REPLY TO PRE-BID QUERIES

TENDER DOCUMENT FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND MAINTENANCE OF 03 (THREE) NOS. LNG STORAGE &

TENDER NO: IGL/ET2/CP/CC18008

REPLIES TO PREBID QUERIES FOR TENDER NO. IGL/ET2/CP/CC18008

Sl. No.	Volume/ Section/ Clause No.	Page No.	CLAUSE NO.	Clause	Bidder's Query	IGL Reply
1	**10.0** of SCC	59 & 60 of 90		**TERMS OF PAYMENTS:**	Bidder requests Owner to consider the payment terms as below:	Tender Condition Prevails
				10.1 For Supply of Equipment		
				i.80% (Eighty Percent) Payment shall be released against receipt of materials at site on submission of dispatch documents, manufacturer's certificates, invoices, packing lists, insurance policy, guarantee/warranty certificates, inspection release note, Goods Receipt Voucher (GRV) & dispatch clearance issued by the Owner.	A. For supply of equipment/material:-	
				ii.10% (Ten Percent) Payment shall be released after successful completion of erection & commissioning works.	i) 20% payment against the acceptance of order and ABG of equivalent amount.	
				iii.10% (Ten Percent) Payment shall be released on submission of final/as built documents and acceptance of complete system.	ii) 60% payment against the readiness of equipment at supplier's works.	
				10.2 Payment towards Installation, Testing & Commissioning of equipment covered in SOR	In case if dispatch clearance is not provided within 3 weeks from date of intimation of reediness of equipment, then milestone payment shall be release immediately.	
				i.90% (Ninety Percent) Payment shall be released on installation, Testing & Commissioning of equipment.	iii) 10% payment on completion of erection works.	
				ii.10% (Ten Percent) Payment shall be released on acceptance of the complete system.	iv) 10% on commissioning, submission of final / as built documents and acceptance of complete system.	
				10.3 Payment against Operation & Comprehensive Maintenance:		
				i. On pro-rata monthly basis, against monthly invoices duly certified by Engineer-in Charge within 45 (Forty-Five) working days from the date of submission of bills to the owner.	B. For Installation, Testing & Commissioning of equipment:-	
					i) 90% on installation, Testing & Commissioning of equipment	

					ii) 10% on commissioning and acceptance of complete system	
					In case if site is not ready for installation and commissioning of equipment for reason not attributable to Bidder then milestone payment A-ii ,iii & iv and B-i & ii shall be release within 60 days from date of intimation of readiness of equipment.	
					C) Operation & Comprehensive Maintenance:- i) 100% On monthly basis,	
					Invoices will be raised on monthly basis for work carried out in previous month. Payable amount along with Goods & Service Tax will be released within 10 days of receipt of Invoice.	
					In case the work is delayed beyond the scheduled completion date, due to any reason not attributable to Bidder, Bidder can extend the bank guarantee and the cost towards extending the bank guarantee shall be paid extra by Owner/PMC.	
2	--------	--------		**Releasing the Payment:**	Bidder requests Owner to consider following:	Tender Condition Prevails
					In case if Bidder can't dispatch equipment within 30 days from the date of intimation of readiness of equipment for the reasons not attributable to Bidder / dispatch clearance not provided / Non-readiness of site etc. then milestone payment (e.g. against receipt of material at site, equipment installation, pre-commissioning) shall be released within 15 days of submitting proforma invoice & proof of readiness of equipment (Inspection certificate by TPI / Bidder QC Department).	
					Similarly, if equipment can't be installed & commissioning within 3 months from the date of intimation of readiness of equipment for the reasons not attributable to Bidder and / or delay due to Owner / PMC then milestone payment against commissioning work shall be released within 15 days of submitting proforma invoice & Proof of readiness of equipment (Inspection certificate by TPI / Bidder QC Department).	
					Considering the long lead time of 6-7 months minimum for critical components / bought out items (i.e., Cryogenic pumps, cryogenic valves, transmitters, instruments, PLC etc.) and global supply chain issues, Bidder requests Owner to consider the delivery schedule as below:	

3	3.1 of IFB	8 of 90		**Delivery Schedule:** For supply, erection and commissioning of Mechanical, Electrical and Fire System for LNG/LCNG Satellite Station & LNG Fuelling Station are to be completed at various locations within 6 (six) months for each station from the date of issuance of Release/Purchase Order.	Supply of equipment: 8 months from the date of PO/LOA. Transit time, erection and installation of equipment is minimum 3 moths from the site readiness. Considering the above, Job completion period shall be 11 months from PO/LOA instead of 6 months. Commissioning shall be within 30 days after approval from the PESO and other statutory authorities. Remarks: We have considered that submitted documents shall be reviewed and approved within 7 days by Owner.	Tender Condition Prevails
4	**K** of scope of service	10 of 174		Arranging power & water at site required for commissioning & testing.	Bidder understands that construction power and water will be provided by Owner free of cost during the time of erection and commissioning of LNG station.	Electrical Power & Water required for testing & commissioning of equipment shall be in the scope of the bidder. During AMC it will be in the scope of IGL. Tender Condition Prevails
5	2.1 of brief scope	7 of 90		Above locations are tentative and subject to change as per requirement and site readiness.	Bidder understands that site works, Transportation up to Project site, O&M, and other major activities are in the scope of Bidder. If Owner want to change the site locations then the time and cost implications must be discussed and agreed upon mutually.	Please refer to clause no. 2.1/ 2.6/ 3.2 of IFB for delivery locations. Tender Condition Prevails
6	----------	---------		Owner/PMC Obligations	Bidder has assumed that Technical documents as well as Invoices along with necessary documents submitted by bidder to Owner/PMC will be reviewed / certify within 15 days from its submission to Owner/PMC. In case if Owner/PMC does not provide any comment it will be treated as deemed accepted by the Owner/PMC and any Statutory / Compliance requirement arises later date, shall be to Owner/PMC account. In any case, Owner shall release claimed payment within 30 days from date of submission of documents for Supplies as well as Services portion.	Tender Condition Prevails

7	----------	---------		Delay in commissioning due to reasons not attributable to bidder	In case of delay in commissioning due to reasons not attributed to Bidder, Bidder can accept the Defect Liability Period as per the tender condition subject to mutually agreed cost implication.	Tender Condition Prevails
					Bidder requests Owner to confirm the same.	
8	28,38 & 19 of Detailed scope of Work of the LNG/LCNG and LNG Dispensing Station	31, 32 & 34 of 174		· Obtaining all statutory approvals including PESO approval for the site and equipment's.	Bidder would like to draw attention of Owner that local approvals like DM NOC as well as other statutory approvals like PESO are not the core competence of Cryogenic Equipment manufacturers and system providers. Further, such authorities do not entertain Bidders or system providers due to non-ownership of station as well as land etc. and for all such kind of statutory approvals, authorities are insisting Owner's involvement.	Obtaining PESO approval including necessary technical documentation will be in the scope of the bidder. However, bidder to provide technical assistance in obtaining all other statutory approvals including DM NOC etc. whenever required.
				· All Local approvals/ NOC for LNG facility		
					Considering the same, Bidder hereby requests Owner to exclude all statutory approvals including local approval from Bidder's scope.	
					Bidder will only coordinate for the document submission and will provide support for the documents required for PESO approval, However prime responsibility will be with Owner/PMC. Any delay for plot plan approval as well as licensing from PESO, Bidder shall not be responsible.	
					Bidder will consider technical assistance in design approvals/taking permissions from statutory authorities (PESO approvals & local DM approval etc.) in Bidder scope.	
9	---------	-------		Verifications of bills and documents submitted by the Contractor to EIC (Engineer-in-charge)	Bidder requests Owner to clarify who is the EIC (Engineer-in-charge) and the name of the EIC (Engineer-in-charge) for the subject project so that we may submit the necessary documents directly to EIC.	Necessary details shall be provided at the time of detailed engineering
10	---------	------		Documents required for	Bidder requests Owner to provide list of documents to be submitted along with Invoices / bills for processing payment.	Refer payment terms 10.1 of SCC. Tender Condition Prevails
				Processing Invoices / Bills		
					Bidder also requests Owner to provide list of documents for O&M billing as well as compliance to be followed for O&M activities.	
11	---------	------		General: LNG Dispenser data sheet	Bidder understands that LNG dispenser data sheet is not provided in the tender documents. Bidder requests Owner to kindly provide LNG dispenser data sheet for our review and bidding purposes.	Bidder to supply LNG Dispenser as per Annexure - XIV Scope of LNG Dispenser.

