

Expression of Interest

Ref No: OIL/FE/A.2.8/1144/2026

Date: 12/09/2026

LAST DATE OF SUBMISSION: 15:00 HRS (IST) OF 28/09/2026

DESCRIPTION: Notice Inviting “Expression of Interest (EOI)” for Hiring of Services for Tank Bottom Sludge Evacuation, Internal Cleaning of Tank by Robotic/ Mechanized Jet Cleaning Process, In-Situ Sludge Processing, Internal Inspection and Major Overhauling of Crude Oil / Hydrocarbon Storage Tanks at Installations of Oil India Limited.

1.0 PREAMBLE:

OIL INDIA LIMITED (OIL), a Government of India Enterprise under the Ministry of Petroleum and Natural Gas, is a premier upstream Maharatna E&P Company engaged in the business of exploration, production and transportation of crude oil and natural gas as well as production of LPG. Its Field Headquarters (FHQ) is at Duliajan, Dibrugarh, Assam, India and Corporate Office is at Noida, Uttar Pradesh, India. OIL’s operations are largely based in the North-Eastern parts of India, particularly in Assam and Arunachal Pradesh, besides operations in other parts of India and overseas.

Field Engineering Department, Oil India Ltd (OIL), invites EOI from experienced service providers for Tank Bottom Sludge Evacuation, Internal Cleaning of Tank by Robotic/ Mechanized Jet Cleaning Process, In-Situ Sludge Processing, Internal Inspection and Major Overhauling of Crude Oil / Hydrocarbon storage Tanks at Installations of Oil India Limited under a Comprehensive Contract.

2.0 OBJECTIVE:

This EOI is being floated to identify prospective and technically capable service providers available in the market and to obtain inputs regarding their technical capabilities, experience, deployment models and associated operational requirements.

The inputs received through the EOI will be used for suitably formulating and finalising the technical specifications, Scope of Work (SOW), qualification criteria, operational responsibilities, maintenance provisions, performance parameters and other relevant contractual provisions for the proposed hired service.

A tentative Scope of Work (SOW) for the proposed Hiring of Services is enclosed as Annexure-III. Prospective service providers are requested to provide comments on the tentative SOW, wherever considered necessary, based on their experience and industry practice.

3.0 DELIVERABLES / INPUTS EXPECTED FROM PROSPECTIVE SERVICE PROVIDERS:

- i) Company profile and organisational details, including relevant experience.
- ii) Details of similar contracts executed or currently under execution, including client, location, scope, duration and brief description of services.
- iii) Proposed technical methodology.
- iv) HSE management approach and compliance framework for applicable. statutory and regulatory requirements, including OMR, DGMS, OISD, Pollution Control Board and other applicable standards.
- v) Clause-wise response to the information and documents requested in Annexure-I, II and tentative SOW attached as Annexure-III
- vi) Indicative mobilisation period and implementation plan from placement of Letter of Award / mobilisation notice up to readiness for commencement of operations.
- vii) Any other technical, operational, contractual or commercial inputs considered useful for preparation of a comprehensive and competitive tender document.

The prospective service providers may be called for a technical presentation / interaction with OIL after submission of the EOI for further discussion and clarification of their proposed methodology, capability and comments on the tentative SOW.

4.0 SUBMISSION & ASSESSMENT

This EOI is for formulation of detailed specifications or identify specific characteristics for the subject matter of procurement only; it does not constitute a contract offer. However, Interested vendors should submit their capabilities and relevant credentials.

Applicants are required to submit the duly filled application form along with their supporting Documents/Certificates in the Annexure-I, II, III enclosed in this document.

OIL reserves the right to shortlist or reject any or all EOI responses without assigning reasons. Submission of EOI implies acceptance of all terms herein. Submission of an EOI does not confer any right or preference in the subsequent tendering process.

Interested parties are requested to submit their EOI in electronic format and/or hard copy to the following address by the date notified in the published EOI:

DGM-FIELD ENGG. (P&TF)
FIELD ENGG. DEPTT.
OIL INDIA LIMITED
P.O. DULIAJAN - 786602
DIST. DIBRUGARH, ASSAM, INDIA

Email ID(s): shekhar_sonowal@oilindia.in, manas.sonowal@oilindia.in, prasundas@oilindia.in,
Contact Nos.: 6000656519/6000702321

LAST DATE OF SUBMISSION: 15:00 HRS (IST) OF 28/09/2026

5.0 GENERAL NOTES:

- a) All documents / brochures submitted along with the EOI shall be self-certified, clear and legible.
- b) The EOI is liable to be ignored in case of submission of misleading, false or materially incomplete information.
- c) OIL reserves the right to accept, reject or ignore any or all EOIs, in whole or in part, without assigning any reason thereof.
- d) OIL may seek clarifications, additional documents, technical presentations or meetings with any respondent for better understanding of the proposal.
- e) The tentative SOW attached with this EOI is issued for obtaining market inputs and shall not be construed as the final tender specification or contractual scope.
- f) Any additional services deemed necessary for the project, should be proposed by the interested Service provider / Contractor and included in the proposal. OIL INDIA LIMITED (OIL) reserves the right to ignore any or all EOIs and also to curtail/ enhance the scope of work stated above, if required, without assigning any reason thereof.
- g) This EOI is not an invitation to bid and does not constitute any commitment by OIL to award a contract, issue a tender or reimburse any cost incurred by a respondent in preparation or submission of the EOI.
- h) All costs associated with preparation, submission, presentation and clarification of the EOI shall be borne by the respondent.

