract.</u></p> | |
| | | <p><i>Comment: Baker Hughes cannot agree to a termination right based on subjective opinions of OIL, such as where OIL merely considers that the work is unsatisfactory or up to the expected standard. Baker Hughes will perform the work as provided for in the Contract. Furthermore, Baker Hughes should be given a chance to remedy its failure. In the event of a termination, Baker Hughes will suffer substantial losses and therefore, termination should be OIL's sole remedy.</i></p> | |
| <p>GCC 44.9</p> | <p>Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the COMPANY on giving 30 (thirty) days</p> | <p>Termination (for convenience): Please amend the existing Article as follows:</p> | <p>Not Considered</p> |

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| | <p>written notice to the CONTRACTOR due to any other reason not covered under the above Article from 44.1 to 44.8 and in the event of such termination the COMPANY shall not be liable to pay any cost or damage to the CONTRACTOR except for payment of services as per the Contract upto the date of termination.</p> | <p>Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the COMPANY on giving 30 (thirty) 45 (forty five) days written notice to the CONTRACTOR due to any other reason not covered under the above Article from 44.1 to 44.8 and in the event of such termination the COMPANY shall not be liable to pay any cost or damage to the CONTRACTOR except for make payment of services as per the Contract up to the date of termination, <u>plus reasonable costs actually incurred or committed to by Contractor (such as costs which are not cancellable or recoverable or for specially engineered or manufactured products or equipment) plus (ii) all costs and expenses, including overhead, incurred by Contractor in connection with Products, Equipment, or Services in progress, but not completed or delivered, plus a 25% margin, and (iii) demobilization costs and the costs associated with vendor cancellation fees or Claims arising from the termination of any vendor agreements.</u></p> <p><i>Comment: Baker Hughes should be paid for work already performed. In addition, Baker Hughes may have incurred non-recoverable costs prior to termination and it is reasonable that such costs should be borne by OIL.</i></p> | |
| <p>GCC 44.10</p> | <p>Consequence of Termination: In all cases of termination herein set forth, the relative obligations of the parties to the Contract shall be limited to the period up to the date of termination. Notwithstanding the termination of this Contract, the parties shall continue to be bound by the provisions of this Contract that reasonably require some action or forbearance after such termination.</p> | <p>Consequences of Termination: Please amend para 1 of the existing Article as follows:</p> | <p>Not Considered</p> |

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| | <p>Upon termination of this Contract, CONTRACTOR shall return to COMPANY all of COMPANY's properties, which are at the time in CONTRACTOR's possession.</p> | <p>"In all cases of termination herein set forth, <u>except for termination as provided under clauses 44.3 and 44.9</u>, the relative obligations of the parties to the Contract shall be limited to the period up to the date of termination. Notwithstanding the termination of this Contract, the parties shall continue to be bound by the provisions of this Contract that reasonably require some action or forbearance after such termination."</p> | |
| | <p>In the event of termination of contract, COMPANY will issue Notice of termination of the contract with date or event after which the contract will be terminated. The contract shall then stand terminated and the CONTRACTOR shall demobilize their personnel & materials.</p> | | |
| | <p>Demobilization charges shall not be payable by COMPANY in case of Article from 44.4 to 44.7.</p> | <p>Comment: <i>In case of termination due to force majeure or due to no fault of Contractor, Contractor should be entitled to reasonable costs incurred or committed by contractor</i></p> | |

| SCC Clause | | | |
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| | Tender Clause | Baker Hughes Exception | OIL Remarks |
| <p>Interpretation Liability</p> | <p>All interpretations using the Software, and all recommendations or reservoir descriptions based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment.</p> | <p><u>Any _____ interpretations, interpretational data, research, analysis, recommendations, opinions or advice (including but not limited to any engineering designs, geological studies or analyses, well programs, reservoir models and/or forecasts, or drilling or production optimization or management programs) ("Interpretations and/or Recommendations")</u></p> | <p>Not considered</p> |

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| | <p>Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the software. Contractor cannot and does not warrant the accuracy, correctness or completeness of any interpretation, recommendation or reservoir description. Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for any drilling, completion, well treatment, production or other financial decision, or any procedure involving any risk to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation.</p> | <p>All Interpretations using the Software, and all Recommendations or reservoir descriptions <u>furnished by Contractor hereunder are opinions</u> based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, <u>and industry practice</u> which inferences and assumptions are not infallible, and with respect to which competent specialists, <u>professional geologists, engineers, drilling consultants, and analysts</u> may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment. Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the software. Contractor cannot and does not warrant the accuracy, correctness or completeness of any Interpretation, Recommendation or reservoir description</p> | |
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or that Company's reliance and/or any third party's reliance on such Interpretations and/or Recommendations will accomplish any particular results, and Company assumes all responsibility for any use of, or reliance upon, Interpretations and/or Recommendations, and for all decisions based thereon (including without limitation decisions based on any oil and gas evaluations, production forecasts and reserve estimates, furnished by Contractor to Company hereunder), by any person, party or entity, and Company hereby releases, indemnifies and holds harmless Contractor (and its parent, subsidiary and affiliated or related entities, and subcontractors, together with its and their respective directors, officers, employees, consultants, agents and invitees) from and against any and all claims, damages, costs, losses and liabilities arising out of such use or reliance, REGARDLESS OF THE CAUSE, INCLUDING WITHOUT LIMITATION ANY FAULT, DEFAULT, NEGLIGENCE IN ANY FORM OR DEGREE (INCLUDING GROSS NEGLIGENCE, WILLFUL MISCONDUCT, STRICT OR ABSOLUTE LIABILITY), BREACH OF DUTY (STATUTORY OR OTHERWISE), BREACH OF REPRESENTATION OR WARRANTY, OF OR BY ANY PERSON OR ENTITY, INCLUDING THE INDEMNIFIED PARTY, UNSEAWORTHINESS OF ANY VESSEL, OR ANY DEFECT IN ANY PRODUCT, EQUIPMENT, TOOL, PREMISES, OR VESSEL; FOR ALL OF THE ABOVE, WHETHER PRE-EXISTING OR NOT AND WHETHER THE CLAIMS RESULT FROM CONTRACT, WARRANTY, INDEMNITY, TORT, EXTRA-CONTRACTUAL OR STRICT LIABILITY, QUASI CONTRACT, LAW, OR OTHERWISE.