12	29.0 of GCC	44 of 90		**Price reduction:**	Statutory approvals are beyond Bidder / Owner's control and any delay due to delay in statutory approvals can't be attributable to Bidder and accordingly, Bidder proposes to waive off LD for Delay clause in case, if delay of project is due to any statutory approval.	Tender Condition Prevails
				½% (half per cent) per complete week of delay of the value of the "supply portion for the quantity" that is delayed per complete week subject to maximum of 5% (Five Per Cent) of the total contract value.	Also, LD charges shall be applicable to the non – delivered portion only and not on the complete contract value.	Refer PRS Clause 7.4 of SCC. Tender Condition Prevails
13	-------	------		General: LNG Dispenser	LNG Dispenser has type approved with PESO and Weights & Measuring body. Hence, modification on the same may not be allowed. This is for the information to the Owner.	Please refer Annexure - XIV Scope of LNG Dispenser Technical Volume II.
14	List of Suppliers of Major Bought-Out Items	59 of 174		MASS FLOW METER: EMERSON/E&H/SICK	Bidder understands that mass flow meter make are specified in the tender. Bidder understands that only the specified makes of mass flow meter mentioned in the tender are acceptable for use in the LNG dispenser. Additionally, Bidder understands that any other equivalent mass flow meters of Chinese make are not acceptable for this package. Bidder requests Owner to confirm Bidder understanding.	Please refer Annexure - III List of Suppliers of Major Bought Items Tender Condition Prevails
15	5.4 of technical Specification	12 of 174		**Civil:**	Bidder understands that only supplied equipment's Civil foundation drawings is in the scope of Bidder. Remaining all other civil works and civil related documents shall be done by Owner or other civil contractors.	Civil work is excluded from the scope of the bidder. However bidder shall provide civil foundation drawings along with other related documents for LNG equipments. Tender Condition Prevails
				At the top of concrete (TOC) of equipment foundation. However, grouting with GP2 cement during erection of all equipment shall be in Contractor's scope.		
					Bidder requests Owner to confirm Bidder understanding.	
16	---------	----------		Manpower required for O&M works and its experience / qualification	Bidder requests Owner / PMC to clarify requirement of Technicians per shift as well as the reliever philosophy for technicians, requirement of site in-charge / any other additional manpower requirement for operation of LNG	Please refer SOR line item 1.3 for requirement of manpower at LNG-LCNG and LNG stations.
17	3.1 of IFB	8 of 90		The work shall be carried out on Annual Rate Contract (ARC) basis. The validity of ARC shall be for a period of 1 year (12 months) from the date of issuance of LOA.	Bidder requests Owner to consider Annual Rate Contract (ARC) Validity is 60 days instead of 365 days from the date of issuance of LOA due to current volatility in the metal prices.	Tender Condition Prevails

18	7.1 (a), Group-A	10 of 90		(a) Group-A	Considering the configuration of the LNG-LCNG Satellite Station required for this tender, Bidder request Owner to consider Qualification Criteria as below:	Tender Condition Prevails
				The bidder shall have designed, manufactured, supplied, installed & commissioned Cryogenic LNG storage tanks (at least one number of minimum capacity 56 KL) with regasification unit in last 7 years reckoned from bid due date.		
				The bidder should be a manufacturer of cryogenic storage tank with valid PESO certificate of the same (56 KL Tank). If bidder is not a cryogenic storage tank manufacturer, then the bidder must furnish along with the bid valid PESO certificate of cryogenic storage tank along with firm supply agreement against the tender from the manufacturer of cryogenic storage tank. The bidder to submit undertaking along with the bid from the cryogenic storage tank manufacturer to own complete responsibility of design, QA/QC, after sales technical support, unconditional guarantee/warrantee, post warrantee service and after sales support to the purchaser till the lifecycle of storage tank.	Bidder should have designed, supplied, installed and commissioned at least one LCNG station having LNG storage tank (minimum 56 KL) and Regasification unit in previous 7 years reckoned from the bid due date and facility shall be operational at least for 1 year from the date of commissioning.	
19	7.1 (b), Group-B	10 of 90		(b) Group-B	Considering the configuration of the LNG-LCNG Satellite Station required for this tender, Bidder request Owner/PMC to consider Qualification Criteria as below:	Tender Condition Prevails
				The bidder shall have designed, manufactured, supplied, installed & commissioned Cryogenic LNG storage tanks (at least one number of minimum capacity 56 KL) with regasification unit in last 7 years reckoned from bid due date.		
				The bidder should be a manufacturer of cryogenic storage tank with valid PESO certificate of the same (56 KL Tank). If bidder is not a cryogenic storage tank manufacturer, then the bidder must furnish along with the bid valid PESO certificate of cryogenic storage tank along with firm supply agreement against the tender from the manufacturer of cryogenic storage tank. The bidder to submit undertaking along with the bid from the cryogenic storage tank manufacturer to own complete responsibility of design, QA/QC, after sales technical support, unconditional guarantee/warrantee, post warrantee service and after sales support to the purchaser till the lifecycle of storage tank.	Bidder should have designed, supplied, installed and commissioned at least one LCNG station having LNG storage tank (minimum 56 KL) and Regasification unit in previous 7 years reckoned from the bid due date and facility shall be operational at least for 1 year from the date of commissioning.	

20	7.1 (b), Group-B	10 of 90		(c) Group-C	Considering the configuration of the LNG dispensing station required for this tender, Bidder request Owner to consider Qualification Criteria as below:	Tender Condition Prevails
				The bidder shall have designed, manufactured, supplied, installed & commissioned Cryogenic LNG storage tanks (at least one number of minimum capacity 56 KL) with regasification unit in last 7 years reckoned from bid due date.		
				The bidder should be a manufacturer of cryogenic storage tank with valid PESO certificate of the same (56 KL Tank). If bidder is not a cryogenic storage tank manufacturer, then the bidder must furnish along with the bid valid PESO certificate of cryogenic storage tank along with firm supply agreement against the tender from the manufacturer of cryogenic storage tank. The bidder to submit undertaking along with the bid from the cryogenic storage tank manufacturer to own complete responsibility of design, QA/QC, after sales technical support, unconditional guarantee/warrantee, post warrantee service and after sales support to the purchaser till the lifecycle of storage tank.	Bidder should have designed, supplied, installed and commissioned at least one LNG Storage and Regasification Facility / LNG dispensing / Fueling Facility having LNG storage tank (minimum 56 KL) in previous 7 years reckoned from the bid due date and facility shall be operational at least for 1 year from the date of commissioning.	
					Bidder requests Owner to remove the clause regarding the Participation of Authorized Indian Suppliers/Indian Subsidiary or Associate on behalf of Foreign Manufacturer(s) from the tender because this tender's focus on domestic competitive bidding and the applicability of a local content clause. Such clauses typically require a specific percentage of goods, materials, or services used in the project to originate from domestic suppliers or be manufactured within the country's boundaries.	
					Such local content requirements serve multiple purposes:	
					· Supporting Domestic Industries: By stipulating that a portion of the project's components must come from local sources, the government or contracting entity can help bolster domestic industries. This support can lead to increased production, investment, and job creation within the country.	

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<td>7.1 to the note for all groups of IFB</td>
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<td>Participation of Authorized Indian Suppliers/ Indian Subsidiary or Associate on behalf of Foreign Manufacturer(s):</td>
<td>· Economic Development: Encouraging the utilization of local suppliers contributes to broader economic development objectives. It ensures that financial resources circulate within the local economy, potentially leading to downstream benefits for various sectors and communities.

· Reducing Dependency on Imports: Relying solely on foreign suppliers can pose risks in terms of supply chain disruptions, currency fluctuations, and geopolitical factors. By fostering a reliance on domestic sources, the country can mitigate some of these risks and enhance its self-sufficiency.

· Fostering Innovation and Capacity Building: Local content requirements incentivize domestic suppliers to invest in research, development, and technology transfer. This can lead to innovation and the building of local capacity, ultimately strengthening the country's industrial base.

Therefore, in the context of this domestic competitive bidding tender, the inclusion of a clause pertaining to the Participation of Authorized Indian Suppliers/Indian Subsidiary or Associate on behalf of Foreign Manufacturer(s) may run counter to the objectives of promoting local content and supporting domestic industries. Consequently, the bidder request Owner to remove this clause to ensure that the tender fully aligns with the principles of domestic competitiveness and local economic development.</td>
<td>Tender Condition Prevails</td>
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<td>7.2 of IFB</td>
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<td>a. Annual Turnover:

The minimum annual turnover achieved by the bidder as per their audited financial results during any one of the three preceding financial year shall be per below table:

GROUP TURNOVER
A INR 3,99,27,000/-
B INR 2,33,26,000/-</td>
<td>Bidder requests Owner to consider the following annual turnover values for the respective group for the subject tender, as the turnover values stated in the tender documentation for the past three years appear significantly lower in comparison to the project cost.

