

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliajan – 786602, Assam, India
Website: www.oil-india.com

Corrigendum No. 2 to IFB No. CPI8240P19

Engineering, Fabrication and supply of Modular Packages Contract (MPC) for OCS at Nadua and GGS at East Khagorijan in Dibrugarh District, Assam

1. This Corrigendum is issued to notify the following :
 - a) Terms & conditions, specifications and schedules in various sections of the Bidding Document shall stand modified to the extent indicated here below under column “Modified Clause” of **Annexure- I**.
 - b) In view of queries received from bidders in matter corresponding to technical SOW, the final OIL/Consultant’s responses to the queries are generated. All the bidders are requested to refer to **Annexure- II** attached herewith.
 - c) Extension of the Bid Closing/Technical Bid Opening date and date of sale of bid document as under:-

- | | |
|--|-------------------------------|
| i) Bid Closing Date & Time | : 01.08.2018, 11:00 hrs. IST. |
| ii) Technical Bid Opening Date & Time | : 01.08.2018, 14:00 hrs. IST. |
| iii) Last Date & Time of Sale of Bid | : 25.07.2018, 15:30 hrs. IST. |

Document

2. All other terms and conditions of the tender remain unaltered.
3. All the prospective bidders are requested to regularly visit OIL’s website: www.oil-india.com and e-procurement portal <https://etender.srm.oilindia.in/irj/portal> for further announcements/latest information related to this tender.
4. Bidder to submit this Corrigendum No. 02 along with **Annexure – I & II** duly signed & stamped in all pages as token of acceptance and shall upload this document in the un-priced folder of the e- bid.

Annexure- I.

Summary of the modified terms & conditions, specifications and schedules in various sections of Bidding Document

SL No	RFQ Section	Ref. Clause	Existing Clause	Modified Clause
1	Forwarding Letter	12.0	Bid security value: INR 30,00,000.00	Bid security value: INR 26,08,000.00
2	Bid Evaluation Criteria	1.5	Experience of having successfully executed at least one similar job as mentioned above in Para 1.1 of value not less than INR. 9.43 Crores by the bidders in the last five years (05) to be reckoned from the original Bid Closing date.	Experience of having successfully executed at least one similar job as mentioned above in Para 1.1 of value not less than INR. 8.04 Crores by the bidders in the last five years (05) to be reckoned from the original Bid Closing date.
3	Bid Evaluation Criteria	2.a	Annual Turnover of Bidder: The Annual Financial turnover of the Bidder in any of the 3 preceeding Financial / Accounting Years from the original bid closing date (BCD) must be equal or more than INR 9.43 Crores as per Audited Annual Financial Reports.	Annual Turnover of Bidder: The Annual Financial turnover of the Bidder in any of the 3 preceding Financial / Accounting Years from the original bid closing date (BCD) must be equal or more than INR 8.04 Crores as per Audited Annual Financial Reports.
4	Bid Evaluation Criteria	2.c	Working Capital Requirement: The Working Capital of the Bidder must be minimum INR 1.886 Crores in the preceding Financial/Accounting year from the original bid closing date	Working Capital Requirement: The Working Capital of the Bidder must be minimum INR 1.608 Crores in the preceding Financial/Accounting year from the original bid closing date
5	Technical Volume-II, Sec -I	2.2 (g), Pg. 13 of 379	<p>g) A separate skid for clarified water system shall be provided consisting of following equipment's,</p> <ul style="list-style-type: none"> • Clarified water booster pump (3 x 50%) of capacity 46 m3/hr and head 10kg/sq.cm (g) as per API 610. • Clarified water disposal pump, reciprocating type as per API 674 and shall be driven by Gas engine. Pump capacity shall be 46 m3/hr and differential pressure of 60.3 kg/sq.cm (g). • Gas engine shall be designed as per ISO 3046. Acoustic enclosure shall be provided to meet the noise level of 75 dBA @ 1m distance 	<p>g) A separate skid for clarified water system shall be provided consisting of following equipment's,</p> <ul style="list-style-type: none"> • Clarified water disposal pump (3x50%), Motor driven Centrifugal pump as per API 610. Pump capacity shall be 46 m3/hr and differential pressure of 35 kg/sq.cm (g). • Clarified water disposal pump suction and discharge piping, associated instruments, strainers, valves etc., within the clarified water

