

MANGALORE REFINERY & PETROCHEMICALS LTD.
(A subsidiary of Oil & Natural Gas Corpn. Ltd – ONGC)
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Addendum-2 dated 13.12.2023

To

Tender No. 320000752 dated 31.10.2023

For

Main EPC Package For MRPL Refinery Complex
Power System Upgradation Project

With reference to the above tender, bidders are requested to note the following:

The items, conditions, specification and stipulations of the Bidding Documents and the modified portion to the extent indicated in

- a) Annexure-I: Commercial Addendum
- b) Annexure-II: Technical Addendum
- c) Annexure-III: Reply to Pre-bid Queries

The implications of the same, elsewhere in the tender shall be taken care of appropriately by the bidders. All other terms and conditions, stipulations and specifications of tender shall remain unaltered.

Note:

Bidder shall submit copy of these documents along with the techno-commercial bid, **duly signed and stamped**, as a token of having read and understood the same.

Addendum-2**Annexure-I: Commercial Addendum**

<u>Sl. No.</u>	<u>Reference Section No./ Clause No.</u>	<u>Addition/Deletion/Modification</u>
1.	<u>Vol. I of II; Page 1 of 490; Tender Download End Date & Time and Subsequent Addendum-I Dated 28.11.2023</u>	<u>The Tender Download End Date & Time shall be read as 28.12.2023, 15.00 Hrs</u>
2.	<u>Vol. I of II; Page 1 of 490; Bid Closing Date & Time and Subsequent Addendum-I Dated 28.11.2023</u>	<u>The Bid Closing Date & Time shall be read as 28.12.2023, 15.00 Hrs</u>
3.	<u>Vol. I of II; Page 1 of 490; Un-Priced Bid Opening Date & Time and Subsequent Addendum-I Dated 28.11.2023</u>	<u>The Un-Priced Bid Opening Date & Time shall be read as 28.12.2023, 15.30 Hrs</u>

Addendum-2

Annexure-II: Technical Addendum

<u>Sl. No.</u>	<u>Reference Section No./ Clause No.</u>	<u>Addition/Deletion/Modification</u>
1.	<u>Vol. II of II; Page 13 of 190; Clause no. 2.1.1: Electrical Scope of Work</u>	<p><u>The following items/activities shall be included in Bidder's scope of work:</u></p> <p><u>19. Following special tools & equipment shall be supplied at minimum:</u></p> <p>a) <u>Relay Monitoring Tool (Laptop) for relay programming with required software installed and all hardwares and cables to connect to relays: 1 no. for each make of relay and 2 sets of hardwares. (min configuration: i7 13th Gen Processor, 16 GB RAM, 1 TB Hard Disk SSD, min 14 inch display, with required ports to connect with relay, Windows, MS Office pre installed with relay monitoring software).</u></p> <p>b) <u>MV Megger (Fluke/Equivalent make of up to 2.5 kV rating): 2 nos.</u></p> <p>c) <u>HV Megger (Fluke/Equivalent make of up to 5 kV rating): 2 nos.</u></p> <p>d) <u>Digital Tong Tester (Fluke/Equivalent make) of range of minimum 1000 A: 2 nos.</u></p> <p>e) <u>Digital micro-amp-meter (Fluke/Equivalent make): 2 nos.</u></p> <p>f) <u>Multimeter (Fluke/Equivalent make): 10 nos.</u></p> <p>g) <u>Set of tools with tool bag (spanner set of all type, screw driver set, allen key set, torque wrench, filer, pliers of various sizes, wrench, heavy screw drivers of various sizes etc): 5 set.</u></p>

