Corrigendum

To

EOI No. MRPL/CS/2022-2023/01

Expression of Interest (EoI)

From
Any Indian/Global Company/their Affiliates/Representatives

For

Detail Engineering, Supply, Installation and Commissioning of Electrolyser module/s along with all auxiliaries for production of Green Hydrogen, of capacity 500 TPA (62.5 Kg/hr), for mixing with refinery H2 network at the Refinery located in Mangalore, Karnataka, India

Detail Engineering, Supply, Installation and Commissioning of Electrolyser module/s along with all auxiliaries for production of Green Hydrogen

With reference to above Expression of Interest, applicants are requested to note the following:

The items, conditions, specification and stipulations of the EOI Document stand modified to the extent indicated in the attached amendment as per attached **annexure**. The implications of the same, elsewhere in the tender shall be taken care of appropriately by the applicants. All other terms and conditions, stipulations and specifications of EOI shall remain unaltered.

ANNEXURE- ADDENDUM TO EOI NO. MRPL/CS/2022-2023/01

Sl. No.	Reference of EOI Document				Existing Clause	Amendment
	Sec. No.	Page No.	Annexure/ Clause No.	Subject / Statement		
1.	Section-II	6 of 29	4.2	Power Supply for Green Hydrogen production	Power will be made available for the Green H2 plant at 6.6 KV/440V level.	**Revised clause shall be read as below:** Power is available in the Refinery at nameplate voltage of 6.6 KV+10% at HT level or 415V+10% at LT level. MRPL prefers to supply power at voltage level of 6.6KV+10%. Applicant shall step down the voltage to lower voltage level as required for operation of the Green Hydrogen plant. However, applicant to note that total available area is only 500m2 for the entire Green H2 plant including all required facilities/auxiliaries.

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2.	Section-III	8 of 29	6.1/6.2	Technical Eligibility Criteria	Applicant shall submit all the required documents as per the Annexure list in support of their technical and financial credentials for evaluation of EoI.	**Revised clause shall be read as below:** Applicant shall submit all the required documents as per the Annexure list in support of their technical and financial credentials for evaluation of EoI. However, submission of Deed of Joint Undertaking(DJU) is not required by the applicant for evaluation of EOI.
3.	Section-III	8 of 29	6.1	Technical Eligibility Criteria	Bidder shall be a manufacturer or a channel partner of the manufacturer of Proton Exchange Membrane (PEM)	**Revised clause shall be read as below:** Bidder shall be a manufacturer or a channel partner of the manufacturer of Proton Exchange Membrane (PEM)/Alkaline Pressurized Bipolar Technology.

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4.	Section-III	8 of 29	6.1	Technical Eligibility Criteria	The Manufacturer or the Channel partner should have supplied and installed at least one unit of electrolyser having minimum 5 **kg/hr Hydrogen production capacity** based on above technology (PEM) in last 5 years, and should have been in successful commercial operation for at least 6 (six) months prior to the last date of month previous to the one in which bids are invited. This should be corresponding to the electrolyzer type being offered to MRPL.	**Revised clause shall be read as below:** The Manufacturer or the Channel partner should have supplied and installed at least one unit of electrolyser having minimum 5 **kg/hr Hydrogen production capacity** based on above technology (PEM)/Alkaline Pressurized Bipolar Technology in last 5 years, and should have been in successful commercial operation for at least 6 (six) months prior to the last date of month previous to the one in which bids are invited. This should be corresponding to the electrolyzer type being offered offered to MRPL.

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<tr><th rowspan="2">Sl. No.</th><th colspan="4">Reference of EOI Document</th><th rowspan="2">Existing Clause</th><th rowspan="2">Amendment</th></tr>
<tr><th>Sec. No.</th><th>Page No.</th><th>Annexure/ Clause No.</th><th>Subject / Statement</th></tr>
<tr><td>5.</td><td>Section -III</td><td>9 of 29</td><td>7.1</td><td>Technical Specification</td><td>
<table>
<tr><th>Unit</th><th>Value</th></tr>
<tr><td>H2 vol%</td><td>99.99
% min.</td></tr>
<tr><td>CO+CO2</td><td>20 ppm vol max</td></tr>
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<tr><td>O2</td><td>1 ppm vol max</td></tr>
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<tr><td>H2O</td><td>5 ppm vol max</td></tr>
<tr><td>KOH/NaOH</td><td>Nil</td></tr>
<tr><td>Cl</td><td>Bidder to specify if any/Indicate NIL</td></tr>
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6.	Section-III	9 of 29	6.3.5	Notes for Technical Eligibility Criteria	Bidder shall have single point responsibility for project management and execution of complete scope covered in the tender including. Bidder's scope of work/ supply shall include but not limited to the following: - Design & Engg. - Fabrication at shop - Supply of Electrolyser stack/s as per technical specifications preferably as a complete skid/containerized unit - Supply of Balance of Plant Works - Fabrication & Installation including all Civil, Electrical, Inst. Mech. works at site. - Commissioning and Performance Guarantee Test Run (PGTR) - Warranty/Service Life Guarantee	**Revised clause shall be read as below:** Bidder shall have single point responsibility **(LSTK basis)** for project management and execution of complete scope covered in the tender including. Bidder's scope of work/ supply shall include but not limited to the following: - Design & Engg. - Fabrication at shop - Supply of Electrolyser stack/s as per technical specifications preferably as a complete skid/containerized unit - Supply of Balance of Plant Works - Fabrication & Installation including all Civil, Electrical, Inst. Mech. works at site. - Commissioning and Performance Guarantee Test Run (PGTR) - Warranty/Service Life Guarantee

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7.	Section-III	11 of 29	9.2	MRPL's Responsibility	To supply Renewable power (AC) on an open access solution basis blending solar and wind. The Power would be available at 6.6 KV/440V at battery limit of bidder.	**Revised clause shall be read as below:** To supply Renewable power (AC) on an open access solution basis blending solar and wind. Power is available in the Refinery at nameplate voltage of 6.6 KV+10% at HT level or 415V+10% at LT level. MRPL prefers to supply power at voltage level of 6.6KV+10%. Applicant shall step down the voltage to lower voltage level as required for operation of the Green Hydrogen plant. However, applicant to note that total available area is only 500m2 for the entire Green H2 plant including all required facilities/auxiliaries.

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8.	Annexure	20 of 29	Annexure-III	Applicant's General Information	New Point(s)	Annexure-III revised with additional inputs sought. Bidder to submit details as per the revised annexure.
9.	Annexure	21 of 29	Annexure-IV	Technical Credential of Applicant	New Point(s)	Annexure-IV revised with additional inputs sought. Bidder to submit details as per the revised annexure.
10.	Annexure	26 of 29	Annexure-VI	Deed of Joint Undertaking		Annexure on Deed of Joint Undertaking stands withdrawn for the purpose of EOI