

OIL INDIA LIMITED

(A Government of India Enterprise)

P.O. Duliajan, Pin – 786602

Dist.-Dibrugarh, Assam

CORRIGENDUM-7

Corrigendum No. 7 dated 29.01.2025 to GeM Bid No. GEM/2024/B/5548488 for 'Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.'

- (i) This Amendment to GeM Bid No. **GEM/2024/B/5548488** is issued to notify about the changes in the bid document as enclosed as **Annexure-A** (copy enclosed).
- (ii) The responses to the Pre-Bid queries have been enclosed as **Annexure-B** (copy enclosed).
- (iii) Extension of bid closing & opening dates & time:
 - (a) Extended Bid Closing Date & Time: **12.02.2025 [1400 Hrs (IST)]**
 - (b) Extended Bid Opening Date & Time: **12.02.2025 [1430 Hrs (IST)]**
- (iv) All other Terms and Conditions of the Tender/Bid Document, including previous amendment will remain unchanged.

.....
S d/-

(B. Borgohain)
Manager – C&P
For GM-C&P

ANNEXURE-A

Sl. No.	Clause No.	Existing Clause	Amendment Clause
1	BID EVALUATION CRITERIA (BEC)/ BID REJECTION CRITERIA (BRC) 2.1 EXPERIENCE	<p>The bidder, at individual capacity must have experience of successfully executing and completing the following noted services through 01 (One) single contract or separate contracts in the last 7 (Seven) years preceding the original bid closing date:</p> <p>i. The bidder must have completed at least one Project Management Consultancy (PMC) services for “Establishing an electrolysis-based Hydrogen plant of minimum 5MW capacity”.</p> <p style="text-align: center;">OR</p> <p>The bidder must have provided services as Lender’s engineer which includes review of project parameters, during execution of any electrolysis-based Hydrogen Plant and provided PMC services for minimum 5MW capacity alternate energy power projects.</p> <p style="text-align: center;">AND</p> <p>ii. The Bidder must have completed at least one Detailed Feasibility Study (DFR) and One Detailed Project Report (DPR) for “Establishing an Electrolysis based Green Hydrogen plant in the preceding 7 years reckoned from the bid closing date”.</p>	<p>The bidder, at individual capacity must have experience of successfully executing and completing the following noted services through 01 (One) single contract or separate contracts in the last 7 (Seven) years preceding the original bid closing date:</p> <p>i. The bidder must have completed at least one Project Management Consultancy (PMC) services for “Establishing an electrolysis-based Hydrogen plant of minimum 5MW capacity”.</p> <p style="text-align: center;">OR</p> <p>The bidder must have provided services as Lender’s engineer which includes review of project parameters, during execution of any electrolysis-based Hydrogen Plant and provided PMC services for minimum 5MW capacity alternate energy power projects.</p> <p style="text-align: center;">AND</p> <p>ii. The Bidder must have completed at least one Detailed Feasibility Study (DFR) and One Detailed Project Report (DPR) for “Establishing an Electrolysis based Green Hydrogen plant in the preceding 7 years reckoned from the bid closing date”.</p>
2	Scope Of Work (SOW) Part I: Section A: Pt. 2 & 3	<p>2.Preparation of detailed design and engineering of the plant.</p> <p>3.Preparation of Overall detailed flow diagram as well as detailed process diagram for all process units and Material Balance in details</p>	<p>2. Preliminary system design including material balance, plant configuration</p> <p>3. preliminary plant schematic showing major plant components and their interconnection, brief description about the process</p>

Sl. No.	Clause No.	Existing Clause	Amendment Clause
3	SOW Part I: Section A: Pt. 4	Description of ISBL (Inside Battery Limit) & OSBL (Outside Battery Limit) facilities with list of equipment & its detailed specifications	Description of ISBL (Inside Battery Limit) & OSBL (Outside Battery Limit) facilities with list of equipment & its detailed specifications
4	SOW Part -I: Section A: Pt. 13	Operations and Maintenance: • Description of the plant's operational procedures	Operations and Maintenance: • Description of the plant's operational procedures. The consultant to provide the same based on the recommended technology.
5	SOW Part – I, Section -A, point 5:	Preparation of Details of Raw materials, Utilities, Chemicals, Catalysts, auxiliary facilities, effluent data and other related materials and infrastructure for overall completion of the project.	Preparation of Details of Raw materials, Utilities, Chemicals, Catalysts, auxiliary facilities, effluent data and other related materials and infrastructure for overall completion of the project. Consultant must assess the utilities available at site.
6	SOW Part – I, Section-B, Point a, v	Inspection and approval of Materials/Spares supplied by contractor/vendor/sub vendor	1. Inspection of major equipment supplied by contractor / vendor / sub vendor. 2. Certifying conformity of Materials/Spares supplied by contractor / vendor /sub vendor to the technical specification(s).
7	SOW Part – I, Section-B, Point 1.1	The PMC shall prepare project plans and schedule in line with the overall project schedule of OIL. This will include the preparation and submission	The PMC shall prepare project plans and schedule in line with the overall project schedule of OIL. This will include the preparation and submission of following. The PMC shall review the project plans and schedule submitted by the contractor and ensure conformity to the overall project schedule specified in the tender document.
8	SOW Part – I, Section-B, Point 4.8	To provide technical support/supervision for trouble shooting and post- commissioning works up to performance guarantee period of works/ equipment	To provide technical support/supervision for trouble shooting and post- commissioning works such as verification of Performance Guarantee Test etc.
9	SOW Part – I, Section-B, Point 5.1 e	Ensuring the efficiency of water electrolysis modules to facilitate the smooth extraction of hydrogen from water sources.	Deleted