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			<p>from the periphery of equipment/enclosure.</p> <ul style="list-style-type: none"> CEMS panel shall be provided to monitor the emission at the Gas engine exhaust. Clarified water booster pump suction piping header from skid edge, individual suction piping with valves, strainer, instruments etc. and individual discharge piping with NRV, valves, instruments, with header routed to clarified water disposal pump. Clarified water disposal pump with individual discharge piping with valves, instruments etc. and header up to skid edge. 	<p>disposal pump skid battery limit to be considered in Bidder's scope of supply.</p> <p>Clarified water Booster pumps (3x50%), Gas engine drive and CEMS panel are deleted from the scope of supply.</p> <p>The above statement is applicable for further clauses in the Tender document related to Clarified water booster pump and Clarified water disposal pump.</p>																																													
6	Technical Volume-II, Sec -I	2.2 (b), Pg. 11 of 379	<p>b) Effluent water inlet specification</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Specification</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Oil in Water</td> <td>10000 ppm</td> </tr> <tr> <td>2</td> <td>Inlet Temperature</td> <td>51 °C</td> </tr> <tr> <td>3</td> <td>pH</td> <td>7 - 9</td> </tr> <tr> <td>4</td> <td>TSS</td> <td>Up to 150 ppm</td> </tr> <tr> <td>5</td> <td>Dissolved O₂Content</td> <td>Up to 7 ppm</td> </tr> <tr> <td>6</td> <td>SRB</td> <td>10³ to 10⁶ CFU/ml</td> </tr> </tbody> </table>	Sl. No.	Specification	Value	1	Oil in Water	10000 ppm	2	Inlet Temperature	51 °C	3	pH	7 - 9	4	TSS	Up to 150 ppm	5	Dissolved O ₂ Content	Up to 7 ppm	6	SRB	10 ³ to 10 ⁶ CFU/ml	<p>b) Effluent water inlet specification shall be read as follows :</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Specification</th> <th>Parameters</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Oil in Water</td> <td>10000 ppm</td> </tr> <tr> <td>2</td> <td>Inlet Temperature</td> <td>51 °C</td> </tr> <tr> <td>3</td> <td>pH</td> <td>7 - 9</td> </tr> <tr> <td>4</td> <td>TSS</td> <td>Up to 100 ppm</td> </tr> <tr> <td>5</td> <td>Dissolved O₂Content</td> <td>Up to 7 ppm</td> </tr> <tr> <td>6</td> <td>SRB</td> <td>10³ to 10⁶ CFU/ml</td> </tr> <tr> <td>7</td> <td>Any other bacteria activity like GAB, IRB & APB</td> <td>Not Measured</td> </tr> </tbody> </table>	Sl. No	Specification	Parameters	1	Oil in Water	10000 ppm	2	Inlet Temperature	51 °C	3	pH	7 - 9	4	TSS	Up to 100 ppm	5	Dissolved O ₂ Content	Up to 7 ppm	6	SRB	10 ³ to 10 ⁶ CFU/ml	7	Any other bacteria activity like GAB, IRB & APB	Not Measured
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7	Technical Volume-II, Sec -I	2.2 (d), Pg. 13 of 379	<p>d) MPC Contractor shall meet the Effluent water outlet specification mentioned in the below table:</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Specification</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Oil in Water</td> <td><10 ppm</td> </tr> <tr> <td>2</td> <td>Temperature</td> <td>51 °C</td> </tr> <tr> <td>3</td> <td>Sludge content</td> <td>NIL</td> </tr> <tr> <td>4</td> <td>Ph</td> <td>6.5 - 8.5</td> </tr> <tr> <td>5</td> <td>TSS</td> <td>98% Removal of suspended Solids >10 microns</td> </tr> <tr> <td>6</td> <td>Dissolved O₂Content</td> <td><0.2 ppm</td> </tr> <tr> <td>7</td> <td>SRB</td> <td>Nil</td> </tr> <tr> <td>8</td> <td>Any other bacteria activity like GAB, IRB & APB</td> <td>Nil</td> </tr> </tbody> </table>	Sl. No	Specification	Value	1	Oil in Water	<10 ppm	2	Temperature	51 °C	3	Sludge content	NIL	4	Ph	6.5 - 8.5	5	TSS	98% Removal of suspended Solids >10 microns	6	Dissolved O ₂ Content	<0.2 ppm	7	SRB	Nil	8	Any other bacteria activity like GAB, IRB & APB	Nil	<p>d) Effluent water outlet specification shall be read as follows :</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Specification</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Oil & Greese</td> <td><10 ppm</td> </tr> <tr> <td>2</td> <td>Suspended solids</td> <td>100 ppm</td> </tr> </tbody> </table>	Sl. No.	Specification	Value	1	Oil & Greese	<10 ppm	2	Suspended solids	100 ppm									
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Annexure – II**CONSOLIDATED LIST OF OIL / Consultant's RESPONSE TO THE PRE-BID QUERIES**

