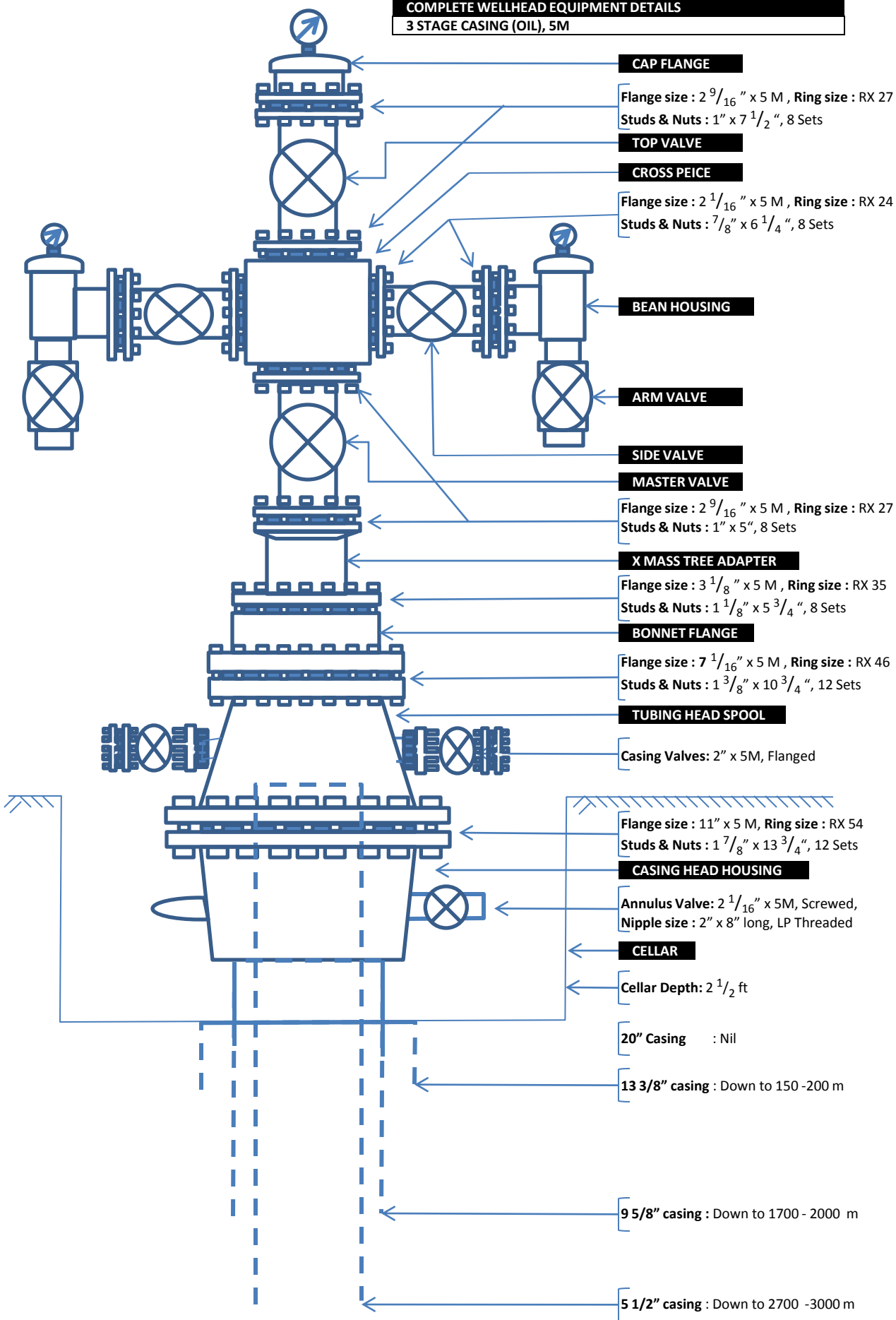


COMPLETE WELLHEAD EQUIPMENT DETAILS

3 STAGE CASING (OIL), 5M



CAP FLANGE

Flange size : 2 ⁹/₁₆ " x 5 M , Ring size : RX 27
Studs & Nuts : 1" x 7 ¹/₂ " , 8 Sets