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| | | <p><u>WHETHER THE CLAIMS RESULT FROM CONTRACT, WARRANTY, INDEMNITY, TORT, EXTRA-CONTRACTUAL OR STRICT LIABILITY, QUASI CONTRACT, LAW, OR OTHERWISE.</u></p> | |
| | | <p>Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for arty drilling, completion, well treatment, production or other financial decision, or any procedure involving any ask to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation.</p> | |
| | | <p><u>Contractor will endeavor to transmit data to Company as accurately and securely as practicable in accordance with current industry practice. However, Contractor does not warrant the accuracy of data transmitted by electronic processes, and will not be responsible to Company for accidental or intentional interception of such data by others</u></p> | |
| | | <p><u>Comments :-</u> This disclaimer clarifies that many of Baker Hughes’ services are based on subjective decisions (e.g., opinions based on experience, not facts that can be immediately scientifically verified) or on indirect information sources (e.g., data supplied by third parties). Therefore, Baker Hughes can only offer the customer the benefit of its employees’ professional judgment, and not a guarantee of accuracy. Baker Hughes cannot guarantee the opinions and accuracy of work that it provides, as these opinions may differ from expert to expert. No method of data transmission can be said to be entirely accurate or secure, and Baker Hughes cannot therefore accept liability for any data which is lost or compromised</p> | |

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| | <p>during transmission, especially as such transmission will depend on various third party systems and infrastructure over which Baker Hughes has no control.</p> | |
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| Query on SoW | OIL Remarks |
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| How many wells penetrate target aquifers? | Around 51 wells are present penetrating multi stack reservoirs and aquifers out of which few wells have penetrated the deeper aquifers |
| Is Geomechanical data available for caprocks of these aquifers? | Few geomechanical parameters are available for 1 caprock. Geomechanical test needs to be carried out by the successful bidder (refer 5.4- Phase-I) |
| Will water PVT available for the study? What kind of water sample analysis data are available for Saline aquifers ? | Salinity data is available for formation water. |
| What is the acreage for each field ? | Total study area is around 250 sq kms |
| Does the previous static/dynamic models capture/describe target aquifers? will they be provided as reference ? | No |
| Objective is to consider saline aquifers as well as Hydrocarbon bearing reservoirs or just saline aquifers? | Both Saline aquifers and reservoirs for screening |
| The overlying and underlying formations will not be history matched, please confirm? | Your understanding is correct |
| Contractor and build and conduct analysis/modeling on either of the software platforms – CMG or ECL/Petre RE – correct ? or are there certain limitations ? | Refer Point 5.5 A of SoW/TOR |
| Volume of CO2 production expected for storage (required CO2 sequestration rate per day) | Maximum 220 tons per day of CO2 production when gas production is 0.5 MMSCMD. However, if the production increases based on market demand, volume of CO2 will increase. Maximum Potential of plant will be 1.5 MMSCMD of gas after augmentation out of which 23-25% is CO2 . |
| What are impurity levels expected in the stream? | CO2 purity will be in the range of 80-94% . However final composition will be shared based on a current study undertaken. |
| How many welltest interpretations available? | Around 5 well test are available for Tanot and Dandewala |
| Is SCAL data available? If yes, which lab experiments are available? | No SCAL Data Available |
| Request change in Payment Schedule so that contractor cash flow is not restrained. | |

| Phase | Description and Payment (% of Study cost) | |
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| I | Kick-off meeting -- 10% payment | |
| II | Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2 -----40% Payment | Not Considered |
| II | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of conceptualisation of -----30% Payment | |
| III | Submission of Final Report and Presentation ---- 20% Payment | |

4. Queries from M/s Computer Modelling Group:

| Page no. | Tender Clause no | Query | OIL Remarks |
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| Scope of work > 5.5 > A. Detailed study through modelling > xii | The approach to be followed for carrying out the reservoir simulation study (Black Oil or Compositional) to be finalized in agreement with OIL considering data availability and nature of the candidate reservoirs/aquifers. | Change: The approach to be followed for carrying out the reservoir simulation study has to be on compositional simulator. | Compositional Simulation for best 2 reservoirs in Phase-II. Amendment issued |
| Table 3 Time Schedule | Total time 30 Weeks | Change: Request timeline extension to 70 weeks. | Not considered |

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| Scope of work > 5.5 > A. Detailed study through modelling | | <p>Add: Simulator should be equipped to handle the following:</p> <ul style="list-style-type: none"> • CO2 phase behaviour in the supercritical state • Solubility of CO2 in brine (including Density driven flow) • Residual gas trapping (hysteresis) • Geochemistry and Ionic trapping (including Carbonic Acid generation, water vaporization, salt precipitation) • Mineralization | Please refer 5.5 deliverables point no. vii |
| BEC-BRC > 5.0 QUALITY & COST BASED SELECTION (QCBS) METHODOLOGY > Table | | <p>Add: Experience of reservoir simulator used in the dynamic modelling</p> <p>15 points for more than 150 SPE papers 10 points for more than 100 SPE papers 0 points for less than 100 SPE papers</p> | Not considered. |
| BEC-BRC > 5.0 QUALITY & COST BASED SELECTION (QCBS) METHODOLOGY > Table | | <p>Add: Experience of reservoir simulator for CCS used in the dynamic modelling</p> <p>15 points for 15 + years 10 Points for 10 years</p> | Not considered. |

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| <p>Scope of work > 5.5 > A. Detailed study through modelling > xi</p> | <p>Detailed technical study involving Static and Dynamic modeling/workflow incorporating geo-mechanical parameters (coupling with geo-mechanical model) to evaluate the capacity and security of containment for a defined long term storage plan (100 years). The static model should also consider the adjoining overlying and underlying structures for dynamic simulation. In the static model, detailed structural framework, facies/rock type and property modelling need to be incorporated. Then dynamic model needs to be constructed after detailed analysis of available PVT and Core analysis data. In absence of any data, the properties may be generated using industry standard correlations based on analogous data from neighboring reservoirs. The grid resolution for the dynamic model should be 50x50x0.5 m or lesser.</p> | <p>Remove: The grid resolution for the dynamic model should be 50x50x0.5 m or lesser.</p> | <p>Not considered.</p> |
| <p>Scope of work > 5.5 > A. Detailed study through modelling > xiii</p> | <p>The geo-mechanical model may be constructed using an industry standard 3D geo-mechanical modelling software</p> | <p>Add: Geomechanics simulator should be part of the reservoir simulator</p> | <p>Not considered.</p> |
| <p>Scope of work > 5.5 > A. Detailed study through modelling > xiii>J</p> | <p>a. Run multiple reservoir simulations in which parameters with high uncertainty are varied over the range of values. Different scenarios of CO2 injection for different operating constraints to be simulated and evaluated, representing high estimate (aggressive), mid estimate (realistic) and low estimate scenarios.</p> | <p>Add: Uncertainty modelling must use monte carlo in addition to other relevant calculations.</p> | <p>Industry standard practice needs to be followed</p> |