8.0 CONFIDENTIALITY:

All information provided by OIL during the EOI process shall be used solely for the purpose of preparing the response to this EOI and shall be treated as confidential to the extent applicable. Likewise, information submitted by the respondents will be used by OIL for technical assessment, market understanding and preparation of the subsequent tender document, subject to OIL's applicable policies and procedures. For any clarification regarding this EOI, prospective service providers may contact the designated OIL officials / email IDs to be specified at the time of issue of the EOI.

RESPONDENT'S/ APPLICANT'S GENERAL INFORMATION

Ref. No.....

Date:.....

Expression of Interest

(Ref: OIL/FE/A.2.8/1144/2026 Dated: 12/09/2026)

To,
DGM-Field Engg. (P&TF)
Field Engineering Department
Oil India Limited
Duliajan, ASSAM – 786602

1. Company Details

1	Company Name	
2	Status of Firm/ Company	Proprietorship Firm / Partnership Firm/ Company (Private or Public)
3	Number of years in the business	
4	Location	
5	Address	
6	Contact Person	
7	E-mail ID	
8	Mobile/Cell Phone No	
9	Have you provided the service to Indian Oil & Gas Companies (names of companies)	

2. Details along with copies of relevant documents, as applicable

1	Details of infrastructure available
2	Manpower details
3	Equipment, Machineries & testing details available, Product / Process Catalogues/ Manuals
4	Methodology to be adopted for the work of Tank Bottom Sludge Evacuation, Internal Cleaning of Tank by Robotic/ Mechanized Jet Cleaning Process, In-Situ Sludge Processing, Internal Inspection and Major Overhauling of Crude Oil / Hydrocarbon Storage Tanks

Name :.....

Signature

Designation.....

ANNEXURE-II

Expression of Interest

(Ref: OIL/FE/A.2.8/1144/2026 Dated: 12/09/2026)

PROFORMA FOR FURNISHING DETAILS OF PAST EXPERIENCE
DURING LAST 07 (SEVEN) YEARS

Sl. No.	Client Detail (Name and Address)	Details of Services Provided	Work Order / Contract no / Completion Certificate No.	Date of Start & Completion of Project

Name :.....

Signature

Designation.....

(All relevant documents including Work Order, Contract Document, Work Completion Certificate, etc. are required to be attached)

Expression of Interest
(Ref: OIL/FE/A.2.8/1144/2026 Dated: 12/09/2026)

Items/Service List

Sl. no.	ITEM DESCRIPTION
1	Evacuation, Cleaning, In-situ processing, Inspection and Major Overhauling of Crude Oil storage Tanks

The Scope of Work of Item – 1 is as under:

Scope of Work for Evacuation, Cleaning, In-situ processing, Inspection and Major Overhauling of Crude Oil storage Tanks.

a) Type	Both Fixed Roof and Floating Roof
b) Capacity	4500 KL - 20000 KL
c) Dimensions	Height: 11 m – 14 m , Diameter: 22 m - 50 m
d) Tank Heating Coil	The Tanks have inbuilt Heating /Steam Coil(s) ranging from 50 MM (2") to 100 MM (4") NB, inside the tank (at an approximate height ranging from 200 MM-1000 MM from the tank bottom plates varying with various capacities) for heating of the Tank Contents.
e) Estimated Tank Bottom Sludge (Per Tank)	400-2000 CuM The sludge indicated are tentative and are purely indicative Note: The actual quantity of the tank bottom sludge to be removed shall be jointly estimated by OIL's representative and Contractor/ Contractor's Representative before starting of the job by taking tank dips and payments shall be made as per actual sludge volume only. For all the measurement / payment purpose, quantity of material removed after pumping out the free oil/ water & less of cutter stock (solvent) shall be considered as sludge (i.e. Sludge = Total material removed after pumping free oil / water - cutter stock used).
f) Scope of Work	
SPECIAL CONDITIONS	1.0 Mobilization: 45 (Forty-Five) days Mobilization will be considered successful only after completion of the following activities: i) Initial Medical Examination (IME)/ Periodic Medical Examination (PME) records of the Contractor's personnel. ii) Transportation of all necessary equipment/ machinery from Contractor's premises to OIL's location(s). iii) Obtaining Labour Clearance Advice (LCA) by the contractor from OIL (as applicable). iv) Contractor shall have to submit authorized list of Contract Personnel, who will be engaged for the jobs including name of the Contractor's competent persons and every contact details. Documentary evidence of experience of the Contractor's Personnel as per the relevant SOW Clauses. v) Certificates of insurance along with an undertaking that they have taken all the insurance provisions as per the contract and as per the law and insurance regulation.

