

TENDER NO **GSL/REPL/011/LNG**

SUBJECT **DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING, AND 5 YEARS OF COMPREHENSIVE OPERATION & MAINTENANCE OF LNG STORAGE & REGASIFICATION STATION ALONG WITH ALL AUXILIARY UNITS AT BIKANER AND CHURU GA**

CORRIGENDUM NO **02** **DATED** **23-06-2023**

This has reference to the subject tender. The corrigendum to the subject tender is hereby issued. All participating bidders are requested to note the changes in respect of the subject tender.

S No	Tender Clause No	Page No.	Tender Conditions	Addition
1	Clause 2(F), IFB, Bid Due Date & Time	5	27th June, 2023 till 15:00 HRS IST. Bids should be submitted by email as per clause no. 8 of IFB	05th July, 2023 till 15:00 HRS IST. Bids should be submitted by email as per clause no. 8 of IFB
2	Clause 2(J), IFB, Technical Bid Opening Due Date	5	27 th June, 2023 till 15:30 HRS IST	05 th July, 2023 till 15:30 HRS IST
3	F-10 Forms & Format	114	Replies to Pre-Bid Queries	Additional bidder queries and their replies are attached as per Annexure-1

It is advised that the above may please be taken in consideration while submitting your offer. Please also note that this communication forms an integral part of the tender document and a duly acknowledged copy of the same is to be submitted along with technical bid.

All other terms and conditions of above referred tender remain un-altered.

Resonance Energy Pvt. Ltd.

GASONET SERVICE (RJ) LIMITED

ANNEXURE - 1

Tender No.: GSPL/REPL/011/LNG

Reply of Additional Pre Bid Queries

NAME OF WORK :- Design, Supply, Installation, Testing, Commissioning, and 5 years of Comprehensive operation & Maintenance of LNG Storage & Regasification station along with all necessary auxiliary units at Bikaner & Churu GA		Date / Time of Pre- Bid Meeting: 08/06/2023 , 15:00 HRS IST	
Sr. No.	Tender Clause No. / Annexures	Bidders Comments / Queries	REPL/Gasonet Reply
	Commercial Queries - Commercial Volume I of II		
1	COMPLETION PERIOD INFORMATION FOR BIDS (IFB) (SECTION I) , Page No. 4	<p>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:</p> <p>Supply of equipment: 7 months from the date of PO/LOA.</p> <p>Transit time, erection and installation of equipment is minimum 3 months from the site readiness.</p> <p>Considering the above, Job completion period shall be 10 months from PO/LOA instead of 06 months.</p> <p>Commissioning shall be within 30 days after approval from the PESO and other statutory authorities.</p> <p>Remarks: We have considered that submitted documents shall be reviewed and approved within 7 days by Owner</p>	Please refer Annexure-2 on Page No.4 of corrigendum-01.
2	BID VALIDITY INFORMATION FOR BIDS (IFB) (SECTION I) , Page No. 5	Bidder requests Owner / PMC to consider the bid validity of 60 days instead of 180 days from the bid due date.	Bid Validity is revised to 90 Days from the bid due date. Please refer to the corrigendum-01.
3	As per Clause 10 on Page No. 8&9 The bidder shall have designed, manufactured/assembled, supplied, installed, successfully commissioned cryogenic LNG storage tanks (at least one number of minimum capacity 56 KL) and regasification unit, in previous 7 years reckoned from bid due date.	<p>Considering the configuration of the LNG/LCNG station required for this tender, Bidder request Owner/PMC to consider Qualification Criteria as below:</p> <p>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.</p>	Tender Condition prevails.
		<p>Bidder requests Owner/PMC to consider the payment terms as below:</p> <p>A. For supply of equipment/material:-</p> <p>i) 20% payment against submission of mechanical and electrical drawings against submission of ABG of equivalent value.</p> <p>ii) 70% payment against receipt of materials at site.</p> <p>In case if dispatch clearance is not provided within 3 weeks from date of intimation of</p>	

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Sr. No.	Tender Clause No. / Annexures	Bidders Comments / Queries	REPL/Gasonet Reply
4	Clause No. 77 of Special Condition of Contract on Page No.98 PAYMENT TERMS	<p>readiness of equipment, then milestone payment shall be released immediately.</p> <p>iii) 5% payment against erection, installation and pre-commissioning of LCNG station.</p> <p>iv) 5% payment against Commissioning of LCNG station.</p> <p>For O&M, monthly billing shall be raised and invoices shall be processed and payment shall be made within 15 days of submission of documents.</p> <p>In case if site is not ready for installation and commissioning of equipment for reason not attributable to Bidder, then milestone payment A-iii & iv shall be released within 60 days from date of intimation of readiness of equipment.</p> <p>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.</p> <p># All the payment shall be made within 15 days from the date of Invoice.</p>	Please refer Annexure-1 on Page No.3 of Corrigendum-1.
5	Clause No. 77 of Special Condition of Contract on Page No.98 PAYMENT TERMS	<p>As per the current payment terms in the tender, it is understood that bidder will not be paid milestones C), D), E) & F) in case the erection, installation, pre-commissioning, commissioning and operation of the LCNG Station does not take place for any unforeseen reasons. Meaning that bidder has to recover his Total Supply part price from milestone A) & B) only. (through 10 % + 50 %) 60% value.</p> <p>Bidder requests Owner to confirm whether Bidder's understanding is correct.</p> <p>Further, there is no provision in the tender for bidder to be paid and compensated, in case there is delay in completion of the projects for reasons not attributed to bidders. Bidder requests Owner to make such provisions in the tender conditions.</p> <p>Bidder requests Owner to consider that in case if the material is ready for dispatch as per the stipulated time period of tender and if the site is not ready for the installation of equipment or any other reasons which is not attributable to Bidder i.e. non-availability of statutory approval, non-readiness of site, etc., A) 10% milestone payment against submission of approved drawing + B) 50% milestone payment against delivery of equipment at site + C) 10% milestone payment against Erection works + D) 10% milestone payment against testing and pre-commissioning of major equipment shall be released by Owner on submission of document evidence (Equipment readiness report). E) 10% milestone payment against commissioning + F) 10% milestone payment against completion of successful operation of 06 months shall be released within 15 days from the Contractual Delivery Date.</p> <p>For Operations & AMC, monthly billing shall be raised and invoices shall be processed and payment shall be made within 15 days of submission of documents.</p> <p>Bidder also requests Owner to confirm that full GST will be released on submission of GST invoice and not on pro-rata basis against milestone claims. It's Bidder's responsibility to collect GST from Consignee (Owner) and deposit / adjust the GST amount to exchequer.</p>	<p>The essence of this tender is to provide commissioned & running LCNG Plant. We are looking for supplier-partner having a vision of achieving the same. The Bidder with this vision will not think of recovering supply parts fully from milestone A & B. The revised payment terms are detailed in Annexure-1 on page no.3 of Corrigendum-01.</p>