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| BRC/BEC > 2.1 Technical Evaluation Criteria > 2.1.1 | The bidder must be an Oil and Gas Service Provider and must have an ex-perience in consultancy work related to oil and gas business in sub surface or sur-face related studies for a period of at least 7 (Seven) years from the original bid clos-ing date. | Change: The bidder must be an Oil and Gas Service Provider and must have an ex-perience in consultancy work related to oil and gas business in sub surface or sur-face related studies for a period of at least 3 (Three) years from the original bid clos-ing date. | Not considered. |
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5. Queries from M/s Apeiron:

| Tender Clause No. | Queries | OIL Remarks |
|---|---|----------------|
| 2.1 TECHNICAL EVALUATION CRITERIA: | Apeiron Management has less than 7 (seven) years of experience. The Indian company registered in July 2018, will not be able to bid despite having the expertise. | Not Considered |
| 2.1.1 The bidder must be an Oil and Gas Service Provider and must have an experience in consultancy work related to oil and gas business in sub surface or surface related studies for a period of at least 7 (Seven) years from the original bid closing date | Hence request for considering experience of criteria 5 (five) years instead of 7 years | |

6. Queries from M/s DeGolyer & MacNaughton:

| Tender Clause | Query | OIL remarks |
|---|--|------------------------------|
| Clause 12.0 – Instruction to Bidder - EMD/Bid Security Clause 13.0 – Exemption to EMD/Bid Security | <p>a) DeGolyer and MacNaughton India Pvt. Ltd. is a company registered under Indian Company Act, having a valid UDYAM Registration Certificate. We, shall be submitting our bid based upon the technical experience and financial strength of our Parent Company DeGolyer and MacNaughton Corp., (a Non MSE). Kindly advise will we need to submit EMD/Bid Security.</p> <p>b) Clause 13 mentions “applicable as per latest Govt. Mandate”. Kindly provide clarity on the criteria for exemption of submission of EMD/Bid Security</p> | To submit EMD as per tender. |

Annexure-IB

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| Bid Evaluation Criteria (BEC) – Clause 2.1.2 – Technical Experience | For relevant experience to be proven. Due to Non Disclosure Agreements signed amongst the parties, we shall not be able to share the contract documents for jobs conducted in the Middle East We can provide the 1st page of the contract and CEO certificate to substantiate the experience. Kindly advise. | Please Refer to clause no 2.1.2 of BEC-BRC. Any sensitive data may be masked except SoW, Contract No. |
| Bid Evaluation Criteria (BEC) – Clause 2.1.2 – Technical Experience | Will ongoing projects be counted towards the experience evaluation. D&M is presently running 3 ongoing projects | Ongoing projects will not be considered for Bid evaluation |

7. Queries from M/s Halliburton:

| Sl. No. | Tender Clause No. | Bidder Query | OIL Remarks |
|---------|----------------------------------|---|---|
| 1 | PART – 2/ Clause No. 4.0 | Bidder request mobilization period of 06 weeks from the date of issue of Letter of Award (LOA). | Mobilisation period has been increased from 2 weeks to 3 weeks for better participation and ease of study execution. Amendment issued |
| 2 | Part-3/Section-II/Clause No. 4.0 | Bidder request following information from OIL on data availability. | |
| | | 1. What level of interpretation will be made available for the 3D and 2D seismic data? Number of horizons, faults, coverage? | 2 horizon interpretation along with major fault interpretation is available |
| | | 2. Do well log data display well tops and current interpretation? | Well tops are available in all the wells and log interpretation (pdf format) is available in most of the wells |
| 3 | Part-3/Section-II/Clause No. 5.1 | 3. Conventional core analysis: only 1 report is available for 1 well. What data and information will be made available for the remaining 5 wells? | Basic geological information |
| | | Bidder request following information from OIL on 3D seismic data. | |
| | | 1. The SOW refers to the study area being 'well covered'. Does this mean that the study area has full coverage of 3D seismic data? | Yes. Covered with 3D seismic. |

Annexure-IB

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| | | 2. Which vintage data to be used in this study? | Latest data to be used |
| 4 | Part-3/Section-II/ Clause No. 3.1, 5.2 and 5.3 | Bidder request OIL to confirm only saline aquifers to be considered in the whole study. | Saline Aquifers and reservoirs are the target areas for initial screening for permanent storage of CO2 in Jaisalmer Basin if found suitable |
| 5 | Part-3/Section-II/Clause No. 5.4.A.xi | 1. Bidder request OIL to provide details of the core condition and storage history? | Core condition is good to moderate. |
| | | 2. Please confirm if contractor will be responsible to plan and perform rock mechanics laboratory testing? | Refer point 5.4 A (x),(xi) in the tender document |
| | | 3. Please confirm if there is any geographical restriction for rock mechanics testing (inside India only, or samples can be shipped out of India) if required? | There is no such restriction. However, bidder must ensure timely completion of the test for the subsequent use of the generated data/result during modelling phase as per the SoW. |
| 6 | Part-3/Section-II/Clause No. 5.4.B.ii | Bidder request OIL to clarify on existing CBL logs to be used in this study and no legacy wells to be logged unless it is a recommendation of this feasibility assessment. | Existing CBL-VDL to be used |
| 7 | Part-3/Section-II/Clause No. 5.4.B | Bidder request OIL to clarify on the following: | |
| | | 1. Are detailed well by well analyses required at this Feasibility stage or will a preliminary risk analysis based on well groups be sufficient? | A detailed evaluation of downhole conditions including casing and cementation shall be carried out to prevent any risk of leakag.Refer point 5.4 B |
| | | 2. Are all the detailed reports about the offset wells available in digital format? | WCR are available in digital format |
| | | 3. Any known well integrity issues recorded/reported in these wells? | Casing damage, casing pressures have been reported in some of the wells. |
| | | 4. How many P&A wells are among the total well inventory? | Around 15 wells are abandoned in Tanot and Dandewala |
| | | 5. Details of the materials like casing, tubing, packers, wellhead and well tree used in the well are available. | All the available data will be provided for the study |
| | | 6. Seal study: Are pore pressure profiles available? | Not Available |
| | | 7. Pressure data: Are pressure data to be made available across study area and from adjacent wells? | All the recorded pressure data will be made available for the study |