GROUP TURNOVER
A 12 Cr (approx.)
B 8 Cr (approx.)
C 12 Cr (approx.)</td>
<td>Tender Condition Prevails</td>
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				C INR 3,81,19,000/-		
23	7 of IFB	14 of 90		Split of award: 01 contractor is required in each group.	Bidder understands that the Owner will award all groups (Group-A, B & C) to the L1 Bidder, subject to the Bidder meeting the technical and financial qualification criteria for the subject project. Bidder requests Owner to confirm Bidder understanding.	Please refer clause no. 7.3 of IFB for qualification & award on cumulative basis. Tender Condition Prevails
24	1.4 Of Schedule of Rates (SOR) _Group A: 2 Nos. LNG-LCNG Satellite Station	1 of 1		**Comprehensive Maintenance:**	Bidder requests Owner to consider lump sum comprehensive maintenance charges for each station for the 2nd, 3rd, 4th, and 5th years after the warranty period in the tender, emphasizing that segregating each item is not feasible for the Bidder.	Tender Condition Prevails
				1.4.1. Comprehensive maintenance charges of the 56 KL Cryogenic Tank, LNG Unloading Centrifugal Pump Skid system and all other miscellaneous items which are not covered below including all spare parts and consumables for below mentioned years are in the scope of vendor.	Additionally, Bidder requests Owner to provide the revised Schedule of Rates (SOR) to enable the Bidder to submit a lump sum price for each station after the warranty period.	
				1.4.2. Comprehensive maintenance charges of the LNG Dispensing system (LNG Dispenser + Dispensing Pump and saturation skid) including all spare parts and consumables for below mentioned years are in the scope of vendor.		
				1.4.3. Comprehensive maintenance charges of the Low Pressure LCNG system including all spare parts and consumables for below mentioned years are in the scope of vendor.		
				1.4.4. Comprehensive maintenance charges of the High Pressure LCNG system including all spare parts and consumables for below mentioned years are in the scope of vendor.		
	1.4 Of Schedule of			**Comprehensive Maintenance:**	Bidder requests Owner to consider lump sum comprehensive maintenance charges for each station for the 2nd, 3rd, 4th, and 5th years after the warranty period in the tender, emphasizing that segregating each item is not feasible for the Bidder.	
				1.4.1. Comprehensive maintenance charges of the 56 KL Cryogenic Tank, LNG Unloading Centrifugal Pump Skid system and all other miscellaneous items which are not covered below including all spare parts and consumables for below mentioned years are in the scope of vendor.	Additionally, Bidder requests Owner to provide the revised Schedule of Rates (SOR) to enable the Bidder to submit a lump sum price for each station after the warranty period.	

25	Rates (SOR) _Group B: One No. LNG-LCNG Satellite Station	1 of 1		1.4.2. Comprehensive maintenance charges of the LNG Dispensing system (LNG Dispenser + Dispensing Pump and saturation skid) including all spare parts and consumables for below mentioned years are in the scope of vendor.		Tender Condition Prevails
				1.4.3. Comprehensive maintenance charges of the Low Pressure LCNG system including all spare parts and consumables for below mentioned years are in the scope of vendor.		
				1.4.4. Comprehensive maintenance charges of the Medium Pressure LCNG system including all spare parts and consumables for below mentioned years are in the scope of vendor.		
				1.4.5. Comprehensive maintenance charges of the High Pressure LCNG system including all spare parts and consumables for below mentioned years are in the scope of vendor.		
26	1.4 Of Schedule of Rates (SOR) _Group B: 3 Nos. LNG Fuelling Stations	1 of 1		**Comprehensive Maintenance:**	Bidder requests Owner to consider lump sum comprehensive maintenance charges for each station for the 2nd, 3rd, 4th, and 5th years after the warranty period in the tender, emphasizing that segregating each item is not feasible for the Bidder.	Tender Condition Prevails
				1.4.1. Comprehensive maintenance charges of the 56 KL Cryogenic Tank, LNG Unloading Centrifugal Pump Skid system, Low Pressure LCNG System and all other miscellaneous items which are not covered below including all spare parts and consumables for below mentioned years are in the scope of vendor.	Additionally, Bidder requests Owner to provide the revised Schedule of Rates (SOR) to enable the Bidder to submit a lump sum price for each station after the warranty period.	
				1.4.2. Comprehensive maintenance charges of the LNG Dispensing system (LNG Dispenser + Dispensing Pump and saturation skid) including all spare parts and consumables for below mentioned years are in the scope of vendor.		
27	1.3.2 Of Schedule of Rates (SOR) _Group A: Two Nos. LNG-LCNG Satellite Station	1 of 1		Manpower at LNG Fuelling Stations: Providing Manpower consisting of 6 Technicians (1 Technician + 1 Operator for dispensing of LNG in 8 hrs shift each) for continuous normal operations. Additional charges (per-shift) payable over and above minimum wages of workmen (semi-skilled labour for Operator & skilled labour for Technician) are to be quoted by bidders.	Bidder understands that for continuous normal operations of each LNG-LCNG Satellite Station, 6 numbers manpower are required daily (1 technician + 1 operator for dispensing LNG in an 8-hour shift each), totaling 2,190 manpower requirements per station annually. For the 2 Nos. LNG-LCNG Satellite Stations, this totals 9,855 manpower requirements. Bidder requests Owner to confirm Bidder understanding.	Tender Condition Prevails
				For 1st year - (1 Technician + 1 Operator x 3 shifts x 365 days): 2190	If the above manpower requirements are accurate, Bidder requests Owner to provide revised Schedule of Rates (SOR) to enable them to submit pricing accordingly for each station	

28	1.3.2 Of Schedule of Rates (SOR) _Group B: One No. LNG-LCNG Satellite Station	1 of 1		Manpower at LNG Fuelling Stations: Providing Manpower consisting of 6 Technicians (1 Technician + 1 Operator for dispensing of LNG in 8 hrs shift each) for continuous normal operations. Additional charges (per-shift) payable over and above minimum wages of workmen (semi-skilled labour for Operator & skilled labour for Technician) are to be quoted by bidders.	Bidder understands that for continuous normal operations of each LNG-LCNG Satellite Station , 6 numbers manpower are required daily (1 technician + 1 operator for dispensing LNG in an 8-hour shift each), totaling 2,190 manpower requirements per station annually. For the 1 No. LNG-LCNG Satellite Station, this totals 2,190 manpower requirements. Bidder requests Owner to confirm Bidder understanding.	Tender Condition Prevails
				For 1st year - (1 Technician + 1 Operator x 3 shifts x 365 days): 1095	If the above manpower requirements are accurate, Bidder requests Owner to provide revised Schedule of Rates (SOR) to enable them to submit pricing accordingly for each station	
29	1.3.2 Of Schedule of Rates (SOR) _Group C: 3 Nos. LNG Fuelling Stations	1 of 1		Manpower at LNG Fuelling Stations: Providing Manpower consisting of 6 Technicians (1 Technician + 1 Operator for dispensing of LNG in 8 hrs shift each) for continuous normal operations. Additional charges (per-shift) payable over and above minimum wages of workmen (semi-skilled labour for Operator & skilled labour for Technician) are to be quoted by bidders.	Bidder understands that for continuous normal operations of each LNG fuelling station, 6 numbers manpower are required daily (1 technician + 1 operator for dispensing LNG in an 8-hour shift each), totaling 2,190 manpower requirements per station annually. For the 3 Nos. LNG fuelling stations, this totals 9,855 manpower requirements. Bidder requests Owner to confirm Bidder understanding.	Tender Condition Prevails
				For 1st year - (1 Technician + 1 Operator x 3 shifts x 365 days): 3285	If the above manpower requirements are accurate, Bidder requests Owner to provide revised Schedule of Rates (SOR) to enable them to submit pricing accordingly for each station.	
30	1.2 & 1.3 Of Schedule of Rates (SOR) _Group A: Two Nos. LNG-LCNG Satellite Station	1 of 1		Erection & Commissioning of LNG/LCNG Stations at Rajasthan, Haryana, Uttar Pradesh State or IGL Defined Location and Manpower at LNGLCNG Stations at Rajasthan, Haryana, Uttar Pradesh State or IGL Defined Location	Bidder understands that two LNG/LCNG stations are required for Group-A, with specified locations in the tender: Dharuhera, Rewari – Haryana & Tehsil Dadri, Gautam Buddha Nagar - Uttar Pradesh. However, in the Schedule of Rates (SOR), the locations of the stations are mentioned as Rajasthan, Haryana, and Uttar Pradesh states. Bidder requests Owner to specify the locations of the stations in the SOR according to the tender documents.	Please refer to clause no. 2.1/ 2.6/ 3.2 of IFB for delivery locations. Delivery locations are indicative in nature and may change as per requriement. Tender Condition Prevails

