

MANGALORE REFINERY & PETROCHEMICALS LTD.

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Triune Energy Services

Addendum - 2

To

MRPL Tender No. 96750000C1A dated 31.05.2021

TENDER FOR CONSTRUCTION FOR CCR-1 REGENERATOR REVAMP PROJECT AT MRPL, MANGALURU, KARNATAKA

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

Bidders are requested to refer below enclosed response to Pre-bid queries.

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

Queries for CCR - 1 Regenerator Revamp Project at MRPL Mangaluru Karnataka

| SI. No. | Ref. | Description | Query | |
|------------|--|--|--|--|
| 1 | Technical Vol 7 | SOQ - Mechanical, Piping, Civil, Structural, Electrical and Instrumentation | Kindly confirm whether all the items and quantities mentioned in the SOQ shall be provided as free issue material to the bidder, only the items mentioned under bulk items shall be in the scope of supply of the bidder viz. gaskets, nuts and bolts etc. | |
| 2 | Technical Vol 7 | SOQ - Mechanical, Piping, Civil, Structural, Electrical and Instrumentation | As the Design and Engineering is being carried out by M/s. MRPL / TESPL kindly confirm that work executed beyond the mentioned quantities in SOQ shall be paid separately on pro-rata basis | Bidder to note ti of quantiities ir Any changes be |
| 3 | Note 4 of SP-0 | P-0 This Lumpsum Price is inclusive of Pre-commissioning / As the required equipments is being supplied by M/s. MRPL / TESPL, supply of all kinds of spares, first fill c Commissioning Spares, Mandatory Spares, and Engineering Spares and first fill & 6 months Consumables / Catalysts / Chemicals and Operation Spares during Defect Liability Period. However, the Lumpsum Price shall be exclusive of 2 Years Recommended Spares for Operation and Maintenance required beyond the Defect Liability Period. | | |
| 4 | | Installation of New Equipments, Replacement of Equipments, Dismantling of Equipments | Kindly furnish equipment wise details viz weight of equipment, dimensions and elevation to be installed on / removed from | Information not from MRPL site |
| 5 | Technical Vol 1 Scope of work Mechanical Annexure 1 | Modification of equipments | The scope of work shall be limited to the work mentioned in Annexure 1 of the respective equipments. Any other work required shall be carried out by the bidder and shall be paid separately. Kindly confirm | Bidder understa |
| 6 | 9675-10-CL-001 (Technical Check List) | Equipment work | As per point no.1.4 of technical checklist, "Bidder understands that modification, rectification, replacement erection, installation and construction work shall be carried out as per the specifications and drawings included herein this tender." At this stage it is not possible to confirm all the rectifications / modifications so bidder will quote on the basis of quantities stated in SOQ only. Any further addition of quantity has to be taken care by client / consultant with respect to quantity of material / cost. | Bidder to confir the specification |

| TES Reply |
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| esponse eat tracing system, Additional vertical panel, MV ontrol cables shall be provided as free issue material to |
| ctrical bulk items like Earthing material, LCS, Cable glands etc. are in bidder's scope of supply. onse |
| ee Issue Material (FIM) except Gasket, Bolts, nuts ad paintings, pipe supports such as L post, T post es, guide plates, shim/base plate, teflon & graphite ems require which need to complete total pipe suppor (expect springs). tural Response |
| e of materials for Civil-Structural works is clearly the item descriptions of Civil-Structural SOQ. |
| |
| the this is a lumpsum fixed contract, any increase in bill in SOQ upto 10% has to be part of lumpsum price. beyond 10% will be as per tender. |
| above |
| |
| |
| not mentioned in TBP shall be collected by Bidder site. |
| standing is correct |
| fium og geled in Taskaigel Did Deskoge hvursfaming |
| firm as asked in Technical Bid Package by referring tions mentioned in the clause 1.4. |