<u>Sl. No.</u>	<u>Reference Section No./ Clause No.</u>	<u>Addition/Deletion/Modification</u>
		<p>h) <u>FRP ladders of approved make (SUMIP FM1000 series or equivalent make) of 4 ft, 6 ft & 10 ft: 2 nos. of each type.</u></p> <p>i) <u>Godrej make Almirah for keeping drawings & documents: 2 nos.</u></p> <p>j) <u>Industrial Vacuum Cleaner: 2 nos.</u></p>
2.	<p><u>Vol. II of II; Page 53 of 190; Clause no. 5.1.3.12: Plain Cement Concrete</u></p>	<p><u>The following clauses shall be read as below (Clause no. b) shall remain unchanged):</u></p> <p>a) <u>75 mm thick lean concrete of grade 1:2:4 (M15 nominal mix) shall be provided under all RCC foundations except under base slab of liquid retaining structures where thickness shall be 100 mm instead of 75 mm.</u></p> <p>c) <u>PCC of grade 1:2:4 (M15 nominal mix) minimum 150 mm thickness shall be provided under all masonry wall foundations.</u></p> <p>d) <u>Plain cement concrete of grade 1:2:4 (M15 nominal mix) of min 40 mm thickness shall be provided as DPC at plinth level of all masonry walls and to be coated with 3 mm thick bitumen emulsion Acrylic based waterproofing compound (2% by weight of cement) shall be mixed in concrete used as dampproof course at plinth level of all masonry walls.</u></p>
3.	<p><u>Grid Power Transformers</u></p>	<p><u>Grid Power Transformers can have YNyn0 vector group, provided all protection system is updated by bidder in line with this change.</u></p>

<u>Sl. No.</u>	<u>Reference Section No./ Clause No.</u>	<u>Addition/Deletion/Modification</u>
4.	<u>33 kV and 220 kV Gas Insulated Switchgear (GIS)</u>	<u>The 33 kV Gas Insulated Switchgear (GIS) and 220 kV GIS along with its Local Control Cubicles (LCC) and Relay Panels shall have to be designed, engineered, supplied, installed, tested and commissioned by the respective Original Equipment Manufacturers (OEM). The power cabling/connection of all Gas Insulated Switchgears shall also be done by the OEM at site.</u>

Addendum-2

Annexure-III: Reply to Pre-bid Queries

Please refer to the next sheets

**Pre Bid Queries for MRPL E-PUBLIC Tender No.: 320000752 for
Main EPC Package for Refinery Complex Power System Upgradation Project**

Sr. No.	Clause No.	Document Clause	Subject	Queries by Bidder	Replies by Purchaser
1			Technical specification - Civil - Sand	We would like to propose for using of Manufacture Sand for all civil works including filling. Kindly confirm	Confirmed with M-sand as per IS standard.
2			Site - Trees and bushes	During the site visit we have noticed that, proposed SWYRD plot have trees of Girth 200-250mm nearly 20 nos on the perimeter of the plot to be cut and disposed including roots. We assume that no any forest clearance is required for the same. M/s.MRPL will provide the clearance to remove the same.	Bidder's assumption is correct.
3			Site - Existing earth mat and metal spread	During the site visit we have noticed that, proposed plot have earth mat and gravels spreading of 150mm thick. We assume that same will be removed and encumbrance free land will be provided to the successful bidder. Kindly confirm	Bidder to refer to point number 65 in Pre-Bid Queries in Addendum-1.
4	Vol-II, Clause No 5.1.3.12 - Page No 53 of 190	Plain cement concrete	Plain cement concrete	As per the technical norms CC 1:2:4 correspondce to nominal mix M15 not M20. Kindly confirm.	Confirmed. Please refer to Addendum-2 in this regard.
5			Site - Barrication of existing 110kV SWYRD	We assume that seperation barrication for the existing 110kV SWYRD towards proposed 220kV SWYRD will be closed before commencement of work at proposed 220kV SWYRD by M/s.MRPL. Kindly confirm If bidder to consider the same, request M/s.MRPL share the documents/drawings for the same.	Bidder to construct this barrication to segregate the new 220/33 kV S/S area from the existing 110 kV Switchyard area. Please refer to note-15 in the tender drawing for 220/33 kV Substation Layout.
6	Vol-II, Clause No 6.12, 6.13, 6.14, 6.15, 6.16 - Page No 261 to 271 of 490	Offshore - Clause No 6.12, 6.13, 6.14, 6.15, 6.16 - Page No 261 to 271 of 490	Offshore - Clause No 6.12, 6.13, 6.14, 6.15, 6.16 - Page No 261 to 271 of 490	We assume that these cluases are not applicble for the proposed SWYRD work.	Bidder's assumption is correct.
7			Site - SWYRD Drain	We consider our SWYRD storm water drain outfall point outside the fencing area within 5Mtrs. Kindly confirm	Confirmed.
8			Site - Rain water flooding	We understand that, proposed 220kV SWYRD is not prone for flooding and water retaining. Kindly confirm	Bidder's understanding is correct.
9			Soil Investigation Report - Attachment-12: Existing Geotech Report CPP-1&2 (For Reference Only)	We assume that no piling is envisaged in the project. Kindly confirm	Piling is not envisaged at present. However, as per tender requirement, the Bidder needs to conduct the geotechnical investigation, and the type of civil foundation shall be in line with GTI report/recommendation.
10	Vol-I, Pg. no. 487/490	5	Schedule of Quantities	We Kindly request to conisder the Vector Group YNyn0 instead of Dyn11. Since this being industry non standard and No OEM's in Market is having Short Circuit Type Tested for Proposed Transformer	We confirm that the Grid Power Transformers can have YNyn0 vector group, provided all protection system is updated by bidder in line with this change.
11	Vol-I, Pg. no. 42/112	268	Pre Bid Reply: ERT	The Earthing Layout provided along with Amendment is Illegible. We kindly request you to provide readable Scan Document of Earthing Layout.	No better copy is available. However, the drawing was only for reference. The existing earth grid is @ 5 m in both directions.
12			Base MVA for losses and impedence	Please confirm base MVA which is to be considered for Impedence and losses	It is mentioned in tender drawing (Z=18% on 60 MVA Base). The Addendum-1 specifies the loss figures.
13			SLD	Since Insulation coordination is to done during detailed Engineering we kindly requestv to conisder GIS LA as on optional unit price. If the same is requied the same shall be brought in Main Price Schedule	Please consider the LA as shown in the tender drawings in your bid.
14	Addendum-1, 46/112	300	Prebid reply	Please define the Major Tagged Items that has been indicated in the Payment Breakup	Please refer to tender document SP-05.
15	Addendum-1, 42/112	269	Prebid reply	Please confirm the UG facility in the Proposed SS plot area at this stage for cost conisderation and Strategy.	Only earthing conductor is existing in the proposed 220/33 kV Substation area.