31	1.2 Of Schedule of Rates (SOR) _Group B: One No. LNG-LCNG Satellite Station	1 of 1		Erection & Commissioning of LNG/LCNG Stations at Rajasthan, Haryana, Uttar Pradesh State or IGL Defined Location and Manpower at LNGLCNG Stations at Rajasthan, Haryana, Uttar Pradesh State or IGL Defined Location	Bidder understands that three LNG/LCNG station is required for Group-B, with specified location in the tender: Jharwasa, Tehsil Nasirabad, Ajmer - Rajasthan. However, in the Schedule of Rates (SOR), the locations of the station are mentioned as Rajasthan, Haryana, and Uttar Pradesh states. Bidder requests Owner to specify the location of the station in the SOR according to the tender documents.	Please refer to clause no. 2.1/ 2.6/ 3.2 of IFB for delivery locations. Delivery locations are indicative in nature and may change as per requriement. Tender Condition Prevails
32	1.3 Of Schedule of Rates (SOR) _Group C: 3 Nos. LNG Fuelling Stations	1 of 1		Erection & Commissioning of LNG Fuelling Station at Rajasthan State or IGL Defined Location and Manpower at LNG Fuelling Station at Rajasthan State or IGL Defined Location	Bidder understands that three LNG Fuelling stations are required for Group-C, with specified locations in the tender: Bhilwada Border, NH – 48 – Rajasthan , NH – 27 (Udaipur – Chittorgarh) - Rajasthan and CONCOR Terminal . However, in the Schedule of Rates (SOR), the locations of the stations are mentioned as Rajasthan state. Bidder requests Owner to specify the locations of the stations in the SOR according to the tender documents.	Please refer to clause no. 2.1/ 2.6/ 3.2 of IFB for delivery locations. Delivery locations are indicative in nature and may change as per requriement.
33	4.1.1 (f)	7 of 174		LNG Unloading system shall be with breakaway couplings & check valves.	It is not advisable to provide Breakaway coupling between tanker and pump since this can result in a higher suction pressure drop, which can affect pump performance because there is less NPSH available during suction.	Noted. To be discussed during detailed engineering.
34	4.1.1 (k)	7 of 174		Landing Stairs, crossover etc	Bidder requests Owner to exclude all stairs, crossover etc. from Bidder scope of supply.	Tender Condition Prevails
35	4.2 (e, f)	10 of 174		Conductance of QRA, ERDMP	Normally Emergency response & disaster management plan & QRA etc. study in owner's scope as this involves complete plant working and integration for the study.	Tender Condition Prevails
36	1.1	20 of 174		Zero boil off even under no consumption condition.	As LNG is cryogenic liquid stored in boiled condition so zero boil off is not possible hence bidder understand that system should be designed with minimum boil off instead of zero boil off.	Please refer to clause 1.3.2. page no. 21 of 174 Tender Condition Prevails

37	1.3.1	20 of 174		Major Equipment	Bidder understands that all the major equipment's quantity, working philosophy (Working + Standby) and capacity shall be as per SOR Group A,B,C.	Please refer to SOR for Group A, Group B & Group C for major equipment quantity. For other details refer Technical Specifications & detailed scope of work.
38	1.3.1	20 of 174		Unloading Skid shall have automatic PLC based control system.	LNG unloading to tank is manned activity with automatic interlocks and logic for safe operation through PLC SCADA with transmitter and VFD will be placed. Please confirm bidder understanding is correct.	Bidder understanding is correct
39	1.3.4 (ii) Annexure-I	23 of 174		Pressure Regulating & Metering Skid	Normally for MP stream with pumps pressure can be maintained hence separate pressure regulating system is not required only flow meter is sufficient, Hence please confirm bidder understanding of removal of pressure regulating for	Tender Condition Prevails
40				General	Bidder understands all civil related activity are in owner's scope.	Civil work is excluded from the scope of the bidder. However bidder shall provide civil foundation drawings along with other related documents for LNG equipments.
41	1.3.5 (ii)	23 of 174		High Pressure vaporizer changeover shall be automatic.	Normally HP vaporizer operation is maintained manually as per industry practice. HP stream works on fixed hours basis.	Noted.
42	1.3.6 (ii) Annexure-I	25 of 174		LNG Dispenser	As mass flow meter qty. inside dispenser not specified please specify requirement i.e. LNG dispenser to be supplied with two nos. MFM (1 no. on liquid line and 1 no on gas return line) or 1 no. MFM on liquid line. Bidder requests Owner to confirm MFM qty.	2 nos. MFM to be provided in LNG Dispenser. 1. LNG Inlet Line 2. Vent/ Return Line
43	1.3.9 Annexure-I	26 of 174		Interconnecting Piping shall be double walled vacuum jacketed.	Bidder requests Owner to consider all liquid lines with cold insulation and vapor lines with personal protection and VJ lines will be from dispensing pump skid to dispenser.	Tender Condition Prevails
44	1.3.10	26 of 174		Odorization System	For SOR group B: Please advice if for Odorization to LP stream if tapping with regulator from MP orodorizing stream can be taken as LP stream flow is very low without considering separate pumping system.	To be discussed during detailed engineering.

45	Detailed scope of work (14)	30 of 174		Scope	Bidder understands that scope, qty & philosophy shall be as per SOR.	Please refer to SOR for Group A, Group B & Group C for major equipment quantity. For other details refer Technical Specifications & detailed scope of work. Tender Condition Prevails
46	Datasheet of vaporizer	38,39,40 of 174		Vaporizer Inlet/outlet size (1/2" SS NPTF)	We requests Owner to consider vaporizer to be supplied with inlet / outlet connection as per ASME B16.5 flanged end.	To be discussed during detailed engineering.
47	Datasheet of vaporizer	39,40 of 174		Low pressure/medium pressure vaporizer pipe/structure shall be SS304	Bidder requests Owner consider aluminium vaporizer for LP/MP stream instead of SS304 in Bidder scope, as these are widely used in the industry in place of SS Vaporizer.	Noted. To be discussed during detailed engineering.
48	Datasheet of Pump	43,44,45,46 of 174		HP/MP/Unloading/Dispensing Pump MOC and Design code.	Design Code: As per API674 / API 610 with deviation as per PUMP OEM std no specific standard available for cryogenic pump. Pump material of construction: Material of construction of pump shall be as per pump OEM standard suitable for Cryogenic & LNG service with design life of 20 years by complying maintenance schedule as advised by pump OEM. Testing/Certification: As per CODE & OEM Std. Pumps will be procured from approved vendor's list.	Noted. To be discussed during detailed engineering.
49	4.1.4. a	9/174		415V switch boards with necessary capacitor bank to improve the power factor to 0.95 (min.) as per single line diagram	Bidder understands APFC panel shall be in the scope of Owner. Bidder requests Owner to confirm Bidder understanding. Bidder understands that the single line diagram is not available in the tender documents. Therefore, Bidder requests Owner to provide the same for tender submission.	Tender Condition Prevails To be discussed during detailed engineering.
50	4.1.4. b	9/174		230 V, 1 Phase, 50 Hz, 5 kVA AC UPS with sealed maintenance free (SMF) battery bank for 1 hour back up.	UPS for PLC power backup of 30 minutes as per detailed scope of work and rating shall be Bidder design. Kindly confirm	Tender Condition Prevails
51	4.1.4. e	9/174		Entire earthing and lightning protection system including earthing pit, earthing conductor, lightning protection material, down conductor, clamps, connectors etc.	Bidder understands that Civil work for earthing pit shall be in the scope of Owner along with other civil work.	Tender Condition Prevails