SL No	RFQ Section	Ref. Clause	Subject	Type	Bidder's Query	OWNER'S RESPONSE
1	Volume I, Part III	-	Document Missing	Clarification	Volume II reference given for P & ID, Layout etc. in tender document. We have not found Volume II in tender document. We are unable to start the design works in absence of above basic documents. Please provide the same.	All the documents are available in IFB No. CPI8240P19.
2	Volume I, Part III	3.1	Bore well pump Piping, Electrical and Instrumentation scope	Clarification	We understand that only Bore well pumps loose supply scope in MPC contractor. Scope of supply related to Electrical, Instrumentation and piping by Client. Please confirm.	Vendor understanding is correct.
3	Volume I, Part III	3.1	Bore well pumps quantity	Clarification	We understand that Bore well pumps quantity 2 working + 1 standby. Please confirm.	Vendor understanding is correct
4	Volume I, Part III	-	Drain Network scope	Clarification	Drain Network (Process drain, Storm water drain and sanitary drain) scope not given in tender document. Please clarify.	All process and Storm drain water will be collected in Effluent treatment tank and same is excluded from Bidder scope.
5	Volume I, Part III	3.1, f	Piping length	Clarification	Please note that Plant layout is not found in tender. Please furnish the horizontal distance between Potable water pump and Potable water storage tanks for Potable water pump head calculation.	Refer the Plot plan which is part of Volume II Technical Document in IFB No. CPI8240P19 for tentative distance between the pump and Potable water tank.
6	Volume I,	3.2, a	Effluent transfer pump Piping,	Clarification	We understand that only Effluent transfer pump loose supply scope in MPC contractor. Scope of	Vendor understanding is correct.

	Part III		Electrical and Instrumentation scope deviation		supply related to Electrical, Instrumentation and piping by Client. Please confirm.	
7	Volume I, Part III	-	List of Chemical dosing system requirement	Clarification	List of Chemical dosing system requirement	The inlet and outlet process conditions have been specified in the tender. Vendor to suitably design the chemical dosing system to meet the tender requirements.
8	Volume I, Part III	-	Pipe MOC	Clarification	We have not found Pipe MOC requirement for Raw water treatment, Effluent water Treatment and Sewage Treatment plant in tender. Please furnish the same.	Bidder shall consider suitable MOC for Pipes based on the process/ service. PMS, VMS & P&ID, of Volume II Technical document of IFB No. CPI8240P19 shall be referred.
9	Volume I, Part III	-	Stand by requirement in ETP and STP plant	Clarification	List of equipments (API Separator, Tilted plate interceptor, Flash Mixer, Flocculation tank, Dissolved Air Flootation (DAF) Unit, Multi grade filter and Oil removal filter and in clause 3.3 for STP) required in ETP is given. Standby philosophy not given in tender. We understand that no standby unit is required in ETP. Please confirm.	ETP skid is a single train. However, the rotating items such as Pump etc. shall be 2 x 100%.
10	Volume I, Part III	3.3	STP plant inlet design parameter	Clarification	We have not found STP plant inlet design parameter in tender. Please furnish the same for STP plant design.	STP to be designed for 50 Personnel. Bidder shall design the system based on the number of people and for their Kitchen, Dining, Washing, Bathing & Toilet facilities.
11	Volume I, Part III	-	Minimum Instrumentation required	Clarification	We have not found Instrumentation required in Raw water treatment, Effluent water Treatment and Sewage Treatment plant in tender. Please furnish the minimum Instrumentation required.	Plant operation shall be automated without manual intervention. Instruments shall be provided suitably by Vendor.
12	Volume I, Part III	19	PGTR Duration	Clarification	It is mention that "The duration of PGTR will be one (1) month". As per Industries regular practice PGTR duration in general 72 hrs. Please	After Commissioning of package Site acceptance test (SAT) will be conducted for 72 hours. PGTR will be done for 1