| <p>8</p> | <p>Part-3/Section-II/Clause No. 5.4.C</p> | <p>Bidder request OIL to confirm that the well integrity and detailed plume assessment to be undertaken on the top 5 sites identified during Phase I - Task A</p> | <p>Yes. Refer SoW for details.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---|---------------|--|--------------|---|----------|---|------------------|-----|--|-----|--|-----|-----------------------------------|----|---|----|---|----|---|----|--|----|---|-----|------------------|-----|------------------|-----|--------------------|-----|------------------------|-----|---|-----|-------------------|-----|--|-----|-----------------------|
| <p>9</p> | <p>Part-3/Section-II/Clause No. 7.3</p> | <p>Bidder proposes the following timeline break-up to OIL:</p> <p>Phase 1: Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2 -12 weeks.</p> <p>Phase 2: Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2-16 weeks.</p> <p>Phase 3: Submission of Final Report and Presentation - 02 Weeks.</p> | <p>Timeline for individual phase may be modified to some extent and as agreed to OIL during kickoff meeting. However, the Bidder must complete the project within the Project timeline of 30 weeks without any extension.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>10</p> | <p>Part-3/Section-II/Clause No.11.1</p> | <p>Bidder requests OIL to consider monthly Invoicing/Payment based on deliverables as per below table.</p> <table border="1" data-bbox="528 1137 1061 1453"> <caption>Table 5: Payment Schedule</caption> <thead> <tr> <th rowspan="2">Phase/Description</th> <th colspan="2">As per Tender</th> <th>HAL proposal</th> </tr> <tr> <th>Payment after completion of (% of Study cost)</th> <th>Activity</th> <th>Payment after completion of (% of Study cost)</th> </tr> </thead> <tbody> <tr> <td>Kick-off Meeting</td> <td>10%</td> <td></td> <td>10%</td> </tr> <tr> <td rowspan="5">Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2</td> <td rowspan="5">25%</td> <td>Geological & Reservoir Assessment</td> <td>5%</td> </tr> <tr> <td>Well Integrity assessment of Legacy Wells</td> <td>5%</td> </tr> <tr> <td>Detailed Assessment of CO2 Plume movement and leakage</td> <td>5%</td> </tr> <tr> <td>Detailed evaluation of CO2 storing capacity of the identified saline aquifer/ reservoir</td> <td>5%</td> </tr> <tr> <td>Compression, Transportation & Injection Facility</td> <td>5%</td> </tr> <tr> <td rowspan="4">Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2</td> <td rowspan="4">25%</td> <td>Seismic analysis</td> <td>10%</td> </tr> <tr> <td>Static modelling</td> <td>10%</td> </tr> <tr> <td>Dynamic Simulation</td> <td>10%</td> </tr> <tr> <td>3D Geomechanical study</td> <td>10%</td> </tr> <tr> <td rowspan="2">Submission of Final Report and Presentation</td> <td rowspan="2">40%</td> <td>Project Economics</td> <td>15%</td> </tr> <tr> <td></td> <td>10%</td> </tr> </tbody> </table> | Phase/Description | As per Tender | | HAL proposal | Payment after completion of (% of Study cost) | Activity | Payment after completion of (% of Study cost) | Kick-off Meeting | 10% | | 10% | Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2 | 25% | Geological & Reservoir Assessment | 5% | Well Integrity assessment of Legacy Wells | 5% | Detailed Assessment of CO2 Plume movement and leakage | 5% | Detailed evaluation of CO2 storing capacity of the identified saline aquifer/ reservoir | 5% | Compression, Transportation & Injection Facility | 5% | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2 | 25% | Seismic analysis | 10% | Static modelling | 10% | Dynamic Simulation | 10% | 3D Geomechanical study | 10% | Submission of Final Report and Presentation | 40% | Project Economics | 15% | | 10% | <p>Not Considered</p> |
| Phase/Description | As per Tender | | | HAL proposal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Payment after completion of (% of Study cost) | Activity | Payment after completion of (% of Study cost) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kick-off Meeting | 10% | | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2 | 25% | Geological & Reservoir Assessment | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Well Integrity assessment of Legacy Wells | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Detailed Assessment of CO2 Plume movement and leakage | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Detailed evaluation of CO2 storing capacity of the identified saline aquifer/ reservoir | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Compression, Transportation & Injection Facility | 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2 | 25% | Seismic analysis | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Static modelling | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Dynamic Simulation | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3D Geomechanical study | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Submission of Final Report and Presentation | 40% | Project Economics | 15% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

8. Queries from M/s SLB:

| S/ N | Section / Clause | Queries | OIL Remarks |
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| PART 2 – BID EVALUATION CRITERIA | | | |
| 1. | | Bidder requests OIL to please clarify if the Consultant selected for the “Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualization of surface facilities” will have the opportunity to participate in the tender for the execution stage of the scope? This includes scenarios where OIL releases a separate tender specifically for the same requirement. | The bidder who is selected for the “Screening & Evaluation of identified formations with saline Aquifers/ Reservoirs for permanent storage of CO2 and conceptualization of surface facilities” will not have the opportunity to participate in the tender for the execution stage of the scope as per Company Policy. |
| 2. | B (iii) | (iii) The bidder can bid based on the experience of maximum 02 sister subsidiary /co-subsi-dary companies. One sister subsidiary /co-subsi-dary each for point (i) and (ii) of clause 2.1.2 mentioned above will be allowed, provided all the above-mentioned criteria of Clause B are complied. | Not considered |
| 3. | 3.12 | The documents submitted in this regard, have to be certified and authenticated by the CEO or Equivalent of the company/authorized signatory. The mentioned experience for the team members should be reckoned from the original bid closing date. | Authorized signatory may be CEO or Equivalent of the company. This shall also include India head of the company. |
| 4. | QCBS | Bids qualifying as per terms of Technical Criteria (Para 2.0, 2.1.1 & 2.2.2 above), Core Team Members (Para 3.0 above), Mobilization (Para 4.0 above), Financial Criteria (Para 5.0 above) and Commercial Criteria (Para 6.0 above) shall be eligible for this evaluation. | Document Submission requirements will be governed by BEC clause. The bidder can bid based on the experience of maximum 02 sister subsidiary /co-subsi-dary companies for BEC/BRC and Project credential of QCBS. |
| PART 3 GENERAL CONDITIONS OF CONTRACT | | | |
| 5. | 14.6 | Please amend the clause below: | |