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Sr. No.	Clause No.	Document Clause	Subject	Queries by Bidder	Replies by Purchaser
16			220/33 KV, 60/75MVA grid transformer	As per SLD and Tender specification, vector group Dyn11 for 60/75MVA 220/33KV Transformer, this requirement is very rare in industry and test set is not available on approved OEM, hence we propose to keep the vector Group YNyn0. Please provide confirmation.	We confirm that the Grid Power Transformers can have YNyn0 vector group, provided all protection system is updated by bidder in line with this change.
17			220/33 KV, 60/75MVA grid transformer	As per Layout & Data sheet HV cable box and LV cable box are shown at 90 Deg. We understand that we can propose HV and LV terminal (Cable box) at opposite /180 deg direction as per layout requirement.	Noted and confirmed.
18			220/33 KV, 60/75MVA grid transformer LOSS	Kindly confirm the base MVA against the mentioned loss. (as per prebid SL no 59)	The base MVA shall be the highest MVA rating of the transformer.
19			Mandatory Spare List	we found that many items mentioned in Spare list (available in tender documents) are not applicable for 33KV/220KV GIS. We will quote only which are applicable for GIS OEM.	Noted and confirmed.
20			Prebid reply and amendment	We have received the Document No. B038-999-16-50-EDB-1001 Rev No. 0 along with prebid reply, in some case there are contradictory in prebid reply and engineering design basis like for battery set etc. In this regard kindly confirm the document of precedence.	In case there is a direct conflict between two clauses, the tender document scope of work shall prevail.
21	Volume-I of II: COMMERCIAL SECTION	Form of tender, clause no. (vii)	Solvency Certificate	In the form of tender, clause no. (vii) Shall submit Solvency Certificate from a Nationalized/Scheduled bank & In Form-R (Statement of Credentials) clause no.19 –Maximum value of the Job the Contractor/ manufacturer is capable of Handling per year. (Furnish details of your financial standing together with the Bank References and necessary Solvency certificate from their banker (Nationalised) as per Bank's Modification requested: Tender documents already require exhaustive financial capabilities of the bidder such as minimum annual turnover, net worth, Liquid Assets and available credit facilities, all of the financial credentials would adequately demonstrate whether the bidder is financially capable of delivering the project. The additional requirement of solvency certificate doesn't add demonstration of financial capabilities of the bidder beyond what already demonstrated by the other financial credentials, obtaining a solvency certificate will incur substantial charges as such we request you to remove the above clauses for submission of solvency certificate.	Purchaser will prefer for Solvency Certificate as per tender.
22	Volume-I of II: COMMERCIAL SECTION		Payment Terms	The supply payments have mentioned has pro-rata basis to assist in the pro-rata basis, the bidder will submit a price breakdown of the supply item upon contract award and these breakdowns will be used for pro-rata supply items billing and payment. Please confirm	Confirmed.
23	Volume-I of II: COMMERCIAL SECTION			Please clarify what additional documentation to be submitted along with the bid apart from the declaration by the bidder for percentage of Local Content in the bidder's offer.	Please refer to "NOTICE INVITING TENDER (NIT)" in Volume-I of II.
24	Volume-II of II: TECHNICAL SECTION			800mm depth False floor to be provided for LV Switchgear area / Control and Relay Panels area / SAS Panels area / DC Charger and DCDB area / SCADA Room / Operator Room etc.,	The tender documents envisage concrete cable trench inside building also. However, the engineering options shall be finalized by the bidder.