					review.	month period after commissioning of the plant.
13	Utility Flow Diagram	-	OWS collection system	Clarification	We understand that OWS collection system not in MPC contractor. Please confirm.	Vendor understanding is correct.
14	Volume-I,Part-III	5.0(d)	Scope	Clarification	<p>We understand that following works are excluded from scope of MPC-3 Contractor.</p> <ol style="list-style-type: none"> 1. Civil construction. 2. Construction of effluent water storage tank (underground). 3. The civil design of foundations of all structural skids, RCC tanks, equipment, pipe racks, etc. 4. Apart from fabrication of skids all other remaining steel works such as inter connection; hook up of skids, installation will be done by others. 5. The design procurement, and fabrication of pipe rack. 	<ol style="list-style-type: none"> 1. Civil construction is not in Bidders scope. 2. Effluent storage tank construction is not in bidder's scope. 3. Foundation design for skid mounting equipments, package installation / erection is not in Bidders scope. 4. Pipe rack outside the Water package is not in Bidders scope. <p>All inputs required for design of Civil foundation shall be provided by the Bidder.</p> <p>RCC tank within the package shall be designed and detail engineering drawings shall be provided by the Bidder; Construction by Others.</p>
15	Volume-I,Part-III	3.0	Scope	Clarification	<p>Our scope of work includes following works only.</p> <ol style="list-style-type: none"> 1. Fabrication of structural steel skids consisting of supports for equipment, platforms, railing, etc...and supply only Steel skids will be prefabricated and transported to the site. 2. The detail design and drawings of RCC Tanks. 3. The Inputs required for design, construction of civil foundations, pedestal, stools and steps. <p>Skids will be supported on concrete pedestals.</p>	<p>Bidder understanding for items 1 to 4 are correct, in addition all the interconnecting piping with supports between the skids within the package shall be supplied by Bidder.</p>

					4.Inputs required for foundation loading for access platform, pumps, leaders, stair ways, hand rails, etc... within the package	
16	General	-	-	Clarification	We understand that this tender is not a “work Contract”. Please confirm.	Confirmed
17	General	-	Statutory clearances	Clarification	Statutory clearances	Bidder to elaborate the query
18	General	-	-	Clarification	We understand that in case of extra expenditure/ efforts because of any change in requirement specified in the scope of work, because of change in codes/standards/laws/ regulations /impositions of new taxes and duties etc. shall be compensated to bidder in addition to our price. Kindly confirm please.	This is a firm price tender. Tender conditions prevail. Any extra expenditure/ efforts because of any change in requirement specified in the scope of work will be on mutually agreed terms and conditions. Applicability of new taxes & duties is sufficiently covered under various clause of GTC. Any extra expenditure/ efforts because of any change in codes/standards within contractual period will be paid accordingly.
19	TB	CLAUSE 15.4	Physical document	Clarification	We understand that only the following documents in original physical form to be submitted as per tender. i) Original EMD/Bid Security along with 2(two) copies) (if applicable). ii) Power of Attorney (POA) in favour of the bid signatory for signing the bid digitally (if applicable. iii) Printed catalogue and Literature, if any. Kindly confirm please.	Confirmed

20	VOLUME-I Part-III SECTION-1	3.4 (b)	Specifications of electrical system	Clarification	No technical specifications found for major electrical items in the tender documents. Client to provide the same as mentioned in Volume – II : Technical	Kindly refer IFB no. CPI8240P19. Technical documents available in Volume – II.(DOC_CPI8240P19-Page 125 of 379)
21	VOLUME-I Part-III SECTION-1	4.0 (e), (f), (g)	Scope of supply for Electrical Package	Clarification	As mentioned in the said tender document electrical cable, cable tray, UPS power supply and Lighting power supply from outer battery limit to the inside battery limit of MPC-3 package tie in point shall be in other's scope. Hence, we understand that client shall provide power supply of above items to MPC3 substation and Supply, Installation/Laying and Termination of above items are not in the scope of bidder. Client to confirm the above.	All electrical items within the package shall be supplied and installed by Bidder.
22	VOLUME-I Part-III SECTION-1	6.0 (b)	Design basis for complete Package engineering	Clarification	No design basis, technical specifications, drawings etc. found in Volume-II. Client to provide the same.	Kindly refer IFB no. CPI8240P19. Technical documents available in Volume – II.(DOC_CPI8240P19-Page 125 of 379)
23	VOLUME-I Part-III SECTION-1	7.6	Technical Requirements - Electrical	Clarification	Specification for Electrical requirements for MPC-3 package is not found in any tender document. Client to provide the same.	Kindly refer IFB no. CPI8240P19. Technical documents available in Volume – II.(DOC_CPI8240P19-Page 125 of 379)