Sl. No.	Clause No.	Existing Clause	Amendment Clause
10	SOW (SOW) Part – I, Section-B, Point 5.1 h	Preparing/ reviewing operating / instruction manuals etc	Preparing /reviewing operating / instruction manuals etc
11	SOW Part – I, Section-B, Point 7 c	The Inspection and test plans for material and construction site activities shall be developed by the PMC and get approved from the Owner	EPC Contractor will submit MQAP and FQAP, the PMC will review the same and approve in consultation with Owner.
12	SOW Part II: Point 1: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system	Infrastructure Design & Engineering	<p>Assess optimal locations for installing the hydrogen dispenser system to facilitate efficient offtake by end-users in the following:</p> <ul style="list-style-type: none"> a. National Highway from Guwahati to Dibrugarh with provision for Dispensing station at Guwahati, Jorhat and Dibrugarh. b. National Waterways route of NW-2 Brahmaputra with provision for dispensing station at Jogighopa, Guwahati, Jorhat and Dibrugarh. c. Suggest at least four locations in the National Waterways route-1 (NW-1) starting from Varanasi to Hooghly. d. Each dispensing station should be capable of holding 100 Kg of Hydrogen at a pressure of 250 Bar. The storage shall be modular in nature which can be replicated as per requirement. e. Prepare basic design and technical specification of hydrogen dispensing system considering available technologies, safety, accessibility and operational efficiency. <p>Analyze transportation modes, including storage unit vehicles or other feasible methods, for transporting hydrogen fuel from the plant to the dispenser stations</p>

Sl. No.	Clause No.	Existing Clause			Amendment Clause		
13	Part-I: SOW, Section B, Clause No. 5e	Ensuring the efficiency of water electrolysis modules to facilitate the smooth extraction of hydrogen from water sources.			Deleted		
14	Clause No. 2.1 of SCC	Sl No.	Deliverables	Time period	Sl No.	Deliverables	Time period
		1	SOW Part -I (Section A)	Submission of Draft DPR for OIL's review within 4 weeks from issuance of NTP and Preparation and submission of Final DPR after incorporating comments from OIL within 2 weeks of receiving OIL's input on the draft DPR	1	SOW Part -I (Section A)	Submission of Draft DPR for OIL's review within 6 weeks from issuance of NTP and Preparation and submission of Final DPR after incorporating comments from OIL within 2 weeks of receiving OIL's input on the draft DPR
		3	SOW Part - II	Submission of Draft DFR for OIL's review within 4 weeks from issuance of NTP and Preparation and submission of Final DFR after incorporating comments from OIL within 2 weeks of receiving OIL's input on the draft DFR	3	SOW Part - II	Submission of Draft DFR for OIL's review within 6 weeks from issuance of NTP and Preparation and submission of Final DFR after incorporating comments from OIL within 2 weeks of receiving OIL's input on the draft DFR
15	Part II: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system 1.1	1.1 Expansion of Green Hydrogen Plant.			1.1 Expansion of Green Hydrogen Plant [Present capacity is 30 Kg in 24 Hrs operation. Target enhanced capacity will be suggested by the bidder. The expansion will be technology agnostic.]		

Sl. No.	Clause No.	Existing Clause	Amendment Clause
16	SCC Part-I: Performance Security	DPR and DFR are pure consultancy services containing only study, no Performance Security will be required. However, the Performance Security will be applicable for PMC and will be charged at 10% of the awarded PMC component only, and not the total contract value, after intimation by OIL before go-ahead on the PMC service	DPR and DFR are pure consultancy services containing only study, no Performance Security will be required. However, the Performance Security will be applicable for PMC and will be charged at 5% of the awarded PMC component only, and not the total contract value, after intimation by OIL before go-ahead on the PMC service

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

Queries from M/s. Fichtner India					
Sl. No.	Page	Clause Title	Existing Clause/Specification Requirement	Clarification Required	OIL's reply
1	Page 1 of 7	BID EVALUATION CRITERIA (BEC)/ BID REJECTION CRITERIA (BRC) 2.1 EXPERIENCE:	<p>The bidder, at individual capacity must have experience of successfully executing and completing the following noted services through 01 (One) single contract or separate contracts in the last 7 (Seven) years preceding the original bid closing date:</p> <p>i. The bidder must have completed at least one Project Management Consultancy (PMC) services for “Establishing an electrolysis-based Hydrogen plant of minimum 5MW capacity”.</p> <p align="center">OR</p> <p>The bidder must have provided services as Lender’s engineer which includes review of project parameters, during execution of any electrolysis-based Hydrogen Plant and provided PMC services for minimum 5MW capacity alternate energy power projects.</p> <p align="center">AND</p> <p>ii. The Bidder must have completed at least one Detailed Feasibility Study (DFR) and One Detailed Project Report (DPR) for “Establishing an Electrolysis based Green Hydrogen plant in the</p>	<p>The bidder, at individual capacity must have experience of successfully executing and completing the following noted services through 01 (One) single contract or separate contracts in the last 7 (Seven) years preceding the original bid closing date:</p> <p>i. The bidder must have completed at least one Project Management Consultancy (PMC) services for “Establishing a Renewable energy projects”.</p> <p align="center">OR</p> <p>The bidder must have provided services as Lender’s engineer which includes review of project parameters, during execution of any electrolysis-based Hydrogen Plant or Ammonia Plant and provided PMC services for minimum 5MW capacity alternate energy power projects.</p> <p align="center">AND</p> <p>ii. The Bidder must have completed at least one Detailed Feasibility Study (DFR) and One Detailed Project Report (DPR) for “Establishing an Electrolysis based Green Hydrogen plant in the</p>	<p>Refer to the Corrigendum No. 7 issued against the subject tender.</p>

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

			preceding 7 years reckoned from the bid closing date”.	preceding 7 years reckoned from the bid closing date”.	
2	Page 1 of 7	BID EVALUATION CRITERIA (BEC)/ BID REJECTION CRITERIA (BRC) 3.0 DOCUMENTARY EVIDENCE: B. In case work experience is not against OIL's Contract:	Bidder must submit the following: a) For Proof of Award, relevant pages of Contract document/Letter of Intent (LOI)/Letter of Award (LOA)/Work Order/Agreement copy <p align="center">AND</p> b) Successful completion certificate/ Certificate of Payment (COP) issued by the client/end user showing: (i) Nature of service/Job Description (ii) Work Order No./ Contract No. (iii) Period of service with contract start date and end date <p align="center">OR</p> c) Bank Statement for payment received against invoices raised for the work/TDS Certificate/Any other document(s) which can substantiate the completion of service, having information as per Para b above.	Bidder must submit the following: a) For Proof of Award, relevant pages of Contract document/ Letter of Intent (LOI)/Letter of Award (LOA)/Work Order/ Agreement copy	Tender conditions prevail

Queries from M/s. Power and Energy Consultants India Pvt. Ltd.