	The CONTRACTOR shall at all times during the currency of the contract provide, pay for and maintain the following insurance amongst others: a) Employees Compensation (EC) Policy or Employer's Liability Policy insurance , b) Commercial General Liability Insurance, c) Comprehensive General Automotive Liability; d) Carrier's Legal Liability Insurance, e) Public Liability Act Policy, f) Pradhan Mantri Suraksha Bima Yojana (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY) vi) The contractor must submit documentary proof of mandatory trainings/ certificates as per the relevant SCC clause. The Contractor shall, at its own cost, ensure that all personnel are trained and certified for their respective roles prior to mobilisation, and that such certifications remain valid for the entire contract duration. viz. (but not limited to): 1. First Aid (valid certificate from DGMS-recognised centre for mines/oil-mine work) for at least 02 contractor personnel per set of manpower to be deployed. 2. Permit-to-Work (PTW) including isolation and hot work for competent contractor personnel. 3. Working at Height, Confined Space Entry, PPE selection/use, Manual handling-as applicable to job role. 4. Medical Fitness as per statutory norms for mine/oil-field work; records to be available at site. vii) The Contractor has to obtain the necessary approval/ authorization required for handling /transportation/processing methodology/equipment's etc. from Pollution Control Boards (APCB/CPCB) under Hazardous Waste Management, Trans-boundary movement & Handling Rules and subsequent amendment thereof and certificate/approval to this effect is to be submitted within the Mobilization Period. 2.0 Labour Code Compliance: Contractor shall ensure compliance in accordance to all the four Labour Codes: i) To maintain the prescribed statutory registers, records, notices and displays and exhibit at the respective worksites. ii) To complete the mandatory registration on the Shram Suvidha Portal (https://shramsuvudha.gov.in/). It may be noted that such registration is mandatory for all contractors engaging contract labour under a Principal Employer, irrespective of the number of contract labour engaged. iii) Contractors engaging contract labours for executing contracts job at Oil India Limited shall: (a) issue Appointment Letters to all contract labours.
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	(b) ensure that the Appointment Letter contains all particulars prescribed under the Occupational Safety, Health and Working Conditions (Central) Rules, 2026. (c) maintain proper records of Appointment Letters issued to the Contract labours and shall produce the same before the competent authority whenever required. iv) Contractors (engaging contract labour under his administrative control) shall submit, on or before the 16th day of the succeeding month, to the concerned designated departmental officer, either through email or in physical form, the following documents: I. Form XV duly completed for the preceding month (Proforma of Form XV is enclosed) II. Documentary evidence of electronic payment of wages to all contract labour engaged under the contract III. Provident Fund (PF) challans/payment receipts in respect of all eligible contract labour Page IV. Employees' State Insurance (ESI) challans/payment receipts in respect of all eligible contract labour. Contractor is advised for strict compliance with the above instructions please. v) Contractor shall maintain a contract-wise and month-wise repository of Form XV, along with documentary evidence of electronic payment of wages and the corresponding Provident Fund (PF) and Employees' State Insurance (ESI) challans/payment receipts 3.0 Subcontracting I) Sub-contracting for STEAM COIL REPLACEMENT job is applicable. II) Sub-contracting of Petty Services: a) Sub-contracting for petty support service is applicable for this contract. b) 'Petty support services' as mentioned above may include the following: i) Hiring of Transport/ Logistics Services. ii) Hiring of Manpower services for Security, Cleaning, and other jobs of manual nature (except for the main services). c) The contractor and their sub-contractor must comply with all applicable regulation/ standards/ codes as per requirement of following statutory agencies, but not limited to: i) Equipment and materials in accordance with Director General of Mines Safety, India (DGMS). ii) Oil Mines Regulation, 1984 and relevant OISD standards. iii) Assam Pollution Control Board (APCB)/ Central Pollution Control Board (CPCB).
A. General:	1. Evacuation and Tank Bottom Sludge Removal by the method of Mechanized Jet Cleaning/ Robotic Cleaning Method. 2. After handing over of tank, the initial pumping of free flow liquid available in the tank to reach to a un-pumpable volume by using necessary pumps is to be done by the contractor before

commencing cleaning procedure by arranging all requirement such as pumps, hoses, all tools & tackles, manpower, any other equipment etc. After removal of free flow liquid, the sludge is to be removed by liquefying the heavy sludge and residue with diluents / cutter stock at ambient temperature.