| SI. No. | Ref. | Description | Query | | |
|------------|---------------------------------------|------------------|--|-------------------|--|
| | | | Bidder understands that modifications are to be done for following equipments only: | | |
| | | | 1. Lock Hopper No. 1 &2 | | |
| | | | 2. Lift Engager No. 1&2 | | |
| | | | 3. Surge Hopper | | |
| | | | 4. Regeneration Tower | | |
| | | | Free issued new equipments for installation are: | | |
| | | | 1. Preheat gas Heater | | |
| | | | 2. Air Heater | | |
| | | | 3. Vent Gas Cooler | | |
| | | | 4. Regeneration cooler | - | |
| _ | 9675-02-SOW- | Equipment work | 5. Vent Drums | | |
| 7 | 201 Cl. No. 6 | | Dismantling and Replacing with new equipments involve following: | Bidder understa | |
| | 201 0111010 | | 1. Electric heater | | |
| | | | 2. Flow control hopper | 4 | |
| | | | 3. 2 Nos. Coalescers | - | |
| | | | 4. 6 Nos. Filters | - | |
| | | | 5. Lift gas blower | | |
| | | | 6. Air dryer package | | |
| | | | 7. Dust collector | | |
| | | | 8. Disengaging hopper | | |
| | | | 9. Organic chloride injection pump | | |
| | | | 10. Packinox | | |
| | | | Kindly confirm | | |
| | 9675-02-SOW- 201 Cl. 6.3 Note-1 | Dismantling work | Removal and demolition of existing items includes the removal of complete associated piping with the equipments | It will be provid | |
| 8 | | | under supervision of alpha level. | | |
| | | | Kindly provide us with the necessary details to enable us to account for this demolished piping. | bidder is free to | |
| | | New Equipments | There are many new items like regeneration coolers/ coalescers etc which will be supplied from client end. But as per | | |
| | | | tender requirements bidder to advise some design specifications, size etc. and same has been marked as VTA (Vendor | l | |
| | | | to advise) for respective items. We understand that design of any equipment is not under the scope of bidder. | | |
| 9 | | | | Diddon yn donoto | |
| 9 | | | So bidder will quote based on items considered in SOQ only but if any new item/ equipment is to be added as per | Bidder understa | |
| | | | technical requirements arising during construction same will be taken care by client/ consultant regarding material/ | | |
| | | | | | |
| | | | cost. | | |
| | | | There are many small pipe lengths, pipe fitting components (Valves, Nut, Bolts etc.) to be supplied from contractor's | | |
| | 9675-03-SOQ- 001/02/03 | Supply Items | end as per SOQ of piping works and as per document no. 9675-10-CL-001(Technical Check List) point no. 3 bidder to | - | |
| | | | supply items according to SOQ provided after ensuring the quantity provided in SOQ. | hydrotest, insta | |
| | | | | work is in contra | |
| 10 | | | At this stage it will not be possible to exactly validate the quantity and applicability of such items only from P&IDs | Latest Piping So | |
| 10 | | | attached with tender. Hence Bidder will quote based on SOQ only but if any new item is to be added as per technical | | |
| | | | requirements arising during construction same will be taken care by client/ consultant regarding material/ cost. | | |
| | | | | 1 | |

| TES Reply |
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| rstanding is correct |
| wided by Alpha level to a successful bidder. However, e to visit site to collect first hand information. |
| rstanding is correct |
| entioned as Free Issue Material (FIM) will be provided /IRPL.except Bulk items and items required for isstallation commission which need to complete the ontractor's scope. |
| g SOQ provided as Addendum1 |
| |