TOP VALVE

CROSS PEICE

Flange size : 2 ¹/₁₆ " x 5 M , Ring size : RX 24
Studs & Nuts : ⁷/₈ " x 6 ¹/₄ " , 8 Sets

BEAN HOUSING

ARM VALVE

SIDE VALVE

MASTER VALVE

Flange size : 2 ⁹/₁₆ " x 5 M , Ring size : RX 27
Studs & Nuts : 1" x 5" , 8 Sets

X MASS TREE ADAPTER

Flange size : 3 ¹/₈ " x 5 M , Ring size : RX 35
Studs & Nuts : 1 ¹/₈ " x 5 ³/₄ " , 8 Sets

BONNET FLANGE

Flange size : 7 ¹/₁₆ " x 5 M , Ring size : RX 46
Studs & Nuts : 1 ³/₈ " x 10 ³/₄ " , 12 Sets

TUBING HEAD SPOOL

Casing Valves: 2" x 5M, Flanged

Flange size : 11" x 5 M , Ring size : RX 54
Studs & Nuts : 1 ⁷/₈ " x 13 ³/₄ " , 12 Sets

CASING HEAD HOUSING

Annulus Valve: 2 ¹/₁₆ " x 5M, Screwed,
Nipple size : 2" x 8" long, LP Threaded

CELLAR

Cellar Depth: 2 ¹/₂ ft

20" Casing : Nil

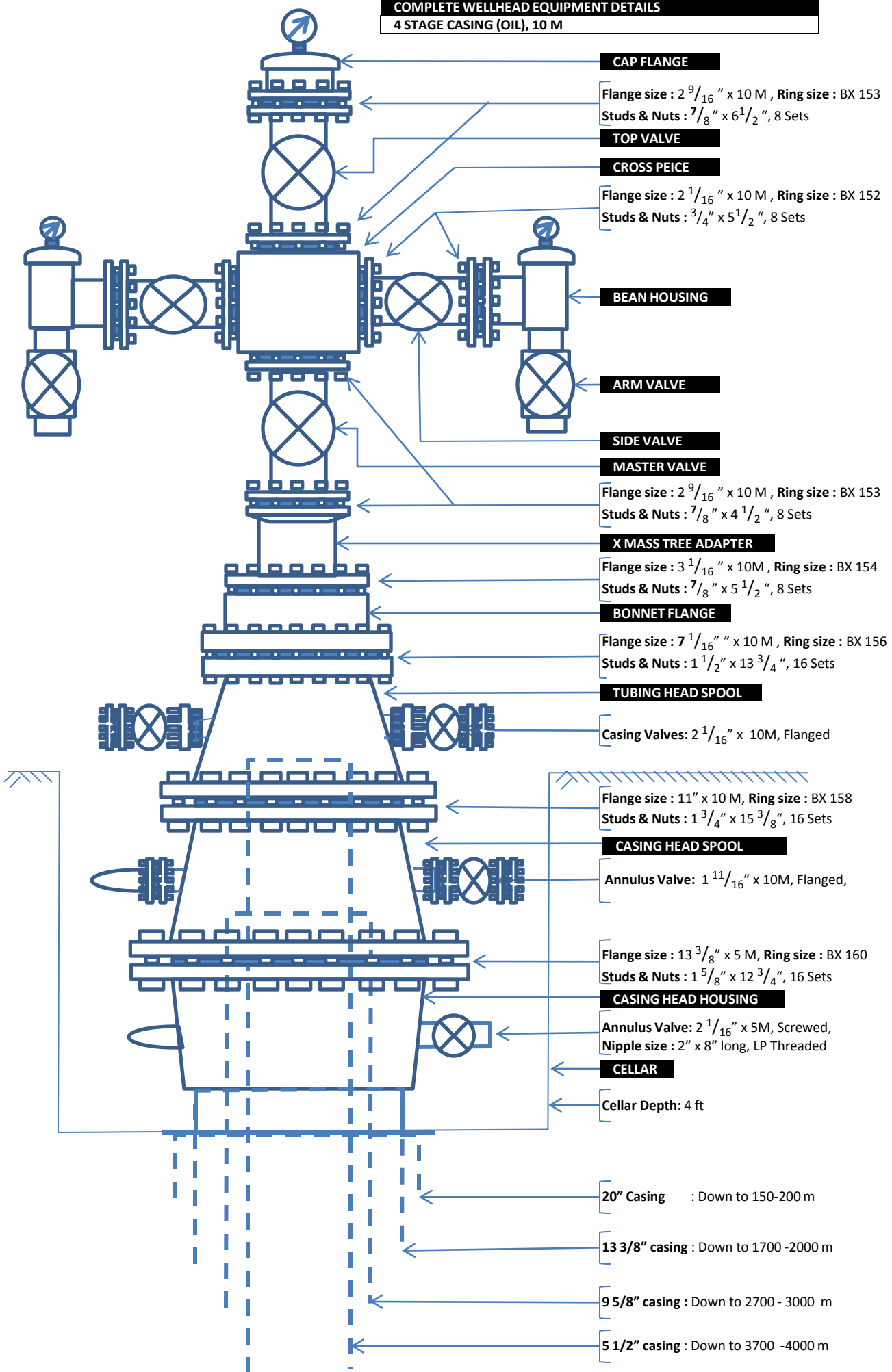
13 ³/₈ " casing : Down to 150 -200 m

9 ⁵/₈ " casing : Down to 1700 - 2000 m

5 ¹/₂ " casing : Down to 2700 -3000 m

COMPLETE WELLHEAD EQUIPMENT DETAILS

4 STAGE CASING (OIL), 10 M



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

CORRIGENDUM

Addendum No. 5 Dated 17.09.2015
to
IFB No. CDG7573P16

This Addendum No. 5 dated 17.09.2015 to IFB No. **CDG7573P16** for Hiring the Services of 10(ten) sets of Electrical Submersible Pump (ESP) system on rental basis including Operation & Maintenance (O&M) for a period of 3(three) years, extendable by another 1(one) year is issued to notify the clarification/reply of queries of different bidders and also to notify extension of the Sale Date & Bid Closing / Technical Bid Opening date as under:

- i) Last Date of Selling Date : 29th September, 2015
- ii) Bid Closing Date & Time / : 06th October, 2015 (11.00 Hrs, IST) /
Tech. Bid Opening Date & Time : 06th October, 2015 (14.00 Hrs, IST)

All other Terms & Conditions of the Bid Document remain unaltered.

The clarifications/replies of different bidders are given as Annexure-I to this page. Bidders are requested to take note of the same while preparing and submitting their offer.

Reply of Queries of Different Bidders

Sl. No	Clause No.	Changes proposed by bidder	Remarks by bidder	OIL's comments