3. The crude tank cleaning process shall necessarily involve shifting of complete sludge available inside the tank to temporary tanks / processing units etc to be supplied by the contractor by using vacuum pumps, vacuum truck system and mechanical cleaning of tank internals with minimum manual intervention.
4. Detailed procedure with equipment layout, bar chart for the total activity schedule for tank cleaning activity has to be submitted for approval before commencing the job to Engineer in charge of OIL. The contractor shall submit the Gantt Chart, S-Curve for individual tank based on the estimated quantities. The vendor shall clearly explain the methodology intended to be adopted for the work, as "Sludge recovery methodology", etc which will be evaluated by OIL along with their unpriced offer.
5. The above offered process should evacuate at least 90% of the Tank Bottom sludge from the Tank.
6. There must not be any requirement of "Man Entry" inside the Tank till 90% of Tank Bottom Sludge is evacuated.
7. The contractor shall install high capacity air eductor and compressor to normalize atmosphere inside the tank or ventilate the tank before persons with breathing apparatus are allowed to enter physically into the tank. The contractor shall be responsible for the provision of suitably qualified safety personnel, and breathing apparatus (BA) standby men as required during the works.
8. Carryout Water jet cleaning of all tank internal parts and prepare the tank for Carrying out Internal inspection & hot work inside the Tank by making it free of hydrocarbons.
9. All the equipment required to go inside the tank (i.e.: Zone-0) should have to be duly ATEX Zone-0 Certified.
10. Any equipment required to be installed inside the Tank Dyke wall should have to be duly ATEX Zone-0 Certified.
11. Any equipment for Controlling / Monitoring the process shall have to be installed outside the tank dyke wall.
12. The contractor has to ensure that all electrical equipment/panels or any other accessories inside the modules/ containers shall be intrinsically safe (Flame proof) and suitable for operation in the hazardous area of the Installation. If any of the above equipments or its accessories are found to be intrinsically unsafe the contractor, on his own cost has to make necessary arrangements to place the container outside the tank dyke and necessary cables for the same shall be laid by him.
13. Crude Oil, if required as solvent shall be supplied by OIL. However, the estimated amount of solvent required for Sludge Removal to be indicated by the bidder along with the offer. The crude oil required for the process shall be supplied by OIL, with an arrangement for proper measurement and custody transfer.
14. In-Situ Processing of the sludge Removed from the Tanks and pumping of the recovered oil to nearby Tank(s) as directed by OIL. Whatever residues generated during the in-situ process shall be required to be transferred by the contractor to the location (within 50 Kms from Duliajan) as directed by OIL.
15. The contractor shall maintain proper daily records which shall include date wise diluents received, diluents used, sludge processed in cubic meter, oil recovered in cubic meter, samples sent to laboratory for testing BS&W. Any other relevant details may also be incorporated in the records on daily basis as advised by OIL site engineer. The contractor shall provide calibrated flow meters to measure the receipt of diluents or solvent and pumped out recovered oil which shall be recorded and counter signed by OIL site engineer on daily basis.
16. Provisioning of all requisite power supply (DG sets) for operation of the sludge removal plant, Tank Maintenance work, night- time illumination of the plant, if required, & FLP illumination inside the tank etc. shall be under Contractor's Scope.

17. All piping job including supply of the materials required for the job shall be under the Contractor's Scope.
18. All equipment, manpower, consumable etc. required for the job shall be under the scope of the Contractor.
19. The tank bottom, shell and roof plate for the repairing job will be supplied by the Contractor as per the applicable standards.
20. The Steam Coil Replacement job of Tanks to be executed by Contractor having valid Class-I registration certificate issued by CIB, Assam as per Regulation 392 of IBR-1950.
21. All the NDT applicable for Inspection of the Tank has to be carried out by ASNT (requisite level) certified personnel.
22. Water, natural gas and steam, if required for the job, shall be under the Contractor's Scope.
23. Considering the heavy monsoons, the contractor has to ensure that the pre-processed and post-processed sludge inside the tank dyke shall be protected from the rain to prevent the oil spillage. The contractor has to make arrangements to provide suitable covering/shelter to avoid the ingress of rain water.
24. No electrical installation work shall be carried out except by Contractor's competent personnel.
25. All the skilled operating & maintenance manpower employed by the contractor shall have at least 2 years of relevant experience.

Sl. No.	Description of Work	Unit	Remarks
10	Mobilization for Sludge Removal: The job involves transportation of Plant and Machinery from Contractor's premises to designated Tank Location. The contractor to carry out installation and commissioning of Plant and Machinery along with all associated piping to make the plant ready for operation. All Civil Engg. Works shall be under the Contractor's Scope.	Job	
20	Erection of Barricade Wall: Erection of Barricade Wall around the Tank Bundh area for isolation of the tank. The job involves erection of 6 M High X 240 M (approx.) temporary wall of CGI sheets. All materials required for the job to be supplied by the Contractor.	Job	
30	Emptying of crude oil from the tank: Laying of 100 MM (4") NB pipelines including fitting of valves, bends, unions etc. and hooking up with pump(s) for emptying out crude oil from the tank to the lowest level. The pipelines are to be dismantled after completion of work. All materials for laying the pipeline will be under the scope of the contractor.	Job	
40	Isolation of the tank: Dismantling of all the valves and connections associated with the tank, to isolate the tank from the system as per the advice of OIL's representative.	Job	
50	Digging / Construction of pit: Digging of one pit of size: 10m x 20m x 2 m (Approx.) for storage of wax, sludge etc. removed from the tank. The exact location for digging shall be shown by OIL's representative. NB: I. This job is an optional job. OIL at its discretion reserves the right to engage the Contractor's services for the said item. II. This job shall have to be taken up only if OIL does not provide Pit(s) for storage of the Sludge to be removed from the Tank.	M3	
60	Laying of HDPE sheet: Laying of HDPE sheet inside the walls of the pit dug/ constructed under item no: 50. All the items required for the same to be supplied by the Contractor. NB: I. Specification of the HDPE sheet to be used should be as per IS 15351: 2008 or or its latest edition or equivalent. II. This job is an optional job. OIL at its discretion reserves the right to engage the Contractor's services for the said item.	M2	