| Sl. No. | Ref. | Description | Query | TES Reply |
|------------|------|----------------|--|--|
| 11 | | Civil | We are unable to understand the complete scope of work and check the BOQ provided along with the tender document under Civil head in absence of the following documents: Plot plan drawing (Dwg. No9675-00-04-A0-4001-A) Dwg. No9675-05-OT-001-SOW referred to the Schedule of Quantities for Civil & Structural Works (Doc. No. 9675-05-05-001). Foundation drawing for new Organic Chloride Injection Pump along with Pump GA (GA-2452 A/B). Foundation drawing for Modification/Strengthening for Lift Gas Blower along with GA. Total set of drawing for Removal/Dismantling of structural steel work for safe removal of existing equipments and installation of new equipments at different elevation from the CCR-1 structure including Demolition drawing of CCR-1 structure. Modified steel drawing of CCR-1 structure. Equipment support location plan and details. MRPL Civil/Structural design Basis. Paving drawing clearly indicating the Demolition part and the new paving to be constructed. All the Foundation Location Plan required to be constructed including foundation G and detail. This may please be clarified if any area filling is required for new pavement / road construction. In absence of the detail information in tender, bidder will quote quantity of steel reinforcements as mentioned in SOQ only but if any extra quantity of reinforcement for RCC is to be added as per technical requirements arising during construction same will be taken care by client/ consultant regarding supply of material material/ cost. You are kindly requested to kindly provide the above mentioned documents / Drawings and confirmations to enable us to proceed further. | 4001-0, which is already included in the bid document (page 857 of 1194). Point No. 2: Please read the Scope of work document no. as 9675-05-SOW-001 (CONSTRUCTION SCOPE OF WORK (CIVIL/STRUCTURAL & GENERAL CIVIL), which is already included in the bid document (page 96 of 1194), instead of 9675-05-OT-001-SOW. Point Nos. 3 to 10: All such drawings and details are meant for post award stage. Refer clause no. 5 of Civil Structural scope of work document no. 9675-05-SOW-001 (page no. 100 of 1194 of technical bid document). However, SOQ is inclusive of relevant quantities. Point Nos. 11: The existing area is paved, and local demolition and backfilling only is envisaged for foundations and trenches etc. No, overall area filling is envisaged. Point Nos. 12: Refer response given in Sno 2 above |
| 12 | | Time Extension | Considering the present pandemic situation PAN India, we would request you to kindly extend the date of submission of the bid till 19.07.2021 to enable us to obtain rates of the bought out items and to have a detailed understanding of the job involvement which shall help us in preparing and submission of a competitive offer from our end. | Bid Submission date extended up to 05.08.2021 |

| | Additional Queries | | | |
|------------|--|--|---|--|
| S1. No. | Ref. | Description | Query | TES |
| 1 | | All the New Equipment GA Drawing as Per Note -2 shall be provided post award. | Kindly confirm the Elevation, Size and Weight for calculation of Crane and Manpower requirement. Without the details quantum of work cannot be ascertained. The details are also not available in Mechanical Erection standard number 9675-02-SOQ-001. Kindly furnish the same. For erection of New Equipments, kindly confirm whether any structural platform is required to be extended further from the Existing structure. | Bidder has framed the query from table contents, b tender to have compehensive understanding of scope. attached with cionstruction tender shall be referred. S and shall be refferred. For balance equipment GA with input. Bidder to refer equipment lay out drawing / structu additional structure. |
| 2 | | SL.no. 1 to 10 Nos Dismantling of Existing equipment remarks as "Deleted". | Bidder understands that all the Deleted listed items are not in scope of Bidder for dismantling. | Bidder's understanding to not correct Bidder to refer Cl No 6.6 Point xiv. of documet no 967 understanding of dismantling scope |
| 3 | Technical Vol 1 CL. No6.4 PG 70 of 1194 | with new exchanger. Removal of existing | you to kindly advise on the methodology of dismantling of the same. 3. Kindly confirm whether the quantum of Piping work related to installation of New Packinox exchanger (incl dismantling of the old equipment) is considered in the Piping SOQ. | Indentical Packinox exchanger shall be replaced wi Required structural memebers / gratings/ hand rails same strucural memebers shall be reinstalled after th Dismantling of existing Packinox shall be carried of Yes, this has been considered in Piping BOQ. |
| 4 | Technical Vol 1 CL. No Q PG 25 of 1194 | Construction of barricading during construction period and removal of the same after construction is over. | Kindly specify the unit barricading standard. | Bidder to submit their own barricading standard duri |
| 5 | Technical Vol 1 Annexure-1 PG 81 of 1194 | Modification of equipments | Kindly confirm that all modification work shall be carried out on the existing installed equipments only. No work shall be carried out on dismantled equipments. | Bidder understanding is correct |
| 6 | Technical Vol 1 CL. No6.4 PG 875 of 1194 | CIVIL | Demolishing of Concrete for electrical cable trench shown in tender but existing trench having live cables. Kindly confirm the scope of work to bidder. | Bidder to note that there are two types of demolition a demolition layout drawing (Ref. drawing No. 9675-00- Demolition scope is clearly mentioned in these notes. <u>Clarification</u> :- (1) Demolition Marked with Note-2 is deolition of pave trench by the side of existing Instrumentation cable to demolished (evident from cloud marking on the drawi (2) Demolition Marked with Note-3 is only removal of trench Cover. New additional electrical cables shall be RCC covers of trench. After completion of electrical we concrete shall be laid over the pre cast cover to maint |
| 7 | | Equipment | Kindly confirm whether new piping works and all new equipments can be erected during pre-shutdown duration or not. Alternatively kindly specify the quantum of pre-shutdown and shutdown works. | Bidder to propose list activities to be carried out durin with MRPL's operational Deptt. |