Sl No.	Page	Clause Title	Existing Clause/Specification Requirement	Clarification Requested	OIL's response
1	Page 1 of 7	BID EVALUATION CRITERIA (BEC)/BID REJECTION CRITERIA (BRC)	2.1 Technical Evaluation Criteria 2.2 Experience The bidder, at individual capacity must have experience of successfully	The bidder, at individual capacity must have experience of successfully executing and completing the following noted services through 01 (One) single contract or separate contracts in the	Refer to the Corrigendum No. 7 issued against the subject tender.

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

		<p>2.1 Technical Evaluation Criteria</p>	<p>executing and completing the following noted services through 01 (One) single contract or separate contracts in the last 7 (Seven) years preceding the original bid closing date</p> <p>i. The bidder must have completed at least one Project Management Consultancy (PMC) services for “Establishing an electrolysis-based Hydrogen plant of minimum 5MW capacity”.</p> <p align="center">OR</p> <p>The bidder must have provided services as Lender’s engineer which includes review of project parameters, during execution of any electrolysis-based Hydrogen Plant and provided PMC services for minimum 5MW capacity alternate energy power projects.</p> <p align="center">AND</p> <p>ii. The Bidder must have completed at least one Detailed Feasibility Study (DFR) and One Detailed Project Report (DPR) for “Establishing an Electrolysis based Green Hydrogen plant in the preceding 7 years reckoned from the bid closing date”.</p>	<p>last 7 (Seven) years preceding the original bid closing date:</p> <p>i. The bidder must have completed at least one Project Management Consultancy (PMC) services for “Establishing an electrolysis-based Hydrogen plant of minimum 5MW capacity”.</p> <p align="center">OR</p> <p>The bidder must have completed at least one Project Management Consultancy (PMC) services for “Establishing a Renewable energy project of 10 MW and above capacity”.</p> <p align="center">OR</p> <p>The bidder must be working as consultant for Project Management Consultancy as Green Hydrogen Project in India</p> <p align="center">OR</p> <p>The bidder must have provided services as Lender’s engineer which includes review of project parameters, during execution of any electrolysis-based Hydrogen Plant or Ammonia Plant and provided PMC services for minimum 5MW capacity alternate energy power projects.</p> <p align="center">AND</p>	
--	--	--	--	---	--

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

				ii. The Bidder must have completed at least one Detailed Feasibility Study (DFR) and One Detailed Project Report (DPR) for “Establishing an Electrolysis based Green Hydrogen plant of at least 2 MW in the preceding 7 years reckoned from the bid closing date”.	
2		Scope Of Work (SOW) Part I: Section A: Pt. 2 & 3	Preparation of detailed design and engineering of the plant. Preparation of Overall detailed flow diagram as well as detailed process diagram for all process units and Material Balance in details	Please revise the same as under: Preliminary system design including material balance, plant configuration, preliminary plant schematic showing major plant components and their interconnection, brief description about the process	Refer to the Corrigendum No. 7 issued against the subject tender.
3		SOW Part I: Section A: Pt. 4	Description of ISBL (Inside Battery Limit) & OSBL (Outside Battery Limit) facilities with list of equipment & its detailed specifications	Pleaser revise the same as under: “Description of ISBL (Inside Battery Limit) & OSBL (Outside Battery Limit) facilities with list of equipment & its detailed specifications”	Refer to the Corrigendum No. 7 issued against the subject tender.
4		SOW Part I: Section A: Pt. 8 (a) & (b)	Estimated cost of mode of transportation of Raw Material / products to / from the proposed Project and final product delivery location Details about License / know-how fees, project management consultancy fee etc	Not required please delete this clause	Tender conditions prevail
5		SOW Part -I: Section A: Pt. 9	Basis of cost estimates for each component and break-up for Indian &	Oil to specify the major components such as – electrolyzers, purification	Tender conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

			foreign exchange component. Accuracy of cost estimation should be ± 10%.	unit, compressors, storage, DM water plant etc	
6		SOW Part -I: Section A: Pt. 13	Operations and Maintenance: • Description of the plant's operational procedures	Please delete this bullet point	Refer to the Corrigendum No. 7 issued against the subject tender.
7		SOW Part – I, Section -A, point 5:	M/s OIL have not clarified the utilizes available at the site for the installation of the Green Hydrogen Plant	M/s OIL to please clarify the utilities available at the site identified for the installation of the Green Hydrogen Plant. M/s OIL to please clarify the utilities generation envisaged under project.	Consultants must assess the utilities available at site. Refer to the Corrigendum No. 7 issued against the subject tender.
8		SOW Part – I, Section-A, Point 1:	M/s OIL has not provided the topography, Soil test report and geo-coordinates of the project site	M/s OIL to provide the geo-coordinates or KMZ file, topography and Soil test reports of the project site.	Co-ordinates for Duliajan will be provided.
9		SOW Part – I, Section-B, Point a, v	Inspection and approval of Materials/Spares supplied by contractor/vendor/sub vendor	Inspection and approval of Materials/Spares —Major equipment supplied by contractor/ vendor/ sub vendor	Refer to the Corrigendum No. 7 issued against the subject tender.
10		SOW Part – I, Section-B, Point 1.1	The PMC shall prepare project plans and schedule in line with the overall project schedule of OIL. This will include the preparation and submission --- ----	The PMC shall review prepare project plans and schedule in line with the overall project schedule of OIL. This will include the preparation and submission -----	Refer to the Corrigendum No. 7 issued against the subject tender.
11		SOW Part – I, Section-B, Point 4.8	To provide technical support/supervision for trouble shooting and post- commissioning	This can't be kept open already given at point ix of section B as 3 months post commission	Refer to the Corrigendum No. 7 issued against the subject tender.