	III. This job shall have to be taken up only if item no 50 is executed or the Pit(s) provided by OIL does not have the requisite HDPE sheet lining.		
70	Sludge Removal by Mechanized Jetting: The job involves: a) Installation of Jetting Nozzles. b) Placement and necessary installation of all equipment required for tank bottom sludge removal. All civil, electrical, mechanical, piping, logistical jobs required for the same shall be under the scope of the Contractor. c) Laying of all necessary pipelines required for tank bottom sludge removal. The pipes and the fitting required for the same shall be under the Contractor's Scope. d) Removal of tank bottom sludge by mechanical jetting process. The solvent/cutter stock to be used for jetting should be the mother fluid, i.e. crude oil. The crude oil required for the process shall be supplied by OIL as Free Issue Item, with an arrangement for proper measurement and custody transfer. The offered cleaning process for sludge evacuation should be by mechanical jetting process. The offered cleaning process should ensure that prior to any "Man Entry" inside the Tank, the tank bottom sludge is evacuated to a level that the tank manhole cover can be opened safely for "Man Entry". e) Solvent/cutter stock (crude oil) shall be issued with a maximum ceiling of 1:1 ratio by OIL for sludge removal purpose, i.e. diluent/solvent (crude oil) of 1kl (max) will be issued by OIL for 1kl of sludge to be removed. f) The solvent/cutter stock (crude oil) shall be issued from nearby tank(s)/ tank manifolds/pipelines, which may be at a maximum distance of 1000 meters (approximate) as per site conditions. The laying of pipeline from OIL's source of solvent/cutter stock (crude oil) shall have to be carried out by the Contractor. The actual quantity of the sludge to be removed shall be jointly estimated by OIL's representative and Contractor/Contractor's Representative before starting of the job. All equipment and manpower required for the Sludge Removal and Processing of Sludge process shall be under the Contractor's scope. Water & Steam if required for the process shall be provided by OIL as free issue item. All equipment set up for the process to be dismantled by the Contractor after completion of Sludge Removal and Processing of Sludge.	M3	
80	Sludge Removal by ROBOTIC PROCESS: The job involves: Removal of Tank Bottom Sludge by suitable ROBOTIC process wherein "MAN ENTRY" is NOT required for removal of at least 90% of Tank Bottom Sludge. NB: a) The offered Robotic process should evacuate at least 90% of the Tank Bottom sludge from the Tank. b) There must not be any requirement of "Man Entry" inside the Tank till 90% of Tank Bottom Sludge is evacuated.	M3	

	c) All the equipment required go inside the tank (ie: Zone-0) should have to be duly ATEX Zone-0 Certified. d) Any equipment required to be installed inside the Tank Dyke wall should have to be duly ATEX Zone-0 Certified. e) Any equipment for Controlling / Monitoring the process shall have to be installed out side the tank dyke wall.		
90	Residual Sludge Removal: This job is to be taken up after completion of sludge removal from the tanks. The job involves opening of manhole covers for removal of remaining residual tank bottom sludge from inside the tank by suitable mechanical/manual method and transfer to the pit constructed by the Contractor or to temporary tanks / processing units etc to be supplied by the contractor or pit provided by OIL which may be at a distance of about 1000 meter away from the tank. During residual sludge removal process, the Contractor should make arrangement for at least 02 (two) nos. of FLP (Flameproof) motor driven blower fans for circulation of fresh air inside each tank. Man-Entry shall be allowed by OIL only upon achieving the allowable reading for Gases & LEL (Lower Explosive Limit) inside the tanks. The actual quantity of the sludge to be removed shall be estimated upon opening of the manhole covers by OIL's representative and Contractor/Contractor's Representative.	M3	
100	In-situ Processing of Oily Sludge: Processing of sludge removed from the tank in the sludge processing plant set up near the tank. Pumping of the recovered oil to nearby Tank(s) as directed by OIL. All equipment, fuel, consumables and operating crew shall be under Contractor's Scope. NB: 1. The recovered oil shall be tested for BS&W content (%) by OIL and be cleared for pumping only if the same is under permissible limits, i.e.: less than 1% (V/V). 2. The recovered oil parameters shall be tested by OIL and only upon meeting the stipulated parameters of the Contract, the Contractor shall hand over the custody of recovered oil to OIL. 3. All equipment and manpower required for Processing of Sludge process shall be under the Contractor's scope. 4. Contractor shall supply all the requisite Electrical Power for operation of Sludge Processing. 5. The separated effluent and solids to be disposed of as directed by OIL. The oil content in separated effluent shall have to be less than 100 ppm. The effluent shall be transported/pumped to OIL's designated place for further treatment/disposal by OIL. The solid waste from processed sludge is to be stored in a pit at the designated site (to be identified by OIL) (within 50 Kms from Duliajan). 6. All equipment set up for the process to be dismantled by the Contractor after completion of Sludge Removal and Processing of Sludge.	M3	
110	Internal Cleaning of the Tank: The job involves thorough cleaning of inside walls and bottom surfaces of the tank, top and bottom surfaces of the roof, heating coils, supporting structures inside the tank etc., so that no trace of oil is left inside the tank. Cleaning should be such that welding, gas cutting and grinding can be done inside the tank without any fire hazard. The job shall be treated as complete only upon the entire tank is made hydrocarbon free (i.e.: 0% LEL Reading throughout inside the tank). During Internal Cleaning of the Tank, the Contractor should make arrangement for at least 02 (two) nos. of FLP motor driven blower fans for circulation of fresh air inside the tank. The residual sludge/ effluent evacuated from the tank is to be transferred to the pit constructed by the Contractor or provided by OIL	JOB	