1	PART 3 – Section I 5.0 Sub-Clause 5.2	Bidder would like to clarify that duration time of installation of ESP operations at well site, accommodation for the Personnel will be provided by Oil India	For clarity	OIL will not provide accommodation at site during installation of ESP operation. Refer Part -3, Section I, 5.2
2	PART 3 – Section II 3.0 Scope of Work Page 53 of 122	Oil India has mentioned that “Necessary fuel Gas (Natural Gas) required for running of the Gas based ESP Gensets shall be supplied by OIL.”	Kindly clarify in case of any failure/shut down due to poor quality of the Gas supplied by Oil India, Oil India should not be deducting rental or Applying LD against us as well as the Extra cost will be charged to Oil India.	We would like to mention that OIL is operating 125 KVA Gas Engine driven Gensets successfully. The same Gas used for running these Gensets shall be supplied as fuel Gas.
3	General	Request you to kindly provide us Water Analysis	The same is required for Designing ESP.	Please be guided as per clause no. Design Data Sheet IA- FLUID PROPERTIES (pg. 63-64). However, we are not clear what exact water analysis report is required. Moreover, we would like to inform that ESPs will be installed in different fields.
4	PART 3 – Section II	Kindly confirm whether Oil India will provide Call Out for the Mobilisation of 2nd to 5th Phase of ESP	Kindly confirm on the same or once the 01st ESP has been delivered, Bidder has to mobilise the 02nd and so on.	Bidder to be guided as per Part 3-Section II, 3-C-II. No separate call out for mobilization shall be issued.
5	PART 3 – Section II – F Operation & Maintenance of ESPs – f	In case of failure (shutdown) of ESP, Kindly confirm what is the time limit to pull out the ESP. Kindly provide us the information and also confirm after completion of that tenure, if the ESP is not pullout the Bidder need to be compensated accordingly		Bidder to be guided as per clause no. PART-3, Section II, 3. F. If ESP is not pulled out, lost in hole clauses may be applied. PART-3, SECTION-III, 9.2, b) and c) of tender.