**Pre Bid Queries for MRPL E-PUBLIC Tender No.: 320000752 for
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Sr. No.	Clause No.	Document Clause	Subject	Queries by Bidder	Replies by Purchaser
25	Volume-II of II: TECHNICAL SECTION			We reckon that each Transformer (both 220/33KV and 33/33KV) will have a separate Oil collection pit away from the Transformer plinth. Please confirm.'	Please refer to the tender drawing along with its notes.
26	Volume-II of II: TECHNICAL SECTION			We request all civil works and erection of substation and 33 KV cables construction will be made on Pro-rata basis of the contractual Lumpsum amount based on percent completion as agreed between contractor and the MRPL	Please refer to the payment terms in Volume-I of II: Commercial Section.
27	Volume-II of II: TECHNICAL SECTION			Is Bay 08 / 220KV GIS to be supplied under this contract including its Control and Relay Panel & SAS. Please clarify and confirm.	Bay 08 shall be supplied under this contract along with its control & relay panels & SAS.
28	Volume-II of II: TECHNICAL SECTION			From the Proposed New Substation please provide details regarding the number of 33 KV Circuits and the route length of each circuit to be laid and terminated with existing facilities. Please clarify.	For number of 33 kV circuits, please refer to tender SLD or P&M Diagram. For route length, please refer to Volume-II of II, Scope of Work.
29	Volume-II of II: TECHNICAL SECTION			How many 33KV circuits to be laid and terminated within the existing facilities such as ICT2 / CPP3 etc. Please clarify	For number of 33 kV circuits, please refer to tender SLD or P&M Diagram.
30	Volume-II of II: TECHNICAL SECTION			Regarding LVAC Supply to New Substation, Please provide approximate cable route length from existing Refinery complex / Power supply tapping point.	Approximately 400 m.
31	Volume-II of II: TECHNICAL SECTION			Please clarify, new 33KV adopter cubicle is of AIS type or GIS type.	AIS type.
32	Volume-I 28 of 490	14	Earnest Money Deposit (EMD) of amount Rs. 65,52,000/- in the form of Bank guarantee/ Demand Draft/ NEFT/Online payment.	We request you to kindly consider the option of submitting Bid Security in the form of Bid Securing Declaration in line with Government of India notification and as being followed by other Central / State utilities.	Please follow Tender Conditions.
33	Volume-I 114 of 490	2.1.1.0	Security Deposit : Security Deposit in an amount equivalent to 10% of the Lumpsum Price of the contract.	We refer to the subject clause regarding submission of Performance Security for a value of 10% of the contract value. We request you to kindly consider reducing the same to 3% in line with the Government of India notification and the recent tenders floated by major Central / State utilities.	Please follow Tender Conditions. (The rule has been revised recently)
34	Volume-I 318 of 490	14.11	Price Basis Prices quoted by the bidder shall remain firm and fixed for the entire period of execution of the contract.	We request you to kindly consider the applicability of IEEMA Price Variation for all major supplies and installation including civil works in line with the practice being followed by other Central / State utilities.	Please follow Tender Conditions.
35	Volume-I 382 of 490	2.0	Mobilisation Advance shall be paid recoverable interest bearing Mobilization Advance up to a maximum of 10% (Ten Percent) of awarded Contract Value	We request you to kindly consider offering interest free mobilisation advance. This will help in better cash flow management. Kindly confirm.	Please follow Tender Conditions.