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| | | Contractor/Consulting Firm shall also inform the Company at least 60 30 days in advance regarding the expiry cancellation and/or changes in any of such documents & ensure revalidation/renewal, etc., as may be necessary well in time. | Not considered |
| 6. | 14.9 PRINCIPAL ASSURED | Please replace the clause with the below: | Not considered |
| | | <u>Oil India Limited is to be named additional insured on the insurance policies, (except in case of Workmen’s Compensation / Employer’s Liability Insurance) limited only to the extent of liabilities assumed by Contractor/ Consulting Firm under this Contract.</u> | Not considered |
| 7. | 14.1 Waiver of Subrogation | Please amend the clause below: | |
| | | <u>Except for the Workmen’s Compensation / Employer’s Liability Insurance for workmen engaged under this contract which have been obtained by the Contractor/Consulting Firm as their corporate policy/rules, where OIL is neither required to be present as principal assured or additional assured,</u> all insurance policies of the Contractor/ Consulting Firm with respect to the operations conducted hereunder as set forth in clauses hereof, shall be endorsed by the underwriter in accordance with the following policy wording: | Not considered |
| | | “The insurers hereby waive their rights of subrogation against Oil India Limited or any of their employees or their affiliates and assignees <u>to the extent of the indemnities undertaken by the Contractor/ Consulting Firm under this Contract</u> ” | Not considered |

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| 8. | 14.12 COMPLIANCE WITH SEC 25(1), OF "THE GENERAL INSURANCE BUSINESS (NATIONALIZATION) ACT 1972" | Please delete the entire clause. | |
| | | Bidder requests deletion of this provision as it is not relevant for scope envisaged in this tender. | Not considered |
| 9. | 14.13 LOSS PAYEE CLAUSE | Please delete the entire clause. | Not considered |
| | | Bidder requests deletion of this provision as it is not relevant for scope envisaged in this tender. | Not considered |
| 10. | 14.16 ii) | Please delete the obligation to maintain this insurance. | |
| | COMMERCIAL GENERAL LIABILITY INSURANCE | The scope of work for this present tender is office-based study and not well site services, hence this insurance is not applicable. | Not considered |
| 11. | 14.16 iii) COMPREHENSIVE GENERAL AUTOMOBILE INSURANCE | Please delete the obligation to maintain this insurance. The scope of work for this present tender is office-based study and not well site services, hence this insurance is not applicable. | Not considered |
| | 14.16 iv) | Please delete the obligation to maintain this insurance. | |
| 12. | CARRIER'S LEGAL LIABILITY INSURANCE | The scope of work for this present tender is office-based study and not well site services, hence this insurance is not applicable. | Not considered |
| | 14.16 v) | Please delete the obligation to maintain this insurance. | Not considered |
| 13. | PUBLIC LIABILITY ACT POLICY | The scope of work for this present tender is office-based study and not well site services, hence this insurance is not applicable. | Not considered |
| | 14.16 vi) PRADHAN MANTRI SURAKSHA BIMA YOJNA (PMSBY) AND PRADHAN MANTRI JEEVAN JYOTI BIMA TOJANA (PMJJBY) | Please delete the obligation to maintain this insurance. We will not be using any contractors for the purpose of this Scope of Work. Accordingly, we request OIL to please delete the obligation to maintain this insurance. | Not considered |

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| 15. | 14.16 vii) | <p>Please delete the obligation to maintain this insurance.</p> <p>The scope of work for this present tender is office-based study. We will not be providing any equipment for this job. Hence, we request deletion of this insurance requirement.</p> | Not considered |
| 16. | 19.0 RISK PURCHASE | Please amend as follow: | Not considered |
| | | <p>In the event, CONTRACTOR/Consulting Firm's failure to provide the services as per the Contractual scope, terms and conditions, COMPANY (OIL) reserves the right to request CONTRACTOR/Consulting Firm to remediate hire the services from any other source at the CONTRACTOR/Consulting Firm's risk & cost and the difference in cost shall be borne by the CONTRACTOR/Consulting Firm. 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/Consulting Firm.</p> | |
| 17. | 32 | Please amend the clause as below: | Not considered |
| | SET-OFF | <p>Any sum of money due and payable to the CONTRACTOR/Consulting Firm (including Performance Security refundable to them) under this or any other Contract, whether in progress or in future, may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the CONTRACTOR/Consulting Firm with OIL (or such other person or persons contracting through OIL), <u>after giving 7 days prior written notice to Contractor/Consulting Firm."</u></p> | |
| 18. | 45 | Please amend the clause as below: | |

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| | <p>TO DETERMINE THE CONTRACT</p> | <p>In such an event (i.e. termination under Article No. 44.4 to 44.9 44.8 above), the contract shall stand terminated and shall cease to be in force from the date of such notification by the COMPANY. Thereafter the CONTRACTOR/Consulting Firm shall stop forthwith any of the work then in progress, except those work which the COMPANY may, in writing, require to be done to safeguard any property or work, or installations from damages, and the COMPANY may take over the remaining unfinished work of the CONTRACTOR/Consulting Firm and complete the same through a fresh CONTRACTOR/Consulting Firm or by other means, at the risk and cost of the CONTRACTOR/Consulting Firm, and any of its sureties if any, shall be liable to the COMPANY for any excess cost occasioned by such work having to be so taken over and completed by the COMPANY <u>provided that such excess cost shall be limited to 50% of the cost of defaulted work mentioned in the Contract</u> over and above the cost at the rate/cost specified in the schedule of quantities and rates/prices.</p> | <p>Not considered</p> |
| <p>19.</p> | <p>46.0 WITHOUT DETERMINING THE CONTRACT:</p> | <p>Please amend the clause as below:</p> | |
| | | <p>In such an event (i.e. termination under Article No. 44.4 to 44.9 44.8 above), the COMPANY may take over the work of the CONTRACTOR/Consulting Firm or any part thereof and complete the same through a fresh CONTRACTOR/Consulting Firm or by other means, at the risk and cost of the CONTRACTOR/Consulting Firm. The CONTRACTOR/Consulting Firm and any of its sureties are liable to the COMPANY for any excess cost subject to a maximum of the contract value payable for the defective work which needs corrective action <u>provided that such excess cost shall be limited to 50% of the cost of defaulted work mentioned in the Contract.</u> over and above the cost at the rates specified in the schedule of quantities and rates/prices, occasioned by such work having been taken over and completed by the COMPANY.</p> | <p>Not considered</p> |