Reply of Queries of Different Bidders

6	PART 3 – Section II – F Operation & Maintenance of ESPs – h	Kindly clarify on the same	As the Rig along with the illumination will be provide and as such Contractor should not be providing the same.	The illumination of the installation shall be contractor's responsibility immediately after rig down of the Work-Over outfit.
7	PART 3 – Section IV – 3.0 e	If there is shut down of equipment attributable to contractor or under maintenance beyond 2 (two) days per calendar month, no Daily Rental Charge for equipment will be payable.	Bidder should be penalised for shut down due to other conditions not attributable to the Bidder.	Not accepted.
8	General	In case of any proactive pull which OIL will perform what will be the payment mechanism for the rental for the Run1 Equipments		Please be guided as per PART-3; section II Clause 3.0 of tender.
9	General	Bidder would like to do a site visit before the Bid submission date, 2-3 Personnel would like to visit the Site	Bidder would like to understand the area.	Bidders are welcome to have a site visit at their own cost.
10	PART-3; section II 3.0	1.0 The work is defined and described by, but not necessarily limited to, any or all of the following. The service to be carried out by the Contractor under this contract is as follows:	Please specify the battery limit?	Please be guided as per PART-3, section II Clause 3.0 of tender.
11	PART-3; section II 3.0	D. Assignment of field service specialists to work with OIL's rig crew during installation/de-installation /re-siting etc.	Please give the details regarding field service specialist education and working experience?	Please be guided as per PART-3, section II Clause 12.0 of tender.
12	PART-3; section II 3.1	Designing of surface and sub surface ESP equipment : On the basis of well data supplied, the Contractor shall have to design surface and down hole ESP system equipment individually for all the wells	As contractor shall have to design surface and down hole ESP sys individually for all the wells so please kindly give the well data for all individual wells.	Please be guided as per PART-3; section II Clause 3 A of tender.

Reply of Queries of Different Bidders

13	PART-3; section II 3.2	E. Installation & Commissioning of ESP: Once the installation of the down hole equipment is completed, the Contractor shall arrange for commissioning of the ESP system as a whole to the satisfaction of OIL. All tests shall be carried out in presence of OIL's Engineers and all test results shall be recorded in a proper manner and should be submitted to OIL.	Please specify the list of test required?	Please be guided as per relevant API standards.
14	PART-3; section II 3.3	HSD required for running of the Diesel based ESP Gensets shall be supplied by Contractor. Necessary fuel Gas (Natural Gas) required for running of the Gas based ESP Gensets shall be supplied by OIL. The supplied gas will be free of cost. The gas shall be supplied to a single point at the well site and the party shall arrange for extending the gas lines to their equipment's.	Please specify what are the oil and gas properties, quality and specifications, composition of gas, impurity and NCV? Will the gas be available before ESP system is installed?	We would like to mention that OIL is operating 125 KVA Gas Engine driven Gensets successfully. The same Gas used for running these Gensets shall be supplied as fuel Gas. Yes. The gas shall be supplied to a single point at the well site and the party shall arrange for extending the gas lines to their equipment's.
15	PART-3; section II 3.3	g) During the tenure of the contract, if OIL intends to shift ESP system from a particular location to another location due to uneconomical operation, the well fails to deliver desired level of production, reservoir and production related reasons or any other logistics or environmental problem, OIL shall notify the Contractor to terminate the operation for that particular well and direct to reinstallation of the ESPs to another well. The Contractor shall retrieve the down hole equipment from the well with the help of Work-over rig provided by OIL. The Contractor shall arrange for transferring all the surface and subsurface equipment to another locations as designated by OIL.	Please specify daily rental and operational charge will be payable or not during shifting of ESP system?	Please be guided as per PART- 3, SECTION IV SCHEDULE OF RATES clause 8.0 of tender.