	which may be at a distance of about 1000m away from the tank. Only water & steam if required for cleaning of the tank shall be provided by OIL. All other items required for the job shall have to be arranged by the Contractor.		
120	Area Cleaning: Cleaning of crude oil sludge etc. from outside drains, oil/water separators and from inside the tank dyke areas and transfer it to the pit Constructed by the Contractor or Provided by OIL which may be at a distance of about 1000m away from the tank. All necessary materials for the job shall have to be arranged by the Contractor.	JOB	
130	Cutting & Removal of old steam coils: Removal of old steam coils from inside the tank to outside of the tank bundh/dyke after cutting the coil into pieces by Hacksaw cutting. Hydraulic or Steam test has to be carried out to the Steam Coils to identify the leakages to the Steam Coils prior to commencement of the job. NB: Gas testing shall be carried out by OIL prior to cutting of the steam coil(s) and job must only be carried out upon receipt of approval for the same from OIL.	JOB	
140	Pit Gauging: Pit gauging of the bottom, shell and roof plates at all heights wherever required as per the instruction of the OIL's Competent Person, including supply of tools, tackles and requisite competent and licensed manpower required for the job. NB: The Pit Gauging has to be carried out by ASNT (requisite level) certified personnel.	NO	
150	Ultrasonic thickness measurement: Ultrasonic thickness measurement with supply and transportation of all materials to worksite including tools & tackles, machinery, consumables, requisite competent and Certified manpower etc. as necessary to complete the job in all respects as per relevant codes and standards and also as per directions of OIL's Competent Person. The Ultrasonic thickness measurement has to be carried out for Tank Bottom plate, Tank Shell upto a height of 1.5 M from bottom, Top shell course, Tank Roof Plates and the results of the same to be supplied to OIL. The results of the Ultrasonic thickness measurement should also include recommendation for OIL's consideration / action. NB: The Ultrasonic thickness measurement has to be carried out by ASNT (requisite level) certified personnel. No. of points for thickness measurement shall be minimum 10 points per plate. Note: The contractor shall be required to submit the full reports of thickness measurements. It should contain the pictorial representation of all the measurements showing the co-ordinates, separate sheets to be used for bottom plate and vertical shell.	NO	
160	Thickness Measurement of Paint Coating: Paint coating thickness measurement for the Annular plates, bottom plates, tank roof plates and the Shell plate upto 1.5 M height by Magnetic-Field or Eddy- Current (Electromagnetic) Test Methods, including supply of tools, tackles and requisite competent and certified manpower required for the job. NB: The Paint coating thickness measurement has to be carried out by ASNT (requisite level) certified personnel.	JOB	
170	MS Structural steel work for jack: Structural Steel work for support for fixing jacks for tank shell lifting and all other miscellaneous structures related to tank including alignment, fixing to position, true to line and level of structural steel made out of rolled steel angles, channels, beams, plates etc. including splicing, cutting, bending, drilling, welding, riveting, bolting etc. as required to complete the job in all respects. NB: (i) The job has to be carried out if required after OIL's assessment of the Tank Bottom Plates based on NDT Results. All required materials for the job shall be under the scope of the Contactor.	JOB	