SPECIAL CONDITIONS OF CONTRACT

(PART-3-SECTION-III)

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| 20. | Insurance | <p>The contractor at his own cost shall arrange, secure and maintain all six insurances listed under GCC 14.16 throughout the contract period. However, if contractor feel that some of these insurances are not applicable for this contract as per the nature of service than contractor may request to OIL for exemption of the same with proper reasoning along with proper valid documentation and obtain the approval from OIL for exemption of such insurances otherwise, it will be taken as non-compliance.</p> <p>View above, successful bidder shall make their representation to OIL and obtain approval, if any insurance is not required for such service.</p> | Not considered |
| 21. | Patent Indemnity | <p>Please amend the clause below:</p> <p>Contractor agrees to indemnify Company and pay any costs and damages finally awarded for claims based on an actual or alleged infringement of any parent patent, copyright or registered trademark granted or registered at the effective date of this Contract in the country of original delivery or intended destination of the Software provision of Services and resulting from the use of the Software Service in accordance with its intended purpose as specified in technical specifications of the Software contract.</p> <p>However, Contractor will not be liable for Patent, copyright, registered trade mark or similar infringement that arises (i) Contractor's compliance with Company's specifications, where such specifications require Contractor to modify a Software the service (ii) the combination of the Software Service with other software, products or services not furnished or approved in writing by Company (iii) any unauthorized addition to or modification of the Software Service (iv) any use of the Software Service in the performance of a method or process (practice of a process),</p> | <p>Considered. Amendment issued</p> <p>Considered. Amendment issued</p> |

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| | | <p>except where such practice is solely completed by or within the Software Service (v) the combination of the Software Service with other software services where, but for the combination, there would be no infringement.</p> | |
| | | <p>Company will defend and hold Contractor harmless against any expense, judgment or loss for alleged infringement of any patent, copyright or other proprietary right which results from a claim based upon (i), (ii), (iii), (iv) & (v).</p> | <p>Considered. Amendment issued</p> |
| 22. | Data Liability | <p>Please amend the clause below:</p> | |
| | | <p>OIL shall at all times be responsible for the product(s) and data provided by OIL and for providing back up for all software applications</p> | <p>Considered. Amendment issued</p> |
| | | <p>and data files stored in the software. It is clearly understood that Contractor has no liability for loss, damage, or destruction to any Company data, except in the case of intentional misconduct, in which case Contractor's sole Liability is limited to reloading the data from the most recent database back-up. In no event shall Contractor ever be liable for reacquiring OIL's data.</p> | <p>Considered. Amendment issued</p> |

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| 23. | Interpretation Liability | <p>Please amend the clause below: All interpretations using the Software, and all recommendations or reservoir descriptions based upon such interpretations, are opinions based on inferences from measurements and empirical relationships and on assumptions, which inferences and assumptions are not infallible, and with respect to which competent specialists may differ. In addition, such interpretations, recommendations, and reservoir descriptions may involve Company opinion and judgment. Company has full responsibility for all interpretations, recommendations and reservoir descriptions utilizing the software. Contractor cannot and does not warrant the accuracy, correctness or completeness of any interpretation, recommendation or reservoir description. Under no circumstances should any interpretation, recommendation or reservoir description be relied upon as the sole basis for any drilling, completion, well treatment, production or other financial decision, or any procedure involving any ask to the safety of any drilling venture, drilling rig or its crew or any other individual. Company has full responsibility for all such decisions and for all decisions concerning other procedures relating to the drilling or production operation.</p> | <p>Considered. Amendment to be issued</p> |
| | | | |
| 24. | Import and Export Control | <p>Please add the new clause below:</p> | |
| | (New Clause) | <p><u>Both Parties shall strictly comply with, and adhere to, all applicable U.S. and non-U.S. laws and regulations pertaining to economic sanctions laws, trade, import and export control. In the event that at the time when this Contract comes to existence or any moment thereafter, any trade compliance laws, regulations or restrictions of any kind, substantially adversely affect the performance of Parties or their affiliated companies under the Contract, the Parties shall seek in good faith to find a mutually acceptable solution to minimize such adverse effects.</u></p> | <p>Not considered</p> |

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| | | <u>In the absence of a mutually acceptable solution, each Party, reserves the right to terminate the Contract, and the other Party agrees that it shall not be considered a breach of this Contract and hence it shall have no legal cause of action, and hereby waives any right to assert the same.</u> | |
| 25. | Change in laws (New clause) | Please add the new clause below: <u>Notwithstanding anything else contained herein, if subsequent to the date of submission of Bid, any new or additional taxes and similar levies in nature and any increased in the direct cost ,resulting from future legislation or interpretation of existing or future legislation, including and not limited to, goods and service tax, sales tax, customs duties, R&D cess, works contract tax, services tax, corporate tax, octroi, entry taxes etc. authorities which Contractor is bound to pay in respect of the payments received by Contractor in pursuance of this agreement, then such new/additional taxes/levies will be borne by Company. Additionally, any upward change in the rates of the existing taxes/levies shall be to the account of Company. In case of reduction or exemption from any taxes/ levies, benefit shall be passed on to the Company.</u> | Refer point 39 of part - 3 (General conditions of contract) of tender document |
| 26. | Prices exclusive of GST | Request company to add below clause for clarity: <u>Prices quoted by the bidder are exclusive of Goods and Service Tax (GST). GST rate will be specified as per respective SAC code for the services.</u> | If price quoted are exclusive of GST, then GST rate has to be clearly specified by the bidder |
| 27. | | <u>Table 5: Payment Schedule</u> Phase Phase-I -- Payment of 10% of study cost Phase-II -- Payment of 25% of study cost Phase- III -- Payment of 25% of study cost Report Submission -- Payment of 40% of study cost | Not Considered |

