



# मंगलूर रिफाइनरी एण्ड पेट्रोकेमिकल्स लिमिटेड

MANGALORE REFINERY & PETROCHEMICALS LTD.

(ऑयल एण्ड नेचुरल गैस कॉर्पोरेशन लिमिटेड की सहायक कंपनी )  
(A Subsidiary of Oil and Natural Gas Corporation Ltd.)

## **Addendum 05**

**To**

**MRPL Tender No. 3700004615 dated 07.02.2023**

**Tender for Tender for Consultancy Services for setting up 2G Bio ethanol Plant at Harihar Karnataka.**

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

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

i) Annexure -I – 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:**

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.

**Annexure -I: Reply to bid Queries (II sets) (Pre-bid Meeting held on 21.02.2023)**

MRPL Tender No. 3700004615 dated 07.02.2023

CONSULTANCY SERVICES FOR SETTING UP 2G BIO ETHANOL PLANT AT HARIHAR, KARNATAKA

SL NO.	BIDDING DOCUMENT		SUBJECT	Bidder's Query	Owner's Reply
	SI	PAGE NO.			
1	297 of 312	Exhibit-9: Clause No.1.2	Overseas visits	We are not anticipating any overseas visits from the Consultant's end and hence not considering any expenses related to the same in the cost. This is also in line with the requirement spelt out under "Owner's obligation". Please confirm.	Please refer the Exhibit 9 clause No. 1.2 and 1.3 clearly defined.
2	297 of 312	Exhibit-9: 'Clause No.1.6	additional compensation	Client is requested to consider the following addition (highlighted in red) and accordingly modify the said clause. This is requested as the same is followed for all PSU tenders including MRPL. CONSULTANT shall be entitled for additional compensation for services as per diem rates as quoted separately in FORM SP-1 (subject to negotiation and acceptance by OWNER) for: <b>a. Scope of services for the extended period beyond contractual completion date of the PROJECT, for reasons not attributable to Consultant.</b> a. Any additional services desired by MRPL beyond the agreed scope and /or b. Providing assistance to MRPL, as per cl 50 under D.1-Scope of Service of Exhibit-2, beyond two years after Mechanical Completion of the facilities covered in this contract. Kindly confirm.	<b>New clause is not acceptable, please follow tender conditions.</b>
3	297 of 312	Exhibit-9: 'Clause No.1.5	Remuneration: "Price quoted by the Bidder.....Exhibit-4, Price Reduction Schedule"	In reference to Notes of SP-0, the said clause under Remuneration will only be applicable if the reason of delay is solely attributable to PMC Consultant. In case of delay for any other reason not solely attributable to PMC Consultant, compensation will be applicable as per per diem rates quoted under SP-1. Please confirm.	Please follow tender conditions
4	297 of 312	Exhibit-9: 'Clause No.1.7 ©	Per Diem rate	Client is requested to consider that the per diem rate to be quoted under Form-SP-1 will be exclusive of travel cost and its associated expenses like lodging, boarding, living allowance, local transport etc. as it is not possible to estimate the same without knowing the duration of visit. Please confirm.	Please follow the Tender conditions

SL NO.	BIDDING DOCUMENT		SUBJECT	Bidder's Query	Owner's Reply
5	108 of 312	Exhibit 1: Project Description,	"The Licensor has submitted the Basic Design Engineering Package (BEDP). Based on the Licensors BEDP, Detailed Feasibility Report has been prepared including the OSBL portion. However, licensor has updated the BEDP with major changes in the Distillation section and incorporation of Power generation system utilizing waste heat."	MRPL to provide the contents of the final BDEP provided by Licensor.	Will be provided to the successful bidder
6	108 of 312	Exhibit 1: Project Description,	"Gasifier and Compression - The gas supply used for this process is a syngas generated by the gasification of corn cob, cotton stalk, and other biomass."	MRPL to clarify what is the other Biomass and also clarify that all the feedstocks ( corn cob, cotton stalk, and other biomasses) are considered by Licensor while preparing the final BDEP to MRPL.	<b>Other Biomass is any biomass suitable as gasifier feed</b>
7	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Biomass receiving and storage, warehouse" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	The Biomass receiving and storage details and details of other facilities provided in the DFR will be provided to the successful bidder
8	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Gasification – Feed Preparation and Drying System" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Gasifier is a proprietary item supply by the Licensor. The scope of gasifier system will be provided to the successful bidder
9	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Gasification – Train of Gasifiers" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Gasifier is a proprietary item supply by the Licensor. The scope of gasifier system will be provided to the successful bidder
10	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Gasification – Bio Char handling" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Initial handling of Bio Char is considered in the DFR. Further disposal of Bio-Char as per the market requirement to be developed by the consultant
11	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Gas Treatment – Compression System, TSA, 3 Way Bed Unit, Buffer Tank" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
12	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Gas Distribution to Fermentation" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
13	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Bioreactors, Cell Recycle, Inoculator (with Cell Recycle), Additives/Chemicals Loading and unloading facilities, Tanks & Dosing." facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
14	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Bleed Storage/Fusel Oil" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum