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

			works up to performance guarantee period of works/ equipment		
12		SOW Part – I, Section-B, Point 5.1 e	Ensuring the efficiency of water electrolysis modules to facilitate the smooth extraction of hydrogen from water sources.	PMC Can't ensure the same, however this will be part of EPC tender and selected bidder has to ensure the same.	Refer to the Corrigendum No. 7 issued against the subject tender.
13		SOW (SOW) Part – I, Section-B, Point 5.1 h	Preparing/ reviewing operating / instruction manuals etc	Preparing/ reviewing operating / instruction manuals etc.	Refer to the Corrigendum No. 7 issued against the subject tender.
14		SOW Part – I, Section-B, Point 7 c	The Inspection and test plans for material and construction site activities shall be developed by the PMC and get approved from the Owner	EPC Contractor will submit MQAP and FQAP , the PMC will review the same and approve in consultation with Owner	Refer to the Corrigendum No. 7 issued against the subject tender.
15		SOW Part II: Point 1: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system	1. Infrastructure Design & Engineering	The scope for Hydrogen dispenser system and bunker should either be deleted or separated as part III. Further this also need a complete revision. 1. M/s OIL to please specify the number of locations on National highway where the hydrogen dispenser systems is to be studied in DFR as well as locations be selected in consultation with stakeholders by OIL 2. M/s OIL to please specify the number of locations as well as place of installation on National waterways route of NW -1 & NW-2	Refer to the Corrigendum No. 7 issued against the subject tender.
16					

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

				Brahmaputra where the hydrogen dispenser systems is to be studied in DFR 3. Please specify the quantity required and pressure for dispensing unit as well as bunker	
17		SOW Part III Point 3	Market Analysis of Hydrogen	This requirement may please be deleted	Tender Conditions prevail.
18		SOW Part III Point 4.2 b	Financial Analysis Estimated cost of mode of transportation of products from the Plant to final delivery location	Please specify the delivery location	Delivery locations as per Sl. No. 15 above.
19		SOW Part III Point 8.	Conduct a sustainability assessment to evaluate the project's social, and economic impacts	Please elaborate what is required under sustainability assessment as in general study is conducted for the social impact.	Tender Conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

20	Special Terms and Conditions	SCC Page No. Page No. 41 of 48 Part -I	GCC	Performance Security	DPR and DFR are pure consultancy services containing only study, no Performance Security will be required. However, the Performance Security will be applicable for PMC and will be charged at 10% of the awarded PMC component only, and not the total contract value, after intimation by OIL before go-ahead on the PMC service	As per this conditions no Performance Security is required to be submitted for DPR and DFR. However as per our experience Oil India is unable to release any payment till the Performance Security is submitted. Please clarify	Tender Conditions prevail. Refer to the Corrigendum No. 7 issued against the subject tender.
21	Special Terms and Conditions	SCC Page No. Page No. 41 of 48	Sl No.	Deliverables	Time period	Sl No. Time period	Refer to the Corrigendum No. 7 issued against the subject tender.
			1	SOW Part -I (Section A)	Submission of Draft DPR for OIL's review within 4 weeks from issuance of NTP and Preparation and submission of Final DPR after incorporating comments from OIL within 2 weeks of receiving	1 SOW Part -I (Section A) Submission of Draft DPR for OIL's review within 6 weeks from issuance of NTP and Preparation and submission of Final DPR after incorporating comments from OIL within 2 weeks of receiving OIL's input on the draft DPR	
			2			2 SOW Part -II	

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

					OIL's input on the draft DPR				
			2	SOW Part -II	Submission of Draft DFR for OIL's review within 4 weeks from issuance of NTP and Preparation and submission of Final DFR after incorporating comments from OIL within 2 weeks of receiving OIL's input on the draft DFR			Submission of Draft DFR for OIL's review within 6 weeks from issuance of NTP and Preparation and submission of Final DFR after incorporating comments from OIL within 2 weeks of receiving OIL's input on the draft DFR	
								IT is not possible to arrange all details in 4 weeks. Further, for Dispenser the same should be named as part III and time period for the same as 6 weeks from issuance of NTP.	
22	Page 94-95	Payment Terms (Page 1 of 02 and 02 of 2)	Sl. No.	Milestone	Amount	Please amend as under			
			A	Submission and acceptance of Draft Detailed Project Report including financial model etc. as per SOW (PART-I, Section A)	50% of Item No. 1 of SOR	S. No.	Amount		
			B	Submission and acceptance of Final Detailed Project Report as per SOW including final financial model etc. and	Remaining amount of Item No. 1 of SOR	A	Payment should be on submission of Draft DPR and not on acceptance		
						B	Payment should be on submission of Final DPR and not on acceptance		
						D	Payment should be on submission of Draft Feasibility Project Report and not on acceptance		
						E	Payment should be on submission of Final Feasibility Report and not on acceptance		
									Tender Conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

				completion of all required presentation(s)		
			D	Submission and acceptance of Draft Feasibility Project Report including financial model etc. as per SOW (PART-II)	50% of Item No. 3 of SOR	
			E	Submission and acceptance of Final Feasibility Project Report as per SOW including final financial model etc. and completion of all required presentation(s). as per SOW (PART-II)	Remaining amount of Item No. 3 of SOR	
23	Page 96	SCHEDULE OF WORK, UNIT AND QUANTITY (SOQ) Note : Page 1 of 2	Note : Page 1 of 2 Sl No. (iii) - Professional Fee in respect of Item No.1 and 3 above shall be all-inclusive (including travelling, halting, boarding and lodging expenses etc.) consolidated fee for work completion, as per the SOW		This should be separate provision for travelling, halting, boarding and lodging expenses etc in case of Item No.1 and 3, as number of visits could not be anticipated as on date which may increase or decrease based on the requirements of the assignment after discussions with Oil India	Tender Conditions prevail
<u>Queries from M/s. Meinhardt EPCM</u>						