| Scope of Work | | | |
|---------------|-----------------------|---|--|
| 28. | | OIL has selected 4 formations (Annexure-I) consisting of Saline aquifers/reservoirs in Tanot and Dandewala Field of Rajasthan for feasibility study to evaluate suitability for permanent Storage of CO2. | Considered. Amendment issued with the Annexures |
| | | Annexure-I & II is missing in the tender docket, bidder request OIL to share the same for analysis. | |
| 29. | SOW , Page # 5 | In total how many reservoirs/aquifers to be screened from Tanot & Dandewala field of Jaisalmer Basin | 5 formations (Annexure-I) has been shortlisted for the study. The compartmentalisation study of reservoirs/aquifers is a part of the scope of work |
| 30. | SOW , Page # 5 | Please confirm Aquifer water quality lab reports are available | Salinity data is available |
| 31. | SOW, 18, point "a" | How many CO2 injection scenarios required. | Please refer Point 5.5 of Scope of Work |
| 32. | SOW, 20, point "Xi" | What level of CO2 impurity to consider for the study. How many cases please specify the CO2 impurities. How many cases to consider. | CO2 purity range of around 80- 95% should be considered for a sensitivity. As per requirement during the study |
| 33. | SOW, 20, point "Xvii" | Please specify current regulatory constraints | All constraints as per prevailing Govt. regulations and norms to be considered during the study. |
| 34. | | The study to be carried out in country or its acceptable to carryout in SLB Global Consulting Hub. | The study is to be carried out at the Service Provider's work facility as per the bidding criteria. Please refer Clause 8.0 of SoW (work association) for details. |
| 35. | | Is detailed well integrity required on all existing wells (including abandoned) or this task be restricted to the 2 reservoirs / Aquifers carried forward to phase 2. | A detailed evaluation of downhole conditions including casing and cementation shall be carried out to prevent any risk of leakag. Refer point 5.4 B |

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| 36. | SOW, 17, point "Vii" | How many wells required to do near wellbore modeling. | As per requirement and mutually agreed during study |
| 37. | 4.0 Data Availability | What data will OIL provide to conduct drilling offset well analysis (e.g., End of Well Reports, Operational Reports and/or Daily Drilling Reports)? Or what offset well data is the Contractor expected to analyze for well design? | All available information will be provided |
| 38. | 4.0 Data Availability | Which logs are available from the existing petrophysical interpretation in the 45 wells? Are both the reservoir and seal covered in the existing petrophysical evaluation? | All basic triple combo logs are available in both reservoir and seal |
| 39. | 4.0 Data Availability | Will well markers be provided? | Yes |
| 40. | 4.0 Data Availability | What is the borehole quality in the wells of the three fields under evaluation? | Mostly good to moderate |
| 41. | 4.0 Data Availability | What type of core measurements are available for review of existing petrophysical evaluation? | Not available. |
| 42. | 4.0 Data Availability | What is the porosity-permeability range of the reservoirs/ saline aquifers under evaluation? | Porosity range 14-24%. Permeability of Lower goru is 0.6-1 md. For others to be evaluated based on industry standard correlation/analogy |
| 43. | 5.0 SOW | Are their known fluid compartments in the fields under evaluation? | 5 formations (Annexure-I) has been shortlisted for the study. However, compartmentalisation study of reservoirs/aquifers is a part of the scope of work |
| 44. | 5.4 A Geol & Rsvr Assessment | Could you confirm that a fresh petrophysical evaluation is required for 30 wells? Are these wells a subset of the 45 wells (that have well logs)? | Yes. |
| 45. | 5.4 A Geol & Rsvr Assessment | What about the remaining 15 wells (with reference to question above) - is a petrophysical analysis not required? And why? | Inhouse petrophysical interpretation is available in 15 wells but required review by the successful bidder |
| 46. | 5.4 A Geol & Rsvr Assessment | Is core data available for the seal formation? | Available in 1 formation of 1 well |

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| 47. | 5.4 A Geol & Rsvr Assessment | Is the seal (for each formation considered for storage) covered by well logs? | Yes. |
| 48. | 5.4 A Geol & Rsvr Assessment | How many wells have borehole image logs? How many wells have triple combo? How many wells have compressional and shear sonic logs? How many wells have magnetic resonance logs? | Borehole image log- 4 wells, Triple combo logs- almost all wells, Dipole sonic logs- 11 wells and no Magnetic resonance logs are available in the study area |
| 49. | 5.4 A Geol & Rsvr Assessment | Is petrophysical rock typing available for the reservoir and the seal for each reservoir/field under evaluation? | Not available. |
| 50. | 5.4 A Geol & Rsvr Assessment | Is a saturation height function/transform available for the reservoir and the seal for each reservoir/field under evaluation? | Not available. |
| 51. | 5.4 A Geol & Rsvr Assessment | Do the fields/reservoirs and seals have a core sedimentological study along with report? | Available in 1 formation of 1 well |
| 52. | 5.4 A Geol & Rsvr Assessment | What is the recovery factor for the HC reservoirs and how much is recovered already? | Refer Annexure -I |
| 53. | 2.0 Brief Outline of the field | What is the water depth? Do existing wells have surface or subsea wellhead? | All wells are onshore. Surface well head |
| 54. | 5.4-B Well integrity assessment of legacy wells | Could OIL elaborate on what is the required format or deliverable to fulfill the following, as per the SOW 5.4-B: "give recommendation on best well construction practices for CO2 Injector", "give recommendations on best practices and remedial measures", "provide remedial measures", "to provide recommendations on monitoring wells", etc. | Existing wells in the basin may be utilised as CO2 injector or monitoring well, if the reservoir is found feasible for CO2 storage. In such scenario, recommendations to be made regarding the remedial measures to make the well CO2 friendly (as the existing well completions are not CO2 compatible) . Similarly for new CO2 injector and monitoring well(s), recommendations for well completion in terms of metalurgy and best well construction practise needs to be incorporated. |