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Sr. No.	Clause No.	Document Clause	Subject	Queries by Bidder	Replies by Purchaser
36	Volume-II 149 of 362	17.2.3	Type tests : The Contractor shall carry out type tests listed for the respective equipment. The charges for each of these type tests shall be considered in the price bid. Alternatively, the Contractor may submit the reports of the type tests listed for the respective equipment which must have been carried out within last five (5) years from the date of bid opening. In case the Contractor is not able to submit report of the type test(s) conducted within last five years from the date of bid opening, or in case the type test report(s) are not found to be meeting the specification requirements, the Contractor shall conduct all such tests under this contract free of cost and submit the reports for approval	We request you to consider the type test validity for 10 years for all equipments in line with the Guide lines issued by CEA and as being followed by most of the Central / state Power utilities. Kindly also confirm that no repetition of type tests is required in case there is no change in design.	CEA guidelines are acceptable.
37	Volume-I 382-388 of 490	1.0	Annexure - III to Special Conditions of Contract Payment Terms for contracts on EPC LSTK basis	We refer to the Terms of payment mentioned in the documents. We understand that 100% GST shall be released along with the progressive payments. Kindly confirm our understanding is correct.	Bidder's understanding is correct.
38		General	Labour Cess	We understand that Labour cess shall be applicable only on the Services portion and not on the complete contract value. Kindly confirm our understanding is correct.	Shall be as per prevailing laws.
39		General	Adjustment Of Advance Bank Guarantee	We understand that the Advance bank guarantee shall allowed to be adjusted / reduced every quarter. Kindly confirm our understanding is correct.	Please follow Tender Conditions.
40	P.g.no:8/490	5.0	Bidder Qualification Criteria (BQC)	We Kindly request to revise/Amend the BQC as below Notes: 1) "Similar work" is defined as experience of having carried out Engineering, Procurement, Construction, Erection, Testing and Commissioning of Substation/Switchyard having system voltage of 220 kV or above (GIS SS having minimum 6 Bays) . Satisfactory Performance for 2 Years to be submitted. 2. Work orders submitted and satisfying similar work for Past experience criteria of BQC shall be of PSU or Govt department or Public Ltd during the last 7 years ending last day of the month previous to the one in which tender was invited.	Please follow Tender Conditions.

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Sr. No.	Clause No.	Document Clause	Subject	Queries by Bidder	Replies by Purchaser
41			New Clause : Deemed Acceptance	We kindly request to include new clause for Deemed acceptance, in case of delay in commissioning for reasons not attributable to Bidder from 30 days of Mechanical Completion. A) Request to release Final Payment against submission of BG and DLP will start from the date of Deemed acceptance.	No new clause is acceptable, please follow Tender conditions. (A) If Commissioning and performance test is delayed beyond 5 months (as per tendered time schedule) from Mechanical Completion for reasons not attributable to bidder, payment towards these milestones will be released against submission of BG of equivalent amount valid for defect liability period as stipulated in the tender.
42	P.g.no:26/490	12.0	PRICE / SCHEDULE OF RATES (SOR) / BILL OF QUANTITIES	We kindly request to consider Price variation on Transformer as per IEEMA formula. The base month shall be 1 month prior to Bid Submission	Please follow Tender Conditions.
43	P.g.no:382/490	2.0	Mobilization Advance	We kindly request to consider Interest Free Mobilization Advance as per Industry Standardr	Please follow Tender Conditions.