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

S/N	Reference	Description	Meinhardt Queries/ Suggestions	
1	Part-I: SOW, Section A, Clause No. 10	Financial analysis covering financial assumptions, profit and loss, balance sheet, cash flows, IRR computation, impact of taxation, payback period etc. for the project life.	We would like to highlight that, in financial analysis at the early stages, preparing a Profit and Loss (P&L) statement and a balance sheet may not be feasible. We kindly request M/s OIL to remove profit & loss statement and balance sheet from the clause 10, Part-I SOW.	Tender Conditions prevail
2	Part-I: SOW, Section A, Clause No. 10	Sensitivity analysis w.r.t. capital cost, product price, raw material price etc. Conduct sensitivity analysis and risk assessment to evaluate financial viability under various scenarios.	We kindly request M/s OIL to provide a detailed description of the sensitivity analysis and risk assessment as outlined in Clause 10, Part-I of the Scope of Work (SOW), to facilitate a clearer understanding of M/s OIL's expectations.	Tender Conditions prevail
3	Part-I: SOW, Section A, Clause No. 14	Explore debt and equity financing avenues.	We kindly request M/s OIL to provide a detailed SOW of the exploring debt and equity financing avenues as outlined in Clause 14, Part-I of the Scope of Work (SOW), to facilitate a clearer understanding of M/s OIL's expectations.	Tender Conditions prevail
4	Part-I: SOW, Section A, Clause No. 1 and 18 & Price bid format	Clause 1: Detailed due diligence..... Clause 18: Consultant needs to make presentations.....	Site visits for data collection and visits for presentations post draft submission and final submission is limited to 12 (Twelve) Mandays as per price bid format. Please confirm where our understanding is correct.	Understanding is correct
5	Part-I: SOW, Section B, Clause No. 5e	Ensuring the efficiency of water electrolysis modules to facilitate the smooth extraction of hydrogen from water sources.	Laboratory test reports of sources of water shall be provided to Consultant by M/s. OIL. Kindly confirm the same.	Refer to the Corrigendum No. 7 issued against the subject tender.

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

6	PART-II: SOW, Clause No. 1d	Prepare basis design and technical specification of suitable bunker type hydrogen dispenser system.....	Could you please clarify how many types of hydrogen dispenser systems M/s OIL are planning to install?	As per Sl. No. 15 above
7	PART-II: SOW, Clause No. 4.6	Explore debt and equity financing avenues.	We kindly request M/s OIL to provide a detailed SOW of the exploring debt and equity financing avenues as outlined in Clause 14, Part-I of the Scope of Work (SOW), to facilitate a clearer understanding of M/s OIL's expectations.	Tender Conditions prevail
1	BEC/BRC	The bidder must have completed at least one Project Management Consultancy (PMC) services for "Establishing an electrolysis-based Hydrogen plant of minimum 5MW capacity".	We would like to highlight that our consultant has substantial experience in providing PMC services within the Industrial and Oil & Gas sectors. With this expertise, we are keen to extend our services to the Energy sector. We kindly request M/s OIL to consider our demonstrated capabilities in the Oil & Gas sector for this purpose. Please be assured that the CVs of the engineers deputed for this project will be highly competitive and specifically aligned with the requirements of the Energy sector. Please confirm the same.	Refer to the Corrigendum No. 7 issued against the subject tender.
2	BEC/BRC	The bidder must have provided services as Lender's engineer which includes review of project parameters, during execution of any electrolysis-based Hydrogen Plant and provided PMC services for minimum 5MW capacity alternate energy power projects. The Bidder must have completed at least one Detailed Feasibility	Consultant is executing project with JSW Renewable Energy Limited for "Basic Engineering & Detailed Engineering of H2 Plant and BOP" which is going to be completed by Dec, 2024. We kindly request M/s OIL to consider "Basic Engineering and Detailed Engineering Services of H2 Plant" for this tender BEC. Please confirm the same.	Refer to the Corrigendum No. 7 issued against the subject tender.

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

		Study (DFR) and One Detailed Project Report (DPR) for “Establishing an Electrolysis based Green Hydrogen plant in the preceding 7 years reckoned from the bid closing date”.		
3	BEC/BRC	Land Border Agreement (DPIIT) for GeM Portal.	Consultant has executed "Pre-feasibility Studies with M/s AMNS" which consist of Floating Solar, Tidal Energy, Wave Energy and Hydrogen Energy. We kindly request M/s OIL to consider pre-feasibility study also in BEC. Please confirm the same.	Tender Conditions prevail
4	BEC/BRC	The bidder must have completed at least one Project Management Consultancy (PMC) services for “Establishing an electrolysis-based Hydrogen plant of minimum 5MW capacity”.	Consultant is Singapore based organization but have Indian Head Quarter in Bangalore with registration certificate, PAN, GST etc. Could it be suffice to give undertaking in company letter head to submit bid in GeM Portal. Kindly confirm the same.	The subject tender was floated in GeM portal. Therefore, indigenous bidder can participate against the same.