180	Jacking up of Tank: The job involves: Casting and placement of Cement Concrete Blocks for jacking, fabrication and fixing of Jack Supports (including supply of all materials) made from MS structural steel, cutting of the bottom and shell plate weld joint and jacking up of the tank. All materials and consumables required for the job shall have to be arranged by the Contractor. NB: (i) The job has to be carried out if required after OIL's assessment of the Tank Bottom Plates based on NDT Results.	JOB	
190	Concrete work at tank bottom foundation: Cleaning of all foreign materials and providing, mixing, compacting, laying in position and curing ordinary lean concrete of Mix 1:2:4(with 6mm & down stone aggregates) at all depth below of tank bottom plate of depressed area of tank pad foundation maintaining top level and slope to match with tank bottom plate complete as directed by OIL's Competent Person (Plate cutting is not included under this item). NB: (i) The job has to be carried out if required after OIL's assessment of the Tank Bottom Foundation after cutting of Annular Bottom Ring.	M3	
200	Fine concrete work over concrete top: Providing & laying average 75 mm thick compacted crushed stone screenings, fine gravel, clean sand of similar materials mixed in hot asphalt (60/80 grade) 8 to 10 percent by volume and rolled or compacted over top surface of concrete as per direction of the OIL's Competent Person for tank pad foundation. NB: (i) The job has to be carried out if required after OIL's assessment of the Tank Bottom Foundation after cutting of Annular Bottom Ring. (ii) Only Bitumen / Asphalt required for the job shall be under the scope of the Contractor.	M3	
210	Repairing of annular bottom Plate: The job involves fabrication, replacement and repairing of the annular bottom plate of fixed/ floating roof crude oil storage tanks as per OIL Drawings and API 650 standards. Reinforcement pads, brackets for various supports, earthing boss and strips etc. as required to complete the job shall also be fabricated as per requirement. All requisite tools, tackles, consumables, manpower etc. have to be arranged by the Contractor. NB: (i) The job has to be carried out if required after OIL's assessment of the Tank Bottom Plates based on NDT Results. (ii) MS plates will be supplied by the contractor as per attached Drawing/Applicable standards. Note: In case of floating roof tanks, (i) the contractor shall be required to repair the damaged supports for the floating roof. (ii) the contractor shall be required to fix the temporary supports, if required, after the joint assessment by the OIL and contractor prior to taking up the repairing/overhauling job. Materials required for these extra temporary supports will be provided by OIL. However, these are to be handed over to OIL after completion of the repairing/overhauling jobs.	M2	
220	Repairing of bottom Plate other than the annular plate of the Tank : The job involves fabrication, replacement and repairing of the bottom plate of fixed/ floating roof crude oil storage tanks as per attached Drawing/ Applicable standards. Reinforcement pads, brackets for various supports, earthing boss and strips etc. as required to complete the job shall also be fabricated as per requirement. All requisite tools, tackles, consumables, manpower etc. have to be arranged by the Contractor. NB: i) The job has to be carried out if required after OIL's assessment of the Tank Bottom Plates based on NDT Results. ii) MS plates will be supplied by the contractor as per attached Drawing/ Applicable standards.	M2	
230	Repairing of the Roof of Tank: The job involves Supply of materials, fabrication, replacement and repairing of the roof plate along with structure	M2	

	of the fixed roof crude oil storage tanks including top shell course, stair case, hand rails, platforms, roof hand rails as per attached Drawing/ Applicable standards along with internal anti corrosive coating. This job to be carried out in conjunction with the repairing of the Tank Bottom and Shell in case both repairing are required together. For lifting/lowering the tank, jacking method to be used. NB: The job has to be carried out if required after OIL's assessment of the Tank Bottom Plates based on NDT Results.		
240	Repair of Roof Chambers for Floating Roof Tank: The job involves repair of damaged/ corroded roof chamber(s) by Cold Welding or lap welding of MS plate pieces of suitable size and thickness. Only the MS Plate(s) if required for the job shall be supplied by the Contractor. Necessary cutting/ forming of the same has to be carried out by the contractor. All requisite tools, tackles and consumables (including cold welding KIT, if required) shall have to be arranged by the Contractor. The roof chamber(s) to be hydraulically tested after repairs (if any). NB: (i) The job has to be carried out if required after OIL's assessment of the roof chambers based on results of Visual Inspection and Ultrasonic thickness measurement	NO	
250	Repairing of Tank shell: Supply of materials, fabrication and repairing of Tank Shell fixed/ floating roof crude oil storage tanks as per OIL Drawings and API 650 standards. Reinforcement pads, brackets for various supports, earthing boss and strips etc. as required to complete the job shall also be fabricated as per requirement. All requisite tools, tackles, consumables, manpower etc. have to be arranged by the Contractor. NB: i) The job has to be carried out if required after OIL's assessment of the Tank Bottom Plates based on NDT Results. ii) MS plates will be supplied by the contractor as per the attached Drawing/Applicable standards.	M2	
260	Welding of Shell Joint: The job involves welding of Tank Shell to the bottom plate, including supply of tools and tackles, machinery, consumables, temporary structures/staging requisite manpower etc. as necessary to complete the job in all respects as per relevant codes and standards, drawings approved fabrication drawings (if any) and as per directions of OIL's Competent Person. NB: This job will have to be taken up only if Service Item No 60 of the Contract is required to be executed.	JOB	
270	Miscellaneous Repair by welding: Repair by welding wherever necessary including miscellaneous jobs like fabrication of various pipefittings like Bend, Tee, Reducer, manhole-inlet-outlet-drain nozzles of Tank, staircase etc. by welding including handling, cutting, end preparation etc. The job will be quantified as per unit length of welding measured in centimetre. All welding joints shall be as per API 1104 specification. Any materials required during miscellaneous repairing such as manhole reinforcement pad & cover pad, nozzles, etc. are under contractor's scope of supply.	CM	
280	Vacuum Box Test: Vacuum Box Test for weld joints of the Annular and Bottom plates with supply of Vacuum Box and all other tools, tackles and required requisite competent manpower as per the instruction of the OIL's Competent Person.	M	
290	Ultrasonic Flaw Detection: Ultrasonic Flaw Detection with supply and transportation of all materials, to worksite including tools and tackles, machinery, consumables, requisite competent and certified manpower etc. as necessary to complete the job in all respects as relevant per codes and	M	