52	4.1.4. (i)	9/174		Other miscellaneous items like danger board, shock chart, safety gloves, rubber mat as per IS 15652, first aid kit etc	Bidder requests Owner to exclude the scope of misc. item from the Bidder scope. Kindly confirm.	Tender Condition Prevails
53	1.3.7	25/174		HMIs (Engineering Workstation/ Operator Workstation) and licensed software for developing/ modification of logics; consoles for HMI installation; A3 colour laser printer; necessary LAN network & accessories; chairs, etc.	(1) Bidder understands that only runtime time licensed software with operating work station shall be applicable for the Bidder scope. Bidder requests Owner to confirm Bidder understanding. (2) Bidder requests Owner to exclude the scope of consoles for HMI installation; A3 colour laser printer; necessary LAN network & accessories; chairs from the Bidder scope. Kindly confirm.	Tender Condition Prevails
54	14	30, 122/174		PLC controlled Odoriser or Electronic control unit	Bidder understands that Odoriser shall be integrated and controlled through Bidder's PLC/SCADA and no separate PLC or ECU will be require. Bidder requests Owner to confirm Bidder understanding.	Tender Condition Prevails
55	General	66/175		Input type shall be intrinsically safe with barriers for analog input modules and explosion proof type for digital input modules. Only Active Barriers shall be employed for achieving galvanic isolation, wherever applicable.	Bidder requests Owner to consider all instrument should be explosion proof instead intrinsically safe in Bidder scope. Kindly confirm	Tender Condition Prevails
56	DATASHEET OF LEL DETECTORS	48/174		POINT TYPE INFRA RED GAS DETECTORS with display.	Bidder requests Owner to consider catalytic gas detector instead of Point type IR gas detectors in Bidder scope. Kindly confirm.	Tender Condition Prevails
57	DATASHEET OF LEL DETECTORS	49/174		Set of fully equipped calibration gas kit	Bidder Understands that Calibration gas kit is in scope Owner. Bidder requests Owner to confirm Bidder understanding.	Tender Condition Prevails
58	FIELD MOUNTED FLOW COMPUTER	50/174		FIELD MOUNTED FLOW COMPUTER with licensed software	Bidder requests Owner to consider EVC instead of Field Mounted flow computer in Bidder scope. Kindly confirm.	Tender Condition Prevails
59	FIELD MOUNTED FLOW COMPUTER	52/174		GSM MODEM	Bidder Understands that GSM shall not applicable along with flow computer. Kindly confirm.	Tender Condition Prevails
60	TERM SHEET	55/174		Any furniture and accessories such as AC in Control Room, Supply of dedicated lease line for PLC system if required	Bidder requests Owner to exclude the scope of furniture and other accessories from the Bidder scope of work and the same shall be in the Owner Scope. Kindly confirm.	Tender Condition Prevails
61	General	64/174		Programmable logic controller (PLC) shall be dual redundant hot standby PLC with dual processors and single I/O for all process I/O as specified.	Bidder requests Owner to consider stand along PLC with single processor and I/O in Bidder scope. Kindly confirm.	Tender Condition Prevails

62	5	82/174		All instruments shall be calibrated strictly as per manufacturer's instructions prior to the installation.	Bidder understands that all instrument having manufacture calibration certification and initial calibration is not applicable. Bidder requests Owner to confirm Bidder understanding.	Calibration will be in the scope of the bidder during commissioning and CAMC period of 5 years and valid calibration certificates to be submitted to IGL.
63	4.5	113/174		Multi Cable Transit shall be used for cable entry to all type of control room walls, Decks, Firewall etc.	Bidder understands that Civil work along with transit shall be in the scope of Owner. Bidder requests Owner to confirm Bidder understanding.	Tender Condition Prevails
64	5.2	12/174		At power supply terminal of the IGL distribution board at the existing electrical room	Bidder understands that Owner will provide incoming power cable upto the Bidder's PDB panel located in electrical room.	Bidder shall arrange necessary power cables for supply from IGL distribution board. Tender Condition Prevails
65	1.3.2 f	151/174		Fire alarm panel shall have dedicated battery backup available which shall last for 24 hours + 15 minutes (alarm) in case of emergency.	Bidder requests Owner to connect Fire alarm panel with UPS to avoid dedicated battery backup system. Kindly confirm.	Tender Condition Prevails
66	1.3.5	154/174		Minimum nos. of fire detection equipment per station.	Bidder understands that Bidder scope is limited upto specified quantity with 10% spare.	Tender Condition Prevails
67	General			Temperature Transmitter	Bidder understands that head mount transmitter (without display) is acceptable. Bidder requests Owner to confirm Bidder understanding.	Bidder understanding is correct
68	Annexure-XIV, LNG Dispenser	161 of 174		Inlet and return Control valve	PESO, W&M type approved LNG Dispenser has On-Off valve, hence please accept the same.	Noted. To be discussed during detailed engineering.

69	Annexure-XIV, LNG Dispenser	161 of 174		LNG dispensing nozzle: Size 1", Type JC Carter nozzle	Bidder requests Owner to consider REGO make Nozzle as this is internationally recognized.	Bidder may supply other make LNG dispensing nozzle subject to submission of PTR documents & approval by IGL. Also, bidder has to ensure compatibility or provide suitable arrangement along with nozzle to fill LNG vehicles with any type of recepticle. Filling nozzle & arranegment shall comply to Indian/ International safety and operational standards
70	Annexure-XIV, LNG Dispenser	161 of 174		Integration to card payment and printing facility	Bidder will provide Modbus communication to PLC/SCADA from dispenser in the control room, then on the control room printer can be provided for printing/payment.	Noted. To be discussed during detailed engineering.
71	Datasheet of Tank	37 of 174		Outer Vessel MOC SA 516 Gr.70	Bidder requests Owner / PMC to consider outer vessel material as IS 2062 E250 instead of SA 516 Gr.70 which is suitable for design temperature -20 °C to +65°C and also to ease of shorter delivery period as compare to SA 516 Gr.70.	IS2062 is acceptable.
72	----	----		LNG Dispenser vendor list	Bidder understands that the LNG Dispenser vendor is not specified in the tender documents. Bidder requests Owner to provide the vendor list for the LNG dispenser and also requests Owner to consider the reputed manufacturers for the supply of LNG dispenser.	Bidder may supply LNG Dispenser with valid PESO and W&M approval at the time of submission of bid.

73	BIDDER EVALUATION CRITERIA (BEC)	10 of 90	7.1 (a)	Group-A The bidder shall have designed, manufactured, supplied, installed & commissioned Cryogenic LNG storage tanks (at least one number of minimum capacity 56 KL) with regasification unit in last 7 years reckoned from bid due date. The bidder should be a manufacturer of cryogenic storage tank with valid PESO certificate of the same (56 KL Tank). If bidder is not a cryogenic storage tank manufacturer, then the bidder must furnish along with the bid valid PESO certificate of cryogenic storage tank along with firm supply agreement against the tender from the manufacturer of cryogenic storage tank. The bidder to submit undertaking along with the bid from the cryogenic storage tank manufacturer to own complete responsibility of design, QA/QC, after sales technical support, unconditional guarantee/warrantee, post warrantee service and after sales support to the purchaser till the lifecycle of storage tank.	Currently LNG station tenders of other CGDs and PSUs permit suppliers of LNG Dispensers and Pumps to participate in the bids. Recently, an on-going tender of a renowned Public Sector Organization for DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF LNG STORAGE FACILITY ALONG WITH LNG DISPENSING FACILITY AT KOSIKALAN also allows Bidders with experience of Supply & Installation of LNG/LCNG dispensing pump/ dispenser to be eligible to bid. We request for the inclusion of Supply & Installation of LNG Dispenser for qualification of technical BEC.	Tender Condition Prevails

74	BIDDER EVALUATION CRITERIA (BEC)	10 of 90	7.1 (b)	Group-B The bidder shall have designed, manufactured, supplied, installed & commissioned Cryogenic LNG storage tanks (at least one number of minimum capacity 56 KL) with regasification unit in last 7 years reckoned from bid due date. The bidder should be a manufacturer of cryogenic storage tank with valid PESO certificate of the same (56 KL Tank). If bidder is not a cryogenic storage tank manufacturer, then the bidder must furnish along with the bid valid PESO certificate of cryogenic storage tank along with firm supply agreement against the tender from the manufacturer of cryogenic storage tank. The bidder to submit undertaking along with the bid from the cryogenic storage tank manufacturer to own complete responsibility of design, QA/QC, after sales technical support, unconditional guarantee/warrantee, post warrantee service and after sales support to the purchaser till the lifecycle of storage tank.	Currently LNG station tenders of other CGDs and PSUs permit suppliers of LNG Dispensers and Pumps to participate in the bids. Recently, an on-going tender of a renowned Public Sector Organization for DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF LNG STORAGE FACILITY ALONG WITH LNG DISPENSING FACILITY AT KOSIKALAN also allows Bidders with experience of Supply & Installation of LNG/LCNG dispensing pump/ dispenser to be eligible to bid. We request for the inclusion of Supply & Installation of LNG Dispenser for qualification of technical BEC.	Tender Condition Prevails