Queries from M/s. Engineers India Limited

SL NO.	Reference Document	Clause/Article No./Page No.	Bidder's Clarification	OIL's Response
1	PART- I: SOW FOR 10 MW CAPACITY GREEN HYDROGEN PLANT AT DULIAJAN, ASSAM	SECTION A: Preparation of Detailed Project report (DPR) for Green Hydrogen Plant at Duliajan, Assam Pg No 33 of 146: Pt No 9:	<i>Pg No 33 of 146: Pt No 9: Basis of cost estimates for each component and break-up for Indian & foreign exchange component. Accuracy of cost estimation should be ± 10%.</i> For Clarity required regarding requirement of Basis of Cost estimate for each component.	Tender Conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

2	PART- I: SOW FOR 10 MW CAPACITY GREEN HYDROGEN PLANT AT DULIAJAN, ASSAM	Pg No 33 of 146: Pt No: 10 10.	Pg No 33 of 146: Pt No: 10 10. Financial analysis covering financial assumptions, profit and loss, balance sheet, cash flows, IRR computation, impact of taxation, payback period etc. for the project life. Sensitivity analysis w.r.t capital cost, Products price, raw material price etc. in formula linked excel based model. Conduct sensitivity analysis and risk assessment to evaluate financial viability under various scenarios. Bidder shall be sharing the Web Based Financial Model for Financial Analysis with the OIL. OIL to confirm.	
3	SECTION B: Project Management Consultancy (PMC) services for Green Hydrogen production plant at Duliajan, Assam.	Mode of execution	Since the 10 MW GH2 In EPC mode. Bidder understand that services related to utilities and offsite facilities is excluded from the bidder scope . Also for costing purpose request to provide the clarity about mode of execution (EPC or EPCM) for utilities and offsite facilities .	Tender Conditions prevail
4	Scope of work (SOW) Part – I: SOW for 10 MW capacity Green Hydrogen plant at Duliajan, Assam	Section A. Bullet 5.	M/s OIL to please clarify the utilities available at the site identified for the installation of the Green Hydrogen Plant. M/s OIL to please clarify the utilities generation envisaged under project.	Refer to the Corrigendum No. 7 issued against the subject tender
5	Scope of work (SOW)	Section A. Bullet 3.	M/s OIL to please clarify the electrolyser technology for which the DPR is to be prepared.	Bidder's Scope

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

	Part – I: SOW for 10 MW capacity Green Hydrogen plant at Duliajan, Assam			
6	Scope of work (SOW) Part – I: SOW for 10 MW capacity Green Hydrogen plant at Duliajan, Assam	Section A. Bullet 9.	<p>In green hydrogen plant electrolyser stack (anode cathode separator), few exchangers, pumps etc, rectifier, are normally supplied by the electrolyser OEM. In order to meet the performance guarantee of electrolyser stack. Electrolyser is a proprietary item. In Green Hydrogen plant the cost of these items are significant and hence in order to arrive a project cost estimate of +/- 10% accuracy, it is necessary that firm techno commercial details are made available and accordingly balance system should be finalized. Further, balance facility design is also dependent on electrolyser design and hence this also calls firm technical details on electrolyser system. In view of above, it is understood that M/s OIL will provide firm details (technical and commercial) for electrolyser stack and rectifier or any other proprietary item to the bidder after award of job and bidder is expected to prepare feasibility study considering the same.</p> <p>M/s OIL to confirm our understanding mentioned above.</p> <p>Inview of above, above listed items shall be free issue to EPC contractor during execution.</p>	Tender Conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

			If above understanding is not correct, M/s OIL to please elaborate.	
7	Scope of work (SOW) Part – I: SOW for 10 MW capacity Green Hydrogen plant at Duliajan, Assam	Section A. Bullet 9.	M/s EIL understand that all inputs like Green Hydrogen prices, power and utilities cost, target IRR etc shall be provided by M/s OIL in order to perform the financial analysis. M/s OIL to please confirm.	Bidder's Scope
8	Scope of work (SOW) Part – I: SOW for 10 MW capacity Green Hydrogen plant at Duliajan, Assam	Section A. Bullet 15	Inputs for VGF and CFA from MNRE or relevant state government bodies to be considered for costing and financial analysis shall be made available to EIL by M/s OIL.	Bidder's Scope
9	Scope of work (SOW) Part – I: SOW for 10 MW capacity Green Hydrogen plant at Duliajan, Assam	Section A. Bullet 13.	M/s OIL to please confirm that the minimum O&M cost along with yearly escalation shall to be considered in the DPR shall be provided to EIL.	Bidder's Scope
10	Scope of work (SOW) Part – I: SOW for 10 MW capacity	Section B. Bullet ii.	We understand the RFQ is to be floated for the technology selection already done by M/s OIL. M/s OIL to confirm our understanding.	No. It is Bidder's Scope

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

	Green Hydrogen plant at Duliajan, Assam			
11	Part II: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system.	Bullet 1.1: Expansion of Green Hydrogen Plant. Bullet a.	<p>M/s OIL to please clarify the existing capacity of GH2 Plant at Jorhat, Assam.</p> <p>M/s OIL to please clarify the target enhanced capacity of the existing Green Hydrogen Plant.</p> <p>M/s OIL to please clarify the electrolyser technology for which the capacity enhancement is to be studied.</p>	Refer to the Corrigendum No. 7 issued against the subject tender
12	Part II: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system.	Bullet 1.1: Expansion of Green Hydrogen Plant. Bullet b.	M/s OIL to please elaborate or list the technologies options for which the comparison and evaluation is to be done in DFR.	Bidder's Scope
13	Part II: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system.	Bullet 1.2: Hydrogen dispenser system. Bullet a, b. c	<ol style="list-style-type: none"> 1. M/s OIL to please clarify the number of locations on National highway where the hydrogen dispenser systems is to be studied in DFR. 2. M/s OIL to please clarify the number of locations on National waterways route of NW-2 Brahmaputra where the hydrogen dispenser systems is to be studied in DFR. 3. M/s OIL to please clarify the number of locations on National waterways route of NW-1 Ganga – Bhagirathi – Hooghly, where the hydrogen dispenser systems is to be studied in DFR. 	Refer to the Corrigendum No. 7 issued against the subject tender