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| 55. | 5.4-B Well integrity assessment of legacy wells | Is there an applicable regulation or standard, specific to CO2 storage, to which the scope of work described in 5.4-B is required to adhere to? | All constraints as per prevailing Govt. regulations and norms to be considered during the study. |
| 56. | | Since fields are still in production do you (i) consider them as primary target for CO2 utilization -EGR (ii) to utilize water zone (structural flanks) (iii) to screen for any other potential formation that can be utilized for CO2 storage in post-production period? | Scope is specifically for permanent storage of CO2 immediately and not CO2 EOR or EGR. However, screening of all potential formation (reservoirs/aquifers) that can be utilized for CO2 storage has to be carried out as detailed in SoW. |
| 57. | 5.4 A | Seal integrity analysis is a result of 3D geomechanical model. What level of assessment beyond thickness is expected at this stage. | Refer to SOW for details |
| 58. | 5.4 A | Fault stability analysis is a result of 3D geomechanical model. At this stage goal is to avoid any potential leakage points. What level of assessment beyond distance to fault/seismicity is expected at this stage | All relevant parameters as described in SoW needs to be analysed during the different stages of the study |
| 59. | 5.4 A | For paleo tectonism a restoration model is necessary. Do you expect this to be done at this stage | All relevant studies as described in SoW needs to be carried out during the different stages of the study |
| 60. | | For Well integrity do you have cement logs for all wells (or for how many) | Cement logs are available for most of the wells |
| 61. | | Can you elaborate in more details what is the area (250km ²) of interest: field area. Is it the blue polygon in figure 1: location map? | Yes blue polygon |
| 62. | Phase 1 | Is it expected that surface feasibility study is initiated after screening and selection of top 5 sites (for top 5 sites) or for all sites | Please be guided by SoW |
| 63. | 5.4 C | How many wells have a well test data and interpretation and report? | Around 5 wells |
| 64. | 5.4 D | Is formation water salinity data available? | Formation water salinity data is available |

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| 65. | 5.4 D | From core: is formation cementation exponent and saturation exponent available? | No |
| 66. | 5.4 D | Is LAS format for petrophysical output deliverables acceptable for Oil India? | Yes. LAS and PDF both required. |
| 67. | 4.0 Data Availability (v) | How many wells have sonic and density logs (compression and shear)? | Dipole sonic log is available in 11 wells. Density logs are available in all major wells. |
| 68. | 4.0 Data Availability (vi) | Core data: How many wells have rock mechanics core data and what type of core data available | Available in 1 formation of 1 well |
| 69. | 4.0 Data Availability (vi) | Are there any image log and interpretation available? | Yes |
| 70. | 4.0 Data Availability (vi) | Any mini-frac (stress measurements) data available? | No. However, LOT/PIT is available in few of the wells. |
| 71. | 4.0 Data Availability (vi) | Any formation pressure measurements available? | The available pressure data will be provided |
| 72. | 5.4 B Well Integrity | This section needs to be moved to Phase 2 integrity assessment as well will be done only after reservoirs/aquifers are screened/selected in Phase 1 | Well integrity studies in Phase I has to be carried out so that this criteria can also be used for screening of 2 best reservoir for Phase-2 |
| 73. | 5.4 A iii | Please provide more details on the scope of seismic interpretation (Number/Extent of formations, aquifers, reservoirs, etc) | 2 horizon interpretation along with major fault interpretation is available. Requires review of existing interpretation and detailed interpretation of deeper formations, aquifers, reservoirs. |
| 74. | Contract Duration | The Contract is for a period of 30 weeks from the date of mobilization/effective date of the Contract. | Not Considered. Timeline for individual phase may be modified to some extent and as agreed to OIL during kickoff meeting. |

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| | | <table border="1"> <thead> <tr> <th>Phase</th> <th>Description</th> <th>Time Schedule</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>Screening & Evaluation of identified formations with saline Aquifers/ Res-ervoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2.</td> <td>16 weeks</td> </tr> <tr> <td>II</td> <td>Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2</td> <td>15 weeks</td> </tr> <tr> <td>III</td> <td>Submission of Final Report and Presentation</td> <td>4 weeks</td> </tr> <tr> <td colspan="2">Total</td> <td>35 weeks</td> </tr> </tbody> </table> | Phase | Description | Time Schedule | I | Screening & Evaluation of identified formations with saline Aquifers/ Res-ervoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2. | 16 weeks | II | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2 | 15 weeks | III | Submission of Final Report and Presentation | 4 weeks | Total | | 35 weeks | However, the Bidder must complete the project within the Project timeline of 30 weeks |
|--------------|--|---|----------------|-------------|---------------|---|--|----------|----|---|----------|-----|---|---------|--------------|--|-----------------|---|
| Phase | Description | Time Schedule | | | | | | | | | | | | | | | | |
| I | Screening & Evaluation of identified formations with saline Aquifers/ Res-ervoirs for permanent storage of CO2 and conceptualisation of surface facilities for Compression, Transportation, Injection for CO2. | 16 weeks | | | | | | | | | | | | | | | | |
| II | Modelling & Assessment of two shortlisted saline aquifers/ reservoirs and updation of surface facilities for Compression, Transportation, Injection for CO2 | 15 weeks | | | | | | | | | | | | | | | | |
| III | Submission of Final Report and Presentation | 4 weeks | | | | | | | | | | | | | | | | |
| Total | | 35 weeks | | | | | | | | | | | | | | | | |
| 75. | | All the team members including the Project Manager must be a regular fulltime employee of the Service Provider at the time of award of Contract till the end of the contract . Documentary evidence supporting it must be submitted for all the team members prior to mobilization. | Not Considered | | | | | | | | | | | | | | | |

9. Queries from M/s Nauvata Energy Transition (NET) Enterprise Private Limited:

| Clause No. | Nature of request | Remarks / Request | OIL Remarks |
|------------|--------------------------------------|---|----------------|
| 2.1.2 (ii) | Addition of red mark text in the SoW | Conceptualization of Surface facilities for Compression, Transportation and Injection of CO2 or experience of executing a carbon capture plant on EPC basis can qualify. Project under execution can be also considered. However, similar work carried out separately (i) and (ii) will also be considered towards experience. In that case, the bidder must carry out one similar work as described in 2.1.2 (i) and another as described in 2.1.2 (ii) above (total two projects). | Not Considered |
| | | If a bidder meets criteria (ii) then bidder can qualify provided the bidder hires a qualified subcontractor meeting requirement of (i) or | Not Considered |
| | | Presents CVs of the CCUS experts who have been hired by the bidder for the CCUS Feasibility studies as per the required experience criteria for the individual, which would be provided by OIL. OIL, at its discretion, would carry out a reference check of the individuals. | Not Considered |