75	BIDDER EVALUATION CRITERIA (BEC)	10 of 90	7.1 (c)	Group-C The bidder shall have designed, manufactured, supplied, installed & commissioned Cryogenic LNG storage tanks (at least one number of minimum capacity 56 KL) with regasification unit in last 7 years reckoned from bid due date. The bidder should be a manufacturer of cryogenic storage tank with valid PESO certificate of the same (56 KL Tank). If bidder is not a cryogenic storage tank manufacturer, then the bidder must furnish along with the bid valid PESO certificate of cryogenic storage tank along with firm supply agreement against the tender from the manufacturer of cryogenic storage tank. The bidder to submit undertaking along with the bid from the cryogenic storage tank manufacturer to own complete responsibility of design, QA/QC, after sales technical support, unconditional guarantee/warrantee, post warrantee service and after sales support to the purchaser till the lifecycle of storage tank.	Currently LNG station tenders of other CGDs and PSUs permit suppliers of LNG Dispensers and Pumps to participate in the bids. Recently, an on-going tender of a renowned Public Sector Organization for DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF LNG STORAGE FACILITY ALONG WITH LNG DISPENSING FACILITY AT KOSIKALAN also allows Bidders with experience of Supply & Installation of LNG/LCNG dispensing pump/ dispenser to be eligible to bid. We request for the inclusion of Supply & Installation of LNG Dispenser for qualification of technical BEC.	Tender Condition Prevails
76	BIDDER EVALUATION CRITERIA (BEC)	11 of 90	7.1 (iv)	The bidder should have either prior experience of manufacturing of cryogenic storage tank or shall have experience of successful erection and commissioning of LNG handling station.	We request for the acceptance of Bidder's experience towards successful erection and commissioning of LNG / CNG handling station.	Tender Condition Prevails
77	BIDDER EVALUATION CRITERIA (BEC)	11 of 90	7.1 (iv)	The bidder should have either prior experience of manufacturing of cryogenic storage tank or shall have experience of successful erection and commissioning of LNG handling station.	We request for the acceptance of the Bidder's / Foreign manufacturer's experience towards successful erection and commissioning of LNG handling station / equipment.	Tender Condition Prevails

78	Financial BEC	12 of 90	7.2	(a) **Annual Turnover**: The minimum annual turnover achieved by the bidder as per their audited financial results during any one of the three preceding financial year shall be per below table: S. No. / Group / Annual Turnover (INR) 1 / Group-A / 3,99,27,000/- 2 / Group-B / 2,33,26,000/- 3 / Group-C / 3,81,19,000/- (b) **Net Worth**: The net worth of the bidder for above tender must be **positive** for the preceding financial year. (c) **Working Capital**: The minimum working capital of the bidder as per audited financial statement for preceding financial year shall be as per below table: S. No. / Group / Working Capital (INR) 1 / Group-A / 1,59,71,000/- 2 / Group-B / 93,31,000/- 3 / Group-C / 1,52,48,000 /-	tance of financial Company with he bidder.	Tender Condition Prevails
79	Participation of Authorized Indian Suppliers /Indian Subsidiary or Associate on behalf of Foreign Manufacturer(s)	11 of 90	7.1	Foreign Manufacturer (having manufacturing unit outside India) may submit their bid through authorized Indian supplier/ Indian subsidiary or Associate. In such a case authorized Indian supplier / Indian Subsidiary or Associate may submit bid as “Bidder” subject to their Foreign Manufacturer fulfilling the criteria stipulated at point (a) or (b) or (c) for each group above.	on-going IGL Tender P/CC18051 For Setting- nts At Two Locations In DELHI-NCR allowing Participation of Authorized channel partner on behalf of Foreign/ Indian OEM. We request for the inclusion of Foreign / Indian Manufacturer (having manufacturing unit outside / within India) may submit their bid through authorized Indian supplier / Indian subsidiary or Associate. In such a case authorized Indian supplier / Indian Subsidiary or Associate may submit bid as “Bidder” subject to their Foreign / Indian Manufacturer fulfilling the criteria stipulated at point (a) or (b) or (c) for each group above.	Tender Condition Prevails
80				Bidder evaluation criteria (BEC)	Global companies offer complete LNG and LCNG stations with in-house critical components like Reciprocating, centrifugal pumps, Vaporizers, and LNG dispenser manufacturing capabilities. They have installed several CNG stations, LNG stations (both modular and fixed), regasification plants, and LCNG stations over the last 20 years. However, they do not qualify to bid as per the BEC criteria. The BEC shall be accommodative for the bidder with vast experience in building CNG stations, LNG stations, and Hydrogen fueling stations worldwide with a proven track record.	Tender Condition Prevails

81				1.3.1 LNG Unloading pump skids	1.3.1 The pump will unload LNG from the road tanker to the storage tank with a minimum 350 LPM flow and approx. 8-12 bar (g) differential pressure of LNG (or as required). Query: Please advise the minimum suction pressure and temperature at the pump inlet for the seamless pump performance.	Bidder to select pump to meet specified requirements. Tender Conditions Prevails.

82				1.3.4. (i) Medium Pressure pump	There shall be 2 nos. of medium pressure reciprocating pumps (1 working + 1 standby) or 3 nos. Query: 1. We understand there shall be 2 nos. of medium pressure reciprocating pumps (1 working + 1 standby) or 3 nos. (2 working + 1 standby). 2. Shall we consider a PLC-controlled pneumatic shut-o valve for the medium-pressure discharge LNG line for safe operation under the emergency shutdown? 3. For cavitation protection, shall we o er a pneumatic auto valve in the vent line? 4. Shall we consider a low lube pressure switch for the lubrication system protection? 5. Shall we consider the temperature transmitter and pressure transmitter to have the signal in the PLC/SCADA for automatic operation? 6. Is the needle valve in the discharge line for the emergency manual operation incorporated in the design?	Bidder may supply working & standby options as mentioned in the SOR as per their design and availibility.

83				1.3.5 I High-Pressure Reciprocating Pumps.	There shall be 3 nos. of high-pressure reciprocating pumps (2 working + 1 standby). Query: 1. Can we offer 1 working + 1 stand-by pump; which enables us to select an identical pump to the medium pressure pump to have a spare parts interchangeability advantage and lesser footprint in the plant layout? 2. Shall we consider a PLC-controlled pneumatic shut-off valve for the medium-pressure discharge LNG line for safe operation under the emergency shutdown? 3. For cavitation protection, shall we offer a pneumatic auto valve in the vent line? 4. Shall we consider a low lube pressure switch for the lubrication system protection? 5. Shall we consider the temperature transmitter and pressure transmitter to have the signal in the PLC/SCADA for automatic operation? 6. Is the needle valve in the discharge line for the emergency manual operation incorporated in the design?	Bidder may supply working & standby options as mentioned in the SOR as per their design and availibility.

84				1.3.7 Centralized control and Monitoring system	LNG storage and distribution plant operations should be controlled by centralized PLC and SCADA system for better and safer operations with manual interventions wherever applicable and with the provision for hook-up with controlled SCADA system of client Query: Please include the safety and automation instruments as recommended in points: 2 and 3 above to have safer operation with manual intervention for the monitoring of hook-up with a controlled SCADA system.	To be discussed during detailed engineering.
85				Detailed scope of the vendor. Point no: 2, 3, 12 & 18	Pre-dispatch Inspection (PDI) testing is not included in the scope of supply. Pre-dispatch inspection (PDI) testing on LIN will ensure the pump performance, packaging quality, and operation safety at the site. If the assemblies are not testing on cryogenic liquid, direct cryogenic leaks can cause cold burns and frostbite. Please confirm that the cryogenic pump skids shall be required to test on Liquid Nitrogen before the dispatch.	Succesful bidder to carry out pre-dispatch inspection as per QAP approved by IGL.

86				Data Sheet for LNG High-Pressure pump (250 bar)	The design code shall be specified as API 674. Query: The design code shall be followed as per the tender requirement. Nikkiso ACD does have standard deviation and exceptions. Is the bidder required to submit the exceptions and deviations at the bidding stage or the bid technical evaluation stage?	Noted. To be discussed during detailed engineering.
87				Data Sheet for LNG MP pump (30 bar)	The design code shall be specified as API 674. Query: The design code shall be followed as per the tender requirement. Nikkiso ACD does have standard deviation and exceptions. Is the bidder required to submit the exceptions and deviations at the bidding stage or the bid technical evaluation stage?	Noted. To be discussed during detailed engineering.
88				Data Sheet for LNG Unloading pump (350-380 LPM)	The design code shall be specified as API 610. Query: The design code shall be followed as per the tender requirement. Nikkiso ACD does have standard deviation and exceptions. Is the bidder required to submit the exceptions and deviations at the bidding stage or the bid technical evaluation stage?	Noted. To be discussed during detailed engineering.