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

			4. M/s OIL to clarify the GH2 market demand in the mobility sector which needs to be studied for installation of hydrogen dispenser on national highways and national waterways.	
14	Part II: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system.	Bullet 4: Financial analysis	M/s OIL to confirm all inputs from original equipment manufacturers required for cost estimate and financial analysis shall be provided to EIL. Any payment / fees sought by OEM in order to provide cost estimate inputs shall be paid by M/s OIL directly.	Bidder's Scope
15	Part II: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system.	Bullet 4: Financial analysis	Inputs for VGF and CFA from MNRE or relevant state government bodies to be considered for costing and financial analysis shall be made available to EIL by M/s OIL.	Tender Conditions prevail
1	STC	Clause 16.0 Page 18 of 48	Contractor shall be only provide services under this contract, however, the clause 16.0 b) mentions hardware liabilities on Contractor. Hence, w.r.t the Limitation of Liability Clause and the scope of services under this tender, Bidder understands that there is no hardware related liability on CONTRACTOR. Further, bidder requests client to modify clause 16.0 b) to following: "Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the CONTRACTOR in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 100% of the Contract Price (if not	No Change, Standard GCC

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

			specified otherwise in SCC), provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the CONTRACTOR, or to any obligation of the CONTRACTOR to indemnify the COMPANY with respect to Intellectual Property Rights.”	
2	Section II SCC	Liquidated Damage Clause specific to Tender Page 41 of 48	Bidder requests client to modify the LD clause ceiling to 5% of Total Contract value before GST.	No change
3	Section II SCC	Performance Security Page 41 of 48	Performance security @ 5 % of PMC Fees is applicable. Bidder understands that Performance Security @ 5% is with respect to basic value of PMC Fees, i.e., PMC Fees value excluding GST. Please confirm.	Exclusive of GST
4	New Clause		Bidder requests inclusion of following Indemnification clause considering the nature of services being performed under the subject assignment: “OIL undertakes to hold the CONTRACTOR harmless and indemnified from any claim, action, demand, or any proceeding whatsoever invoked by vendor(s), contractor(s), bidder(s), third party(ies) or prospective bidder(s) of the OIL against CONTRACTOR arising out of or in relation to or consequent upon this Contract or engagement of such vendor(s) or contractor(s), bidder(s), or prospective bidder(s) and OIL shall bear all costs (including legal and incidental costs such as travel as well as man-hour costs), charges and expenses incurred by CONTRACTOR in respect of any suit, writ or other action or proceedings by any such third party [including	Tender Conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

			vendor(s), contractor(s), bidder(s), or prospective bidder(s)] in which CONTRACTOR has been made or impleaded as a party/ Defendant/ or Respondent and/or for prosecuting any appeal, revision, or review in respect thereof, whether the claim, suit, writ or other action or proceedings is based on contract, quasi contract, tort of any other basis or breach of law.	
5	SCC	-	Bidder understands that in case of any changes in the scope of services and / or any extension / delay in PMC's services beyond the scheduled date of completion & for reasons not solely attributable to PMC, PMC shall be entitled to additional compensation which shall be mutually agreed. Client is requested to kindly confirm.	Tender Conditions prevail
SL NO.	Pg. No. of Tender Document/Cl. No.		EIL's Clarification	OIL's Response
1	<p>Tender SOW:</p> <p>a. Sheet 84 of 146: Section-I: Special Conditions of Contract (SCC) Clause no. 2.1, completion period.</p> <p>b. Sheet 33 of 146: PART- I: SOW For 10 MW Capacity Green Hydrogen Plant at Duliajan, Assam</p> <p>Sheet 40 of 146: Part II-SOW: DFR OF Expansion of Green Hydrogen Plant, Hydrogen Dispenser system</p>		<p>a. SOW-Part-I – Section A: Draft DPR for OIL's review within 4 weeks from issuance of NTP. SOW-Part-II: Draft DFR for OIL's review within 4 weeks from issuance of NTP.</p> <p>b. As per Part-I, SOW, Section-A, DPR scope not limited to study but it also indicates “preparation of detail design and engineering of the plant.....” And many more detail engineering activities, environmental studies, risk assessment, financial study, Civil / Piping / Structural works details, VGF / CFA / MNRE incentive study etc.</p> <p>c. As per Part-II, SOW: Apart from study regarding the Expansion of Green Hydrogen Plant and hydrogen</p>	Tender Conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

		<p>dispensing facilities many other activities like “ Prepare Basic design and engineering for expanding the green hydrogen production plant / Prepare basic design and technical specification of suitable bunker-type hydrogen dispenser system etc.” are indicated in the bidder scope of work.</p> <p>Client to note that as per subject of the Tender, bidder understands that only DPR study and feasibility study is to be done, no basic engineering / detail engineering is envisaged.</p> <p>Client is requested to review the schedule of 4 weeks + 2 weeks for the DPR study and DFR study. Client to note that indicated time schedule is not schedule for execution and preparation of the DPR / DFR Study report with cost estimate along with too many environments study, risk study etc.</p> <p>Client to review and provide practically executable time schedule for such project.</p> <p>Client to also review and prepare the deliverable list to be provided with the study report for better estimation of the technical proposal.</p>	
2	General	<p>1. Client is requested to provide conceptual plot plan along with list of buildings that are envisaged for 10 MW Green Hydrogen Plant in Duliajan</p> <p>Client is requested to provide Plot plan and buildings to be expanded as a part of expansion of Jorhat Green Hydrogen Plant</p>	Bidder's Scope

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

3	Scope of Work	Bidder understands that preliminary Geotechnical investigation works for Part-I and Part-II of the project is in Bidder's Scope. However, the payment of the said activity will be done by Client. Kindly confirm Bidder's understanding.	Bidder's Scope
4	General	Bidder request Client to provide the following a) Tentative layout of the Part-I and Part-II (if available with Client) b) Topography report of Part-II (if available with Client)	Bidder's Scope
5	General	Client to provide complete equipment list of Heat Transfer Equipment (such as Fired Heater, Heat Exchangers, Air Coolers, etc.) along with type/number of equipment for better estimation for the proposal.	Bidder's Scope
6	Scope of Work/Part-1/ Page 33 of 146	Please clarify whether the Green Hydrogen Plant is located in existing complex of OIL or whether the plant is coming at a new location.	Within OIL Township
7	Scope of Work/Part-1/Page 33 of 146	We understand only carrying out Environmental Impact assessment is in bidder's scope and obtaining Environmental clearance is not included in the scope of the bidder	Bidder to facilitate by verifying the forms and formats to submitted
8	Part II: SoW for DFR for expansion of Green Hydrogen Plant, Hydrogen dispenser system. 3. Market Analysis of hydrogen:	For timely execution of the subject assignment, we understand the following philosophy shall be adopted for market analysis: 1. Market analysis of hydrogen report shall be made available to the bidder by M/s OIL OR 2. Bidder shall provide all the necessary technical support to M/s OIL for selecting agency for the hydrogen market analysis for particular target	Tender Conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