S REPLY

s, bidder is requested to go through the entire construction pe. However, for elevation of equipment, equipment lay out 1. Size and weight of some equipment are provided in MDS with weight and size shall provided on receipt of vendor

ctural drawing attached with tender for the requirement of

675-02-SOW-201 attached with Contract for detail

with new on existing structure having bolted connection. ils shall be removed during the removal of Packinox and the installation of Packinox.

l out under the supervision of Alpha Level.

aring cinstrcution for approval by EPCM/ MRPL.

n markup identified with Note-2 and Note-3 in the 00-04-A0-4002 included with the bid). es. However it is again clarified as below:

avement for construction of new Instrumentation Cable e trench. The existing instrumentation trench is NOT to be wing).

of screed concrete from the top of existing Electrical be laid in the existing trench after opening the precast work, the trench cover is to be reinstalled and new screed intain the level of pavement.

ring Pre Shutdown and during Shutdown in consultation

| 8 | Construction contractor, during first three days of shutdown period shall collect from site & provide health check report / corroded thickness report of following existing vessels wherein modification & rectification work is envisaged as per specification and drawings to EPCM to provide MAWP for each vessel for hydro testing. Regeneration Tower Nozzles & internals modification (Eqpt. Tag No. DC-2451) Lock Hopper No 1 (Eqpt. Tag No. FA- 2451) Lift Engager No 1 (Eqpt. Tag No. FA- 2452) Surge Hopper (Eqpt. Tag No. FA- 2455) Lock Hopper No 2 (Eqpt. Tag No. FA- 2456) Lift Engager No 2 (Eqpt. Tag No. FA- 2457) | Kindly confirm whether thickness gauging is to be carried out for the following equipments only : Regeneration Tower (Eqpt. Tag No. DC-2451) Lock Hopper No 1 (Eqpt. Tag No. FA-2451) Lift Engager No 1 (Eqpt. Tag No. FA-2452) Surge Hopper (Eqpt. Tag No. FA-2455) Lock Hopper No 2 (Eqpt. Tag No. FA-2456) Lift Engager No 2 (Eqpt. Tag No. FA-2457) | Confirmed |
|----|---|---|---|
| 9 | Identify the requirement of deck extension(s) as envisaged to carryout dismantling and removal of existing material, modification, rectification, replacement / fabrication work locally as required. | Kindly specify the quantum of job requirement or indicate the BOQ item wherein the same is considered. | Bidder to identify deck extension requirement if any o assess the quantum of work. |
| 10 | Contractor shall provide necessary barricading of the area of fabrication, construction, and erection for protection and safe installation of facilities complying with HSE requirements of MRPL | Kindly specify the quantum of barricading area / works to be carried out at fabrication yard. Kindly also specify whether the same is within the refinery premises or not. | Bidder to visit site decide quantum of barricading ar |
| 11 | Chemical Cleaning | Kindly specify the quantum of chemical cleaning to be carried out and the required specification to be followed. | Bidder to refer specific clauses pertaining to requirem Tender. |
| 12 | Time extension | Please note that additional time is required for preparation and submission of a competitive offer from our end. Hence we request you to kindly extend the date of submission of the offer till 05.08.2021 . We would also request you to kindly reply to our queries raised vide email dated 09.06.2021 as the same is unanswered till date. | Bid submission date is extended till 05.08.2021. No f |

ny during dismantling and removal of existing material and

area in consultation with MRPL.

ement of chemical cleaning provided in Construction

No further extension shall be provided.