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15	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Scrubber, Broth, DRW and CIP area" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
16	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Thermal Oxidizer and Boiler and Power generation (CPP)" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
17	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "Products/Byproducts Intermediate and Product storage tanks, " facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
18	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK."	MRPL to confirm that complete process design / equipment wise specifications of the "WWTP / ZLD, Solid waste handling " facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
19	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK." And Exhibit 1: Project Description, 2.0 Facilities envisaged, Block Diagram, Page number 110 of 312	Following facilities are listed in the Block Diagram : 1. Bio Gas 2. Fermentation RO unit 3. Methanol storage The above facilities are not listed in the LSTK Packages listed under Consultant scope of work. MRPL to Clarify these packages are covered under which package?	Bidder to refer to the scope of the licensor provided as addendum
20	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK." and Exhibit 1: Project Description, 2.0 Facilities envisaged, Block Diagram, Page number 110 of 312	MRPL to confirm that complete process design / equipment wise specifications of the "Biogas" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
21	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK." and Exhibit 1: Project Description, 2.0 Facilities envisaged, Block Diagram, Page number 110 of 312	MRPL to confirm that complete process design / equipment wise specifications of the "Fermentation RO unit" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
22	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of LSTK." and Exhibit 1: Project Description, 2.0 Facilities envisaged, Block Diagram, Page number 110 of 312	MRPL to confirm that complete process design / equipment wise specifications of the "Methanol storage" facility shall be included in the BDEP to be provided by MRPL to consultant after award.	Bidder to refer to the scope of the licensor provided as addendum
23	113 of 312	1.0 Consultant Scope of Work	"Scope areas under the main contractor of EPCM- Any other not covered under LSTK scope."	MRPL to specifically provide what are the other sections not covered in LSTK scope.	Please refer to the scope of Work for LSTK/EPCM in the tender document

SL NO.	BIDDING DOCUMENT		SUBJECT	Bidder's Query	Owner's Reply
24	115 of 312	1.0 Consultant Scope of Work	<p>"It is not the intent of this document to completely specify all details services required during engineering, manufacture and construction."</p> <p>And</p> <p>" Any additional facility, services which are not specifically mentioned here, but are required to make the facility complete in every respect in accordance with the intent and technical specification and for safe operation and guaranteed performance, shall be covered under the scope of work."</p>	MRPL to specifically provide what are the other facilities not currently covered in LSTK scope or EPCM scope.	Please refer to the scope of Work for LSTK/EPCM in the tender document
25	117 of 312	2.0 Consultant Scope of Work- PMC	"E. Pre-commissioning and Commissioning, Start up and Assistance in Hydraulic guarantee Test. Performance Guarantee test run."	Under PMC Role for consultant, Pre-commissioning, commissioning, Start up are to be done by LSTK Contractor. Consultant shall ensure that it is done by LSTK Contractor.	Please follow tender conditions
26	120 of 312	2.0 Consultant Scope of Work- PMC	"B1,6, CONSULTANT shall prepare detailed operating manual based on technology supplier/ operating instructions/guidelines and ensure its completeness.."	Under PMC Role for consultant, Operating manual is to be prepared by LSTK Contractor. Consultant shall ensure completeness.	Please follow tender conditions
27	135 of 312	3.0 Consultant Scope of Work- EPCM	"The consultant scope of work for EPCM portion shall broadly include detail engineering, Procurement, Construction management, Mechanical completion, pre commissioning, Start up, commissioning of the EPCM scope and closure of all contracts."	EIL understands that assistance in pre commissioning, Start up, commissioning is sought from consultant with respect to this clause.	Please follow tender conditions
28	138 of 312	3.0 Consultant Scope of Work- EPCM	B. Engineering; B1 Engineering Point No .10 "Any residual engineering, procurement and erection required for completion of the project in all respect"	EIL understands this requirement is to be met for the areas under agreed consultant scope of work.	Please follow the tender conditions
29	138 of 312	3.0 Consultant Scope of Work- EPCM	B. Engineering; B3.1 General, page no. 138, point no. 3; "Shall submit the as built drawings wherever required" & point no. 5 "Shall prepare the as-built drawings by taking input from the Contractors and submit all as-built drawings to OWNER – Engineering Documentation centre."	EIL understands as built drawings are to be prepared for the areas under agreed consultant scope of work.	Please follow the tender conditions