	standards and as per directions of OIL's Competent Person. The results of the same to be supplied to OIL. NB: The Ultrasonic Flaw Detection has to be carried out by ASNT (requisite level) certified personnel.		
300	Liquid penetration test: Liquid penetration test in the shell to bottom joint with supply of all materials, tools and tackles, requisite competent and certified manpower etc. as per the instruction of the OIL's Competent Person. NB: The Liquid penetration test has to be carried out by ASNT (requisite level) certified personnel.	M	
310	Dye Penetrant Test: Dye Penetrant Test of weld joints with supply, of all materials, tools and tackles etc. as per the instruction of the OIL's Competent Person.	M	
320	Replacement of Steam Coil as per IBR Norms: The job involves: Placement of Steam pipes and associated fittings inside the Tank, Erection and Fabrication of the Steam Coil as per OIL Drawing . The job should be as per Regulation 392 of Indian Boiler Regulation and Section 13 of Indian Boiler Act. Necessary DP Test and Hydraulic Test of the Newly Erected Steam Coils shall also have to be carried out. The hydraulic test shall have to be carried out as per Indian Boiler Regulation norms. Any defect observed during the hydraulic test to be rectified and Hydraulic test as described above to be carried out again. The Newly Erected Steam Coils shall have to be approved by CIB, Assam and the certificate of approval to be furnished. Notes: i) Heating /Steam Coil(s) ranging from 50 MM (2") to 100 MM (4") NB, depending on tank size. ii) The job to be executed by Contractor having valid Class-I registration certificate issued by CIB, Assam as per Regulation 392 of IBR-195. iii) Approvals of as built drawings, material acceptance, final job approval by the CIB, Assam shall be under the scope of Work. Any fee payable to Govt/CIB for approval of the same will be paid by the Contractor. iv) All materials required for the Job like Line Pipes and Bends shall be supplied by Contractor as per OIL Drawing. v) All requisite Man power, Tools and tackles required for the job shall have to be arranged by the Contractor. vi) Water for Hydraulic Testing shall be supplied by the Contractor.	JOB	
330	Hydraulic Testing of the tank: All necessary arrangement have to be made for water filling, recording of settlement, hammer testing of shell, dewatering/drainage out water, cleaning, blanking of all nozzles including providing temporary fasteners, test gasket, machinery, tools & tackles, requisite manpower etc. complete in all respects as per relevant codes and standards and direction of OIL's Competent Person. Water and the pipes required for laying the filling lines will be under the scope of the Contactor. The Tank shall have to subject to Hydraulic Testing, as per applicable standards, by filling up the tank with water. Arrangement for pressure recorder will be under the scope of the Contactor.	JOB	
340	Painting with primer & finish paint: Preparation by wire Brushing & sand blasting to SA 2.5, bare metal, supply and application of primer and finish paint to the whole bottom plate, external surface of tank roof plates	SME	

	wherever repair/replacement is applicable, bottom shell plates upto a height of 1.5 M long and top shell course with relevant pipes and accessories, including supply and transportation of all materials to worksite, consumables, temporary structures/staging, tools and tackles, machinery, requisite manpower etc. as necessary to complete the job in all respects as per codes and standards, paint manufacture's specifications, direction etc. and direction of OIL's Competent Person. i) For painting of internal surface of tank as per scope of work, anti-corrosive coating with amine cured phenolic epoxy resin coating of minimum 300-micron Dry Film Thickness (DFT) shall be applicable. ii) For replacement/repair of tank roof plate, tank shell plate, Epoxy Zinc Chrome Primer of minimum 60-micron DFT followed by Aluminium/enamel paint at the external surfaces shall be applicable. iii) For Replacement of Tank Bottom Plate, Zinc Silicate Primer of minimum 65-micron DFT followed by High Build Epoxy Black Paint of minimum 200-micron DFT at the soil side of the tank plate shall be applicable.		
350	Calibration of tank: Calibration of tank including providing of all necessary scaffolding, strapping tapes with accessories, calibration charts with one copy each of non-tearable tracing for calibration chart duly approved by competent authorities. Calibration shall include physical calibration of tank bottom at actual bottom profile conditions after hydro testing. The necessary fees for statutory approval etc. has to be borne by the contractor. The calibration certificate from competent authority/ Legal Metrology has to be submitted to OIL in original.	JOB	
360	Cleaning, Hooking up, Box-up and Commissioning of the Tank: Cleaning of the tank after completion of all the work up to the satisfaction of the OIL's Competent Person and hooking up of all the valves and connections, closing of all manhole doors etc. associated with the tank. Boxing up of the tank with supply of all new gaskets suitable for crude oil application for all nozzles and connection of all pipes and commissioning of the tank.	JOB	
350	Dismantling of the Tank Barricade Wall: The job involves Dismantling of the Tank Barricade Wall erected vide item no 10. The contractor has to clear the site by removal of all materials to the satisfaction of OIL's Competent Person.	JOB	

Notes:

(i) All the quantities mentioned above are indicative figures only. However, payment will be made as per actuals.

(ii) The Contractor has to submit a complete (comprehensive) report on all the work carried out on the Tank, upon completion of the jobs on the Tank.

(iii) Any other items / works /services not specifically listed above but required for safe, reliable and trouble-free execution and completion of the work as per the specified conditions shall be under the scope of the Contractor.