89				Data Sheet for LNG dispensing pump (150-350 LPM)	The design code shall be specified as API 610. Query: The design code shall be followed as per the tender requirement. Nikkiso ACD does have standard deviation and exceptions. Is the bidder required to submit the exceptions and deviations at the bidding stage or the bid technical evaluation stage?	Noted. To be discussed during detailed engineering.
90	Commercial Vol	11	7.3 b	However, for Technical BEC, bidder shall be considered qualified for award of Group A, Group B & Group C (in any combination), if bidder has submitted relevant documents related to design, manufacturing, supply, installation & commissioning of Cryogenic LNG storage tanks for at least one number of minimum capacity 56 KL with regasification unit at two separate locations in a single work order / contract / tender in last 07 years from date of floating of tender	We request to remove single order criteria for 2 unit supply. We have supplied more then 20+ LNG station that does not make non competant to us. Please consider 2 unit supplied to different client will also be accetable.	Tender Condition Prevails
91	Commercial Vol	11	7.3 b	However, for Technical BEC, bidder shall be considered qualified for award of Group A, Group B & Group C (in any combination), if bidder has submitted relevant documents related to design, manufacturing, supply, installation & commissioning of Cryogenic LNG storage tanks for at least one number of minimum capacity 56 KL with regasification unit at two separate locations in a single work order / contract / tender in last 07 years from date of floating of tender	Incase Bidder Wants to quote for more then 1 group then Total How many PO and its respective completion certificate to be submitted ? For geeting elible in all 3 station.	Please refer to clause no. 7.3 of IFB for qualification & award on cumulative basis. Tender Condition Prevails
92	Commercial Vol	14	8	Split of Award	Can single bidder will be alloted all 6 station considering he is L1 in all 3 group	Please refer to clause no. 7.3 of IFB for qualification & award on cumulative basis. Tender Condition Prevails

93	Commercial Vol	16	12.3	Purchaser (IGL) reserves the right to increase or decrease the scope of work of bidders before or after award of work as per business requirement.	This violates the tender terms - As we have been asked to quote as per SOW - Howw come Purchaser reserve the right to Increase/Decrease the SOW. We request to delete such clause.	Tender Condition Prevails
94	Commercial Vol	31	43	PURCHASER'S RIGHT TO VARY QUANTITIES DURING CONTRACT PERIOD	This kind LNG station is not purely based on qty, If you add the quantities in any segment it will add another cost in terms of cable/instruments and its required IO to be added in PLC. So Qty to remain firm as per SOR. Please confirm.	Tender Condition Prevails
95	Commercial Vol	8	3.1	Duration of Contract: 1 year	Bid validity for such prolonged period is not recommended. Kindly issue the Contract in 2-3 months time from the date of opening of price Bid.	Tender Condition Prevails
96	Commercial Vol	8	3.1	For supply, erection and commissioning - Delivery Schedule	In 6 Months It can never be commissioned consdiering the Local approval/Civil Works etc. Kindly Extend upto 8 months time. 6 Months for Supply of items & 2 Months for IEC. LD is purely visible in 6 months time. Please correct the timelines.	Tender Condition Prevails
97	Commercial Vol	8	4.1	Bid Validity: Bid should be kept valid for 90 (Ninety) days	This clause is contradicting with Duration of contract with 1 year. We understand that our price will remain valid till 90 days ONLY. Post 90 days PO award for LNG station shall be mutually agreed.	Bid Validity is for 90 days till award. Contract Duration is for one year after award. Tender Condition Prevails
98	Commercial Vol	9	7.1	BEC-technical	Being such technological advanced station and niche requirement, we recommend to optimise the BEC criteria by having LCNG experience and LNG dispensing experience.	Tender Condition Prevails
99	Commercial Vol	58	6.1	CPBG	We understand - Post award 10% of LNG Station capex value to be submitted as CPBG. And for O&M - Annulised order value 10% CPBG to be submitted. Kindly confirm the understanding.	Tender Condition Prevails
100	Commercial Vol	59	10	TERMS OF PAYMENTS	Dear Sir, a genuine request to consider the advance of 30% against ABG 50% against material dispatch 10% against Erection of equipment 10% against final commissioning of the plant	Tender Condition Prevails
101	Commercial Vol	59	10.3	On pro-rata monthly basis, against monthly invoices duly certified by Engineer-in Charge within 45 (Forty-Five) working days from the date of submission of bills to the owner.	45 Days is very long time. Request to consider the payment by 7 days.	Tender Condition Prevails

102	Commercial Vol	59	12	Payment shall be released to bidders within a period of forty five (45) days, as per clause 10.0 above, of receipt of invoice with all relevant / supporting documents, by IGL through Cheque/ RTGS.	45 Days is very long time. Request to consider the payment by 7 days.	Tender Condition Prevails
103	Annexure V	72	2.4	Valves for instrumentation	Bidder understand that valves for impulse tubing valves shall be needle valve fabricated from bar stock. For process piping all isolation valves will be either ball valves or globe valves.	Noted. To be discussed during detailed engineering.
104	Annexure V	74	3.2.1.1	Impulse piping primary valves	There are no such piping specification in tender. Hence instument will be with manifold valves only.	Noted.
105	Annexure V	74	3.2.1.1	Manifold valves for instruments	3 way Manifold valves are not required as integral part of instrument as we are already providing supports to impulse tubing. Also we are providing manifold valves for instruments for isolation and drain, no need of other primary valves at impulse tubing.	To be discussed during detailed engineering.
106	Annexure V	80	3.6	Instrument Steam Tracing	Instrumentv heat tracing is not required in cryogenic system. User to confirm.	Tender Condition Prevails
107	Annexure V	79	3.6	Analyser	Please confirm supply, installation and its integration of analyser as per this clause is not in bidder.	Bidders understanding is correct. Analyzer is not in bidders scope.
108	ANNEXURE – VII	93	2	socket and plug for telephone	Telephone socket and plug is not required for in junction boxes for this system as it is PLC controlled system.	Noted.
109	ANNEXURE – VII	94	2.6	Pneumatic junction box	Pneumatic junction boxes are not applicable as air tubing will distribute from meain header only. And further isolation valves, solenoid valves , AFR etc will be near to valve and on air tubing only.	Noted.
110	ANNEXURE – XI	123	3.3	Pneumatic panel	All instruments in odorizer pneumatic panel is as per odorizer vendor standard.	Noted.
111	Technical Volume	7/174	4.1.1 c	LNG dispensing pump flow	The flow rate should be 150 LPM to match to saturation skid and dispenser. If flow is higher then sat skid will not be able to handle. Please confirm.	Noted.
112	Technical Volume	8/174	4.1.2	Fire water system	Pls confirm that fire water tanks are not in bidders scope	Water Tanks are not in bidders scope

113	Technical Volume	9/174	4.1.4 d	Incoming main Elec cable	Pls confirm that power supply point is in same room where LNG pump panel is located or else pls confirm the distance between supply point to pump panel room	Bidder shall arrange necessary power cables for supply from IGL distribution board. For estimation purpose 50 mtrs. distance may be considered. However it may vary and bidder to supply as per actual site requirement.
114	Technical Volume	21/174	1.3.2	Storage tank piping material	As storage tank itself is SS304 and data sheet also specify piping material is SS304, We assume that all piping shall be SS304	Bidder understanding is correct
115	Technical Volume	22/174	1.3.4 (i)	Pressure after Med pressure vap stream	Pls confirm value of Gas pressure at final battery limit after PRS. The value is specified as 25-29/19-25/17-25 at various places in tender	Gas at 25-29 Bar (g) to be considered at final battery limit
116	Technical Volume	26/174	1.3.9	Double walled vacuum insulated piping	Pls confirm this is only for LNg dispensing lines	Bidder understaning is correct. However it will be discussed during detailed engineering.
117	Technical Volume	General		Scope of supply - discrepancies/duplication	Scope of supply for LNg dispensing is given on page 6-11/174, the scope of supply also given on pages 20-35/174 and also there are 3 SOR sheets. Quantities of many items such as LNg dispensing pumps, air compressors etc not differing in these pages. Pls confirm that qty mentioned in SOR is the final.	Please refer to SOR for Group A, Group B & Group C for major equipment quantity. For other details refer Technical Specifications & detailed scope of work.
118	Technical Volume	37/174		Tank data sheet- Outer vessel material	Pls confirm if we can use IS2062 for outer jacket as it is industry standard and also readily available, used on standard LNg and cryogenic tanks and have same properties.	IS2062 is acceptable Tender Condition Prevails
119	Technical Volume	38/174	4	High pressure vaporiser data sheet- Frame material	Pls confirm Aluminium is accepted as SS304 is very costly and all standard vaporisers use Aluminium	Noted. To be discussed during detailed engineering.