Reply of Queries of Different Bidders

16	PART-3; section 13.0	II	CAMP AND OTHER ESTABLISHMENT: Suitable camp facilities for Contractor's personnel including catering services shall be Contractor's responsibility.	Please specify about base camp facility in detail?	Please be guided as per Part 3 Section II clause 13.0, sub clause no. vii of tender.
17	PART-3; section 13.0	II	Design data sheet IA General information	Please specify what is the formation water composition?	Please be guided as per Part 3 Section II Design Data Sheet IA- FLUID PROPERTIES of tender. However, we are not clear what exact water analysis report is required. Moreover, we would like to inform that ESPs will be installed in different fields.
18	PART-3; section 13.0	II	Design data sheet IA General information	What will be the scope for extracted oil transportation and handling? What will be the sizing for surface flow line piping? Also clarify the scope of pumping?	Please be guided as per Part 3 Section II Design Data Sheet IA of tender
19	PART-3; section 13.0	II	Design data sheet IA General information	Please clarify 60 cum/d-100 cum/day is the oil production capacity or total fluid capacity?	Total Fluid capacity.
20	PART-3; section 13.0	II	Design data sheet IA General information	Please specify what is the sand quantity?	It cannot be specified. Different reservoirs have different volumes of sand production.
21	PART-3; section 13.0	II	Design data sheet IA General information	Please specify what will be the ratio for gas available?	Details will be provided to contractor after issuance of LOA.
22	PART-3; section 13.0	II	Design data sheet IA General information	Please specify approximate viscosity of oil?	Details will be provided to contractor after issuance of LOA.
23	PART-3; section 13.0	II	Design data sheet IA General information	Please specify storage and transportation arrangement for crude oil?	Not in contract scope.

Reply of Queries of Different Bidders

24	Part 3 Section- IV	a) In the event of either party being rendered unable by 'Force Majeure' to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such 'Force Majeure' will stand suspended as provided herein. The word 'Force Majeure' as employed herein shall mean acts of God, war, revolt, agitation, strikes, riot, fire, flood, sabotage, civil commotion, road barricade (but not due to interference of employment problem of the Bidder) and any other cause, whether of kind herein enumerated or otherwise which are not within the control of the party to the contract and which renders performance of the contract by the said party impossible.	1. Please clarify that force majeure in case of heavy rain, lock out and bands? 2. What will be the charges applicable in that cases?	1. Please be guided as per Part 3 Section IV Clause no. 9.0 of tender. 2. Please be guided as per Part 3 Section I Clause no. 11 and Part 3 Section IV Clause no. 9.0 of tender.
25	PART-3; section IV 9.0	c) DAILY RENTAL CHARGE FOR EQUIPMENT PER UNIT during Force Majeure shall be restricted to 50% of respective charges for the service being provided by Contractor at the time of occurrence of force majeure situation. This will be considered as FORCE MAJEURE RATE.	Please specify about 100 % DAILY RENTAL CHARGES irrespective of FORCE MAJURE ?	Not agreed.
26	Part 3 Section- III	1.0 DEFINITIONS: Following terms and expression shall have the meaning hereby assigned to them unless the context otherwise requires:	Please clarify the defination of Operation?	Definition of operation is not defined in SCC. Operations to be understood in context of the sentence/paragraph.
27		Part 3 /Section I/General Conditions of the Contract - 10 Changes	Bidder requests OIL India to agree for changes to be mutually agreed between the parties. Therefore, please revise the sentence as under in the Line 4th/5th of sub-clause 10.1 "...Contractor shall perform the work as changed once the equitable adjustment is mutually agreed in writing by the parties.	No change

Reply of Queries of Different Bidders

28		Part 3 /Section I/General Conditions of the Contract - 15 Sub-contracting/Assignment	Bidder requests OIL India to clarify if the submission of subcontractors for approval required during tendering phase or required after award of contract. We request Oil India to agree to sub-contract the part of the ancillary support services to Bidder's subsidiaries and affiliates without the prior consent of Oil India	Clause is self-explanatory. No change.
29		Part 3 /Section I/General Conditions of the Contract - 16 Miscellaneous Provisions	Bidder requests OIL India to delete sub-clause 16.4 considering Contractor is required to be fully responsible for complete execution and performance of the services under the Contract, as per the tender provisions thus Contractor is required to be given flexibility in terms of changing the keep personnel for this long duration contract of 3 plus years.	No Change.
30		Part 3 /Section I/General Conditions of the Contract - 20 Labour	Bidder requests OIL India in the event qualified labour cannot be found within the area of operations, can labour be then brought in from elsewhere in India	No Change.