		<p>regions identified by client. Award of market study to eligible agency and fees / payment shall be made directly by M/s OIL. Bidder shall make the part II DPR based on the report provided by M/s OIL.</p> <p>M/s OIL is requested to clarify the above.</p>	
9	<p><u>PART- I: Scope of Work</u> SECTION A: Preparation of Detailed Project Report (DPR) . Pg No 33 of 146: Pt No 9:</p>	<p>As per Tender “Basis of cost estimates for each component and break-up for Indian & foreign exchange component with Accuracy of cost estimation should be $\pm 10\%$.”</p> <ol style="list-style-type: none"> a. Client to note that for cost estimate with $\pm 10\%$ accuracy, detail equipment list, equipment layout, building details, control system philosophy, special instruments details, Power System philosophy etc. required for proper MTO calculation for better cost estimation. b. In absence of such details cost estimate with $\pm 30\%$ accuracy will be provided. Client to confirm bidder understanding that cost estimate with $\pm 30\%$ accuracy will be provided is correct. c. Need based Budgetary quotation will be required for OEM Items, Specialized Items, Items for which Inhouse Cost Data is not available. <p>Client to review above points and confirm for better estimation during bidding process.</p>	Tender Conditions prevail
10	<p><u>PART- I: Scope of Work</u> SECTION A: Preparation of Detailed Project Report (DPR) . Pg No 33 of 146: Pt No: 10 10</p>	<p>Financial analysis covering financial assumptions, profit and loss, balance sheet, cash flows, IRR computation, impact of taxation, payback period etc. for the project life. Sensitivity analysis w.r.t capital cost, Products</p>	Tender Conditions prevail

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

		price, raw material price etc. in formula linked excel based model. Conduct sensitivity analysis and risk assessment to evaluate financial viability under various scenarios. Only Web Based Financial Model for Financial Analysis shall be shared with the Client. Client to confirm.	
11	Scope of Work	Owner may please clarify whether the following packages are envisaged for the project (Duliajan): a) Machine Condition Monitoring System b) CCTV System c) Telephone d) Access Control System In case any other system in envisaged, kindly also indicate the same.	Tender Conditions prevail
12	Scope of Work	Owner may please clarify whether the following activities are envisaged for the project (Duliajan): a) 3D modelling b) SIL Verification	Required
13	General	Owner may please clarify for the project (Duliajan): We understand that, new Control Room to be considered as a part of this project and no existing control room is available.	This is for PMC works only.
14	Scope of Work	Owner may please clarify for the project (Duliajan): Scope clarity required whether this is EPCM or PMC job for	PMC
15	Scope of Work	Owner may please clarify for the project (Jorhat-GH expansion project):	Bidder's Scope

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

		<p>1. We understand that, for expansion, the existing control system philosophy /design basis will be considered.</p> <p>2. Existing control system would be revamped</p> <p>We understand that for the revamp/expansion case, the existing control room and system would be adequate and consultant does not have to carry out further adequacy study</p>	
1	General	<p>M/S Oil India Limited is requested to provide the following Drawings/documents for further review / estimation by Engineering Consultant (EC) of the existing Green Hydrogen Plant:</p> <ol style="list-style-type: none"> 1) Existing equipment layout Drawings with all Details 2) Existing Overall plot plan 3) Existing Offsite area piping GADs 4) Existing 3D model (if available). 5) Existing PMS(Piping Material Specifications) / VMS (Valve Material Specifications). 6) Existing P&IDs. 7) Existing line list. 	Will be provided after award of contract
2	General	<p>M/s Oil India Limited to confirm whether 3D modelling is required for the upgradation of facilities. If 3D modelling is required, M/s Oil India Limited to confirm the modelling software requirements with versions.</p>	required
3	General	<p>M/s Oil India Limited is requested to confirm whether dismantling of any equipment/packages along with associated piping & their detail study is in the scope of Engineering Consultant (EC) for the expansion part.</p>	Bidder's Scope

ANNEXURE-B

QUERIES for GEM Tender No: GEM/2024/B/5548488 for Hiring of services for Detailed Project report (DPR) and Project Management Consultancy (PMC) for establishment of 10 MW capacity Green Hydrogen Plant in Duliajan and Detailed Feasibility Report (DFR) for expansion of Jorhat Green Hydrogen Plant and Establishment of Hydrogen dispensing facilities in the state of Assam.

4	PART-II: SoW for DFR of Expansion of Green Hydrogen Plant, Hydrogen Dispenser system, Sr. No 2-Green Renewable Power Requirement:	i) Client to confirm Renewable Power generation to be designed for Round The clock availability? ii) Client to also confirm what combination of renewable power sources to be considered, only Solar? iii) Client to also confirm the Land availability for installation of Renewable Power Plant	Bidder's Scope considering RTC power supply
5	PART-II: SoW for DFR of Expansion of Green Hydrogen Plant, Hydrogen Dispenser system, Sr. No 2-Green Renewable Power Requirement: Sr. No. iv)	As per tender Clause: "Explore alternative options for enhancing renewable energy capacity, such as entering into Power Purchase Agreements (PPAs) with power distribution companies and integrating with the existing infrastructure". Bidder understands that bidder will only propose alternative options, however required support from the nearby Power Distribution companies regarding this study will be provided by Client." Client to confirm.	Tender Conditions prevail