120	Technical Volume	39/174	4	Low pressure vaporiser data sheet- Frame material	Pls confirm Aluminium is accepted as SS304 is very costly and all standard vaporisers use Aluminium	Noted. To be discussed during detailed engineering.
121	Technical Volume	39/174	4	Low pressure vaporiser data sheet- Pipe /bends	Pls confirm Aluminium is accepted as for low pressure SS is not required. PESO has also approved Aluminium as material for low and medium pressure vaporisers	Noted. To be discussed during detailed engineering.
112	Technical Volume	40/174	4	Medium pressure vaporiser data sheet- Frame material	Pls confirm Aluminium is accepted as SS304 is very costly and all standard vaporisers use Aluminium	Noted. To be discussed during detailed engineering.
123	Technical Volume	40/174	4	Medium pressure vaporiser data sheet- Pipe /bends	Pls confirm Aluminium is accepted as for low pressure SS is not required. PESO has also approved Aluminium as material for low and medium pressure vaporisers	Noted. To be discussed during detailed engineering.
124	Technical Volume	41/174	4	High pressure vaporiser data sheet- Frame material	Pls confirm Aluminium is accepted as SS304 is very costly and all standard vaporisers use Aluminium	Noted. To be discussed during detailed engineering.
125	Technical Volume	42/174	4	Low pressure vaporiser data sheet- Frame material	Pls confirm Aluminium is accepted as SS304 is very costly and all standard vaporisers use Aluminium	Noted. To be discussed during detailed engineering.
126	Technical Volume	42/174	4	Low pressure vaporiser data sheet- Pipe /bends	Pls confirm Aluminium is accepted as for low pressure SS is not required. PESO has also approved Aluminium as material for low and medium pressure vaporisers	Noted. To be discussed during detailed engineering.
127	Technical Volume	43/174		Pump design code	These pumps are made as per manufacturers standards. So we shall offer pump from the approved vendors as per their standard models.	Noted. To be discussed during detailed engineering.
128	Technical Volume	44/174		Pump design code	These pumps are made as per manufacturers standards. So we shall offer pump from the approved vendors as per their standard models.	Noted. To be discussed during detailed engineering.

129	Technical Volume	45/174		Pump design code	These pumps are made as per manufacturers standards. So we shall offer pump from the approved vendors as per their standard models.	Noted. To be discussed during detailed engineering.
130	Technical Volume	45/174		Control panel - LNG unloading pump	Since this panel is located inside AC control room, the panels shall ne not NEMA4 but normal IP standard.	Noted. To be discussed during detailed engineering.
131	Technical Volume	46/174		Control panel - LNG dispensing pump	Since this panel is located inside AC control room, the panels shall ne not NEMA4 but normal IP standard.	Noted. To be discussed during detailed engineering.
132	Technical Volume	52/174		GM modem	Since PLC is already provided, Modem is not required. Pls confirm	Tender Condition Prevails
133	Technical Volume	55/174	8	Term sheet- control room furniture	We request to remove this from our scope. It is better that customer select as per their choice.	Tender Condition Prevails
134	Technical Volume	SOR-Group A	1.1.7 and 1.1.8	No of pumps and vaporisers	It states 3 nos of HP pump each with flow rate of 1300-1400 scmh (as per page 30), but there are only 2 vaporisers with 8 hr duty. Pls confirm how pumps will be run/for how much hours. If duty cycle is beyond 8 hrs with 2 vaps, then 2 pumps can run only 8 hrs. If continuous duty required then only 1 pump will run ???	Please refer to SOR for Group A, Group B & Group C for major equipment quantity. For other details refer Technical Specifications & detailed scope of work.
135	Technical Volume	64/174	General	General	This is Annex 2, spec of pressure control valves, but suddenly some lines and pages related to PLC. Is this to be followed? Is this the PLC specification for this plant?	Bidder understanding is correct
136	Technical Volume	127/174	12	Odoriser storage tank size	Pls confirm 500 litre tank is acceptable as no size is specified here or anywhere in tender.	Please refer SOR for Odoriser Storage Tank Size

137	Technical Volume	55	15	Supervision of onsite EPC works	Bidder Will be responsible for supervision of LNG Station IEC mechanical items. CIVIL work supervision is excluded please confirm.	Civil work is excluded from the scope of the bidder. However bidder shall provide civil foundation drawings along with other related documents for LNG equipments and provide supervision whenever required.
138	Technical Volume			Spare parts for normal operation of 5 years	Is it to be supplied along with supply of equipments ?	Spare parts and consumables are part of CAMC for a period of 5 years.
139	Technical Volume	10	J	Liasoning with other authorities (army, police, pollution control board, electricity board, water supply authority etc.) DM office and all other local bodies, if required for construction, shall be in the scope of LNG package contractor.	Bidder has no control over local bodies and no expertise in handling local NOCs. We request IGL to exclude from the scope of bidder. We will assist in Technical Document requirement. Please confirm bidder scope is excluded	Obtaining PESO approval including necessary technical documentation will be in the scope of the bidder. However, bidder to provide technical assistance in obtaining all other statutory approvals including DM NOC etc.
140	Technical Volume	7	f	breakaway couplings	Breakaway coupling is not envisaged for this requirement. Please confirm its requirement.	Noted. To be discussed during detailed engineering.
141	Technical Volume	7	h	air receivers of minimum 200 water litre capacity or for at least 3 days storage in case of compressor failure whichever is higher	We request to confirm the size of receiver required. So that bidder can supply the size.	Bidder to supply air compressor with minimum 200 water litre capacity air receiver
142	Technical Volume	7	j	Electric heater	Since BOG vaporiser is part of the package, please confirm its requirement.	Bidder to supply electric heater if required with BOG management system.

143	Technical Volume	9	g	First fill of all lubricants, chemicals, consumables, filtration media, liquid nitrogen for commissioning.	Please confirm CAMC period does not cover the consumables like Oil/diesel/seals for the pump	CAMC period shall include all spares including consumables
144	Technical Volume	10	c	Participation in HAZOP study	Please confirm the scope of HAZOP.	Clause 4.2 (c) page 10 of 174 Technical Volume - II is self explanatory. Tender Conditions Prevails.
145	Technical Volume	12	b	Terminal point for water required for firefighting system shall be at the existing bore well	Please confirm that fire water tank is exluded.	Water Tanks are not in bidders scope
146	Technical Volume	21	1.3.2	The LNG satellite station shall have 2 Nos. of 56 KL gross capacities each vertical LNG storage tanks	Please confirm - This clause is applicable for which group ?	Please refer to SOR for Group A, Group B & Group C for major equipment quantity. For other details refer Technical Specifications & detailed scope of work. Tender Condition Prevails
147	Technical Volume	60		LIST OF SUPPLIERS OF MAJOR BOUGHT-OUT ITEMS	The bidder would like to propose their own make of reciprocating pumps with good PTR of PSUs. Attaching the PTR.	Please refer to Notes in list of suppliers of major bought items
148	Technical Volume	25	i	There shall be 2 nos. of centrifugal pumps (1working & 1standby).	GROUP C SOR says 1 Nos per station - Please clarify.	Tender Condition Prevails
149	Technical Volume	25	1.3.7	A3 colour laser printer	Please confirm A4 is acceptable.	Tender Condition Prevails
150	Technical Volume	29	1	Design and supply of LNG vacuum insulated storage tank/s (Size – 56 KL, MAWP – 12 Barg and Quantity – 2 Nos)	Kindly confirm the qty mentioned is for which Group ?	Please refer to SOR for Group A, Group B & Group C for major equipment quantity. For other details refer Technical Specifications & detailed scope of work.
151	Technical Volume	29	6	LP Line Flowmeter	Kindly Confirm the reqd qty is 2 Nos. for Calibration purpose ?	Query not clear. Tender Conditions Prevails

152	Technical Volume	30	10	Flow metering skid with Turbine type flow meter MP Line	Kindly Confirm the reqd qty is 2 Nos. for Calibration purpose ?	Query not clear. Tender Conditions Prevails
153	Technical Volume	31	17	with Swagelok make QC coupling	Please confirm Hylok make is acceptable.	Tender Condition Prevails
154	Technical Volume	33	6	Flow metering skid with RPD type flow meter	Kindly Confirm the reqd qty is 2 Nos. for Calibration purpose ?	Query not clear. Tender Conditions Prevails
155	Technical Volume	35	26	Bidder will have full responsibility of the supervision and project management for civil work.	Being OEM of Cryogenic Equipment, please excldue the CIVIL work supervision from our Scope as bidder has no experience in CIVIL work.	Civil work is excluded from the scope of the bidder. However bidder shall provide civil foundation drawings along with other related documents for LNG equipments and provide supervision whenever required.
156	Technical Volume	56	35	NOC from local authorities in the name of IGL for operation of the LNG facility	Bidder has no control over local bodies and no expertise in handling local NOCs. We request IGL to exclude from the scope of bidder. We will assist in Technical Document requirement. Please confirm bidder scope is excluded	Obtaining PESO approval including necessary technical documentation will be in the scope of the bidder. However, bidder to provide technical assistance in obtaining all other statutory approvals including DM NOC etc.
157	Technical Volume	108	4.12	Calibration of instrument during O&M period	Please confirm this is not applicable during CMC period.	Calibration will be in the scope of the bidder during commissioning and CAMC period of 5 years and valid calibration certificates to be submitted to IGL.
158	Technical Volume	168	5.21	W&M Stamping of LNG and CNG Dispenser	Please confirm stamping with local authories is excluded from the SOW.	Please refer clause no. 5.22 page 168 of 174 Tender Condition Prevails