Reply of Queries of Different Bidders

31		Part 3 /Section II/Terms of Reference & Technical Specifications of Equipment - 2.0 Area of Operation	<p>Bidder understand that OIL has planned to install 10 (Ten) nos. of ESPs in its Upper Assam oilfields. OIL to advise;</p> <p>a)Total area of operations where the representative wells are located out of which 10 candidate wells needs to be selected</p> <p>b) the total number of clusters and the average cluster size of the wells whose well data has been mentioned in the tender scope</p>	<p>a) The area of operation is in the oilfields of the state of Assam.</p> <p>b) The well locations will be finalized after well data collection and analysis, which may be cluster wells and also single well locations.</p>
32		Part 3 /Section II/Terms of Reference & Technical Specifications of Equipment -3.0 Scope of Work	<p>We request the following clarifications be provided for the purposes of bidding;</p> <p>a.A. If after contractor review of available wells, ten (10) suitable ESP candidates are not identified, how will the remaining balance of ESP wells be identified?</p> <p>b.E. Can gas analysis (supplied by OIL) be provided?</p> <p>c.E. What is the approximate length of gas line extension required to be performed by contractor?</p>	<p>a. a. More wells shall be made available for contractor review.</p> <p>b. We would like to mention that OIL is operating 125 KVA Gas Engine driven Gensets successfully. The same Gas used for running these Gensets shall be supplied as fuel Gas.</p> <p>c. Approximate length 120-150 mtrs</p>

Reply of Queries of Different Bidders

33		Part 3 /Section II/Terms of Reference & Technical Specifications of Equipment -3.0 Scope of Work	Bidder requests Oil India to clarify availability of the primary source of power on each well. Bidder understands that the primary source will be Diesel and Gas Engine generators. If this is the case then will Bidder, in the event of award, have to supply one duty and one standby unit on each well, which translates to total 20 Genset on 10 wells. However in case the primary power supply is from the overhead supply then only backup units need to be provided, which leads to supply only 10 Genset for 10 wells. Please confirm.	Bidder's understanding is correct. No overhead power supply or primary power is available.
34		Part 3 /Section II/Terms of Reference & Technical Specifications of Equipment -3.0 Scope of Work/F Operation & Maintenance of ESPs	As regards Operation & Maintenance of ESPs, please clarify the following; a. f) v) Relocation of ESP equipment-is the intent ESP equipment will be shifted to another well without testing prior to re-installation? Please clarify under what circumstances OIL expects ESP Equipment to be relocated and if that relocation will be limited to within the cluster of wells.b. p) Security-What level of security is required (for personnel and equipment) for operational area?	a).ESP a) ESP relocation shall be as per Part 3 /Section II/Terms of Reference & Technical Specifications of Equipment -3.0 Scope of Work/F Operation & Maintenance of ESPs, sub-clause-g. b) The relocation may or may not be limited to cluster wells. c. The level of security shall be as per Part 3 /Section II/Terms of Reference & Technical Specifications of Equipment -3.0 Scope of Work/F Operation & Maintenance of ESPs, sub-clause-p.
35		Part 3 /Section III/Special Conditions - 9.0 Loss or damage to Equipment	We request the deletion of sub-clause 9.2 c as it overrides the other related tender terms and conditions including Pollution and Contamination.	Not acceptable

Reply of Queries of Different Bidders

36		Part 3 /Section IV/Schedule of Rates - 11.0 Cost of ESP Equipment	Bidder understands that OIL is requesting each candidate company provide their own internal methodology for equipment depreciation.	The clause is self-explanatory.
37		1. Diesel Gen sets back up gen sets installed on site and synchronized with the main one or kept in stock and used for replacement?		Back up Diesel Gen-sets should be installed on site and synchronized with the main one. Refer to Part 3, Section II of tender.
38		2. Gas gen sets. What kind of gas is used for the gen sets and who is responsible to provide this, Contractor or Company.		OIL will supply the natural gas. We would like to mention that OIL is operating 125 KVA Gas Engine driven Gensets successfully. The same Gas used for running these Gensets shall be supplied as fuel Gas.
39		3. We need deviation survey reports for the wells candidates, at least typical data.		Will be provided to contractor after issuance of LOA.
40		4. As page 51 mentions well head we assume that this is a Contractor's responsibility to supply the same. In this case please provide any technical data/drawings relevant to the current well head design.		Drawing is attached.
41		Kindly refer to Liquidated Damages (Clause 17 page of general terms) 1. Kindly change the LD to 1/2% of the total value of 2 ESP system subject to a maximum of 5% .		Not accepted. No Change.
42		Kindly refer-Under Part-3, Section-II, sub section E- Installation and Commissioning of ESP 1. It is mentioned HSD shall be supplied by		1. Please be guided as per clause no. E of Part 3 Section 2 of tender.