24	--	---	---	Clarification	We understand that the complete plant area for MPC 3 package is Hazardous area Zone 2 Gr. IIA/IIB T3 and accordingly all the field instruments shall be IS or Exd. Please confirm our understanding.	a) Raw water package and clarified water disposal pumps skid is in safe area, b) ETP & Sewage treatment plant area are located in Hazardous area, Zone-2, Gr. IIA/IIB, T3. Instruments shall be supplied with IS considering the above zone classification.
25	Vol. I Part III Section 1	3.2 g	CEMS panel	Clarification	It is indicated under this clause that CEMS panel should be provided to monitor the emission at the gas engine exhaust. Please indicate the parameters to be monitored. Also clarify whether the panel is required in Flameproof enclosure or weather proof enclosure.	Please refer the Corrigendum, Gas Engine drive has been changed to Motor drive. Hence CEMS panel is not applicable.
26	Vol. I Part III Section 1	3.2 j	F & G detectors	Clarification	It is indicated under this clause that F & G detectors in clarified water pump house shall be supplied by MPC contractor. Please indicate the no. & type of detector required.	F&G detectors are not applicable since the Gas engine drive is changed to motor drive.
27	Vol. II Technical Functiona 1 specificati on for package instrumen	1.16	Cable Trays	Clarification	We understand that the Cable Tray shall be of FRP. The trays within building/shed can be without cover and the tray installed in open area shall be with cover. Please confirm our understanding.	Confirmed

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28	----	----	-----	Clarification	We understand that the Junction Box for IS signal shall have enclosure protection WP IP 65 and that for Non IS signal & Power shall have enclosure protection Exd. The MOC of JB shall be LM 6 Die cast aluminum. Please confirm our understanding.	Confirmed. JB MOC shall be SS 316
29	---	----	-----	Clarification	We understand that Cable gland of MOC Nickle plated brass with PVC hood is acceptable. Please confirm our understanding.	Confirmed
30	--	-----	-----	Clarification	Vendor list for Instrumentation item have not been provided in the tender document. Request you to provide the same.	There is no approved list of vendors in this project.
31	Vol. I Part III Section 1	Clause no. 3.6	List of mandatory spares	Clarification	Mandatory spare requirement for Instrumentation items have not been specified hence we understand that the same are not required.	Bidder shall refer the clause no. 3.6 of TOR, Page no. 11 of 29 for Spares philosophy.
32	---	-----	-----	Clarification	Please provide the Legend sheet for the P & ID given in the tender document.	Bidder shall refer attached P&ID legend
33	P & ID No. 17039-EK-P-DW-0206-3	----	DG of P & ID	Clarification	In the referred P & ID the first isolation valves of PI & PT have been named DG. Please clarify the meaning of DG.	DG shall be read as D which refers to Double Block and Bleed Valve as per legend sheet

34	Vol. I Part III Section 1	4.0 f	Scope of supply of UPS for I&C panels	Clarification	<p>It is indicated under this clause “Providing UPS power supply for Instrumentation & control, control panel at one tie-in-point specified by MPC contractor will be provided by others.”</p> <p>We understand that bidder has to provide UPS the control system will be provided by others. Please inform us the tentative load of control system to be considered for UPS.</p>	<p>Bidder understanding is not correct.</p> <p>If any UPS power required for Panels supplied by MPC3 contractor; the power supply will be provided by Others at the battery limit and further distribution of supply inside the skid is in Bidder’s scope.</p>
35	Vol. I Part III Section 1	4.0 f	Details of control systems	Clarification	<p>With reference to point 11 above if bidder has to supply control system then please provide following details.</p> <p>(a) Type of control system i.e whether we have to supply PLC or DCS</p> <p>(b) Whether the control system PLC/DCS has to be in redundant configuration or Non redundant configuration, No. of work station, whether the control system required shall be SIL certified or Non SIL certified.</p> <p>(c) Whether the control system has to be interfaced with any existing control system if yes then the protocol on which it has to be interfaced, the distance of existing system from the bidder’s control system.</p> <p>(d) We understand that the control system has to be installed in the containerized control room as shown in the overall layout drawing, please confirm.</p>	<p>a) PLC control system is to be supplied.</p> <p>b) PLC shall be redundant configuration. There shall be two numbers of work stations. Control System shall be SIL-2 rated</p> <p>c) Yes, Panel shall be interfaced with master control system via Ethernet/Modbus TCP/IP. The approximate distance shall be 500mtrs.</p> <p>d) Confirmed that control system has to be installed in the containerized control room as shown in the overall layout drawing.</p>

*******END OF CORRIGENDUM NO.2*******