Reply of Queries of Different Bidders

		Contractor. Only fuel gas will be supplied by OIL.		
43		2. All equipment inside the Hazardous Zone should have valid DGMS approval- a. Novomet would like to know - What all equipment (in our scope) will fall under this zone? (JB, well head penetrator pig tail ??) b. How much area from the well is considered as hazardous zone? c. Can we use vented Junction boxes?		2. a. Please be guided as per Part- 3 Section II Clause no. 3 C i. b. Up to a radius of 45 m from well head. c. Vented junction box can be used as per statutory norms.
44		3. Page 52 (Delivery schedule) Any change in spec will cause longer delivery time. The delivery schedule indicated in tender documents is for equipment offered as per tender well data.		Change in delivery schedule is not accepted. Please be guided as per Part III Section 2, Clause no. 3 sub clause C II of tender.
45		4. Under F - Operation and Maintenance of ESP It states- If there is more than one failure for a particular set of ESP downhole equipment in 2 years which requires retrieval, OIL will endeavour to provide rigs within 90 days. Zero rates along with penalty as per Clause 9 c) of Part - 3 Section IV will be applicable till the installation and commissioning of ESPs is completed subject. Penalty will be applicable for a maximum of 90 day. Penalty should be applied for the number of days - the contractor is unable to provide replacement equipment. Reason of failure can be only found after pull out of equipment. Till the reason for failure is mutually agreed no penalty or payment stoppage should be applicable.		Not accepted. No Change

Reply of Queries of Different Bidders

46		Others 1. Gas data needed for proper selection of gas engine.		We would like to mention that OIL is operating 125 KVA Gas Engine driven Gen-sets successfully. The same Gas used for running these Gen-sets shall be supplied as fuel Gas..
47	PART 3 – Section II 3.0 Sub-Clause C	Bidder would request Oil India to kindly clarify the Backup required for both Gas & Diesel Genset to be provided as per the Tender we need to provide 1 unit per ESP system for 5 ESP systems as backup Based on the experience of the Bidder one backup Genset is sufficient for efficient ESP operations can be attained	During the monthly maintenance Bidder can proactively do the necessary maintenance for the same.	Please be guided as per Part 3, Section II, clause No. 3 C I of tender.
48		“For Clause No. 1.4 of BRC/BEC i.e. in case of bids with technical collaboration/joint venture, the bidder shall in support of their experience, submit Completion Certificates from clients or shipping documents or any other document substantiating that the bidder has supplied at least 5 ESPs in the last 7 years reckoning bid closing date. They shall also submit a Memorandum of Understanding (MOU)/Agreement with their technical collaborator/joint venture partner clearly indicating their roles under the scope of work which shall be addressed to OIL and shall remain valid and binding for the contract period under this tender.”	Our Technical collaborator is an Original Equipment Manufacturer and has supplied 5 ESP. Kindly clarify that can we bid on the basis of the experience of our technical collaborator.	Please be guided as per BRC clause No. 1.4 of the tender, which is self-explanatory.
49	General	We would request Oil India to kindly confirm regarding the payment against the pro-actively pulled equipment's. What will be the run life against pro-actively		For all the three points, please be guided as per Part III Section II Clause No. 3.0 sub clause F of Scope of Work.

Reply of Queries of Different Bidders

		completed wells. What will be the run life Oil India are looking from the 2nd run		
50	General	We would request you to kindly provide some ESP or SRP or Bean pump run life history against these wells.		Not installed in these wells so far.
51	General	Kindly confirm whether Oil India used any other lift method. If yes what will be the run life against those in similar field.		SRP and gas lift is used at present.
52	General	Kindly provide us the information in regards to how many wells are self-flowing right now in OIL		Cannot be provided.