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Sr. No.	Tender Clause No. / Annexures	Bidders Comments / Queries	REPL/Gasonet Reply
6	Clause No. 37.1 of IFB on Page No.30 Owner's right to vary quantities during Contract Period:	If the Techno-commercial bid is submitted and Owner / PMC requests an addition or deletion of scope of work, the Bidder shall be given the opportunity to revise their Techno-commercial bid since there could be variation in prices as well as delivery schedule depending upon variation of scope. Once the PO/ LOA/Notification of Award is issued to Bidder, any increase or decrease in the scope of work shall be discussed with the Bidder, and cost & time implication if any, shall be mutually agreed upon, since the prices submitted by the Bidder in the bid will be for the Scope of Work mentioned in the issued tender documents.	Tender Condition Prevails.
7	Clause No. 4.3.1 of IFB on Page No.7 Operation and Comprehensive Maintenance Portion:	Bidder understands that LCNG station requires an operation and maintenance service duration of 05 years (1st year during defect liability period and 04 years after defect liability period). Bidder requests Owner / PMC to clarify the cost of manpower, consumables and spares required during 1st year (Defect liability period) operation and maintenance service is in the scope of Bidder's or Owner's. Kindly clarify.	Please refer to Annexure-3 on Page No.5 of Corrigendum-01. Further, it is clarified that O&M Services for 5 (1+4) years is on Comprehensive basis inclusive of all manpower, consumables and spares etc. Bidder to quote accordingly.
8	Clause No. 4.3.1 of IFB on Page No.7 Manpower required for Operation & Maintenance Service:	Bidder requests Owner to clarify requirement of number of operators per shift as well as reliever philosophy for operators, requirement of site in-charge / any other additional manpower requirement. Bidder also requests Owner to mention requirement of minimum experience / qualification of manpower.	Please refer Annexure-3 on Page No.5 of corrigendum-01.
9	Clause No.31.2 of Special Condition of Contract on Page No.77&78 Schedule & Penalties during O&M Period	Mentioned Penalties is on higher side as per the CGD industries practice. Hence, Bidder requests Owner / PMC to consider the Penalties as Rs. 10,000 per day for the stoppage of gas supply.	Tender Condition Prevails with clarification that the monthly penalty will not exceed monthly billing amount and on annualized basis, it will not exceed 10% of the annual bill.
10	Clause No. 31.2 of Special Condition of Contract on Page No.77 Drawing Approvals	For shorter duration project, 15 days timeline is quite long for document approval. Hence, Bidder requests Owner / PMC to consider that approval on drawing shall be provide within 7 days from the date of submission.	Tender Condition Prevails.
11	Clause No. 25 of Special Condition of Contract on Page No.75 Location of Bidders storage Facility	Bidder requests Owner / PMC to consider the Storage and Preservation of equipment on site in Owner's scope, since site security is the responsibility of the Owner.	Tender Condition Prevails.
12	Clause No. 18 of General Contract Conditions on Page No.45 Contractor's Office and Store at Site:	Bidder requests Owner / PMC to confirm that sufficient covered area required for material storage on site will be provided by Owner / PMC free of cost during erection, installation, pre-commissioning and commissioning of LCNG station. Bidder will arrange accommodation of Engineer and staff in their own cost.	Tender Condition Prevails.
13	Clause No. 3 of Special Condition of Contract on Page No.69 Construction Water & Power	Bidder requests Owner / PMC to confirm that water and power will be provided by Owner / PMC free of cost during commissioning of LCNG station.	Tender Condition Prevails.
14	Clause No. 56.4 of Special Condition of Contract on Page No.88 Build temporary access roads	Bidder requests Owner / PMC to exclude the temporary access roads from the Bidder scope of supply since all civil related activities will be done by Owner / PMC.	Tender Condition Prevails.
15	Clause No. 58 of Special Condition of Contract on Page No.89 Air-conditioned room for the storage	Bidder requests Owner / PMC to exclude the Air conditioned room for the storage of the instruments from the Bidder scope of supply because this is not our core competence.	Tender Condition Prevails.

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Sr. No.	Tender Clause No. / Annexures	Bidders Comments / Queries	REPL/Gasonet Reply
16	Clause No. 26 of Special Conditions of Contract on Page No.75 Statutory Approvals	<p>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 Bidder's 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.</p> <p>Considering the same, Bidder hereby requests Owner to exclude all statutory approvals including local approval from Bidder's scope.</p> <p>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. Any delay for plot plan approval as well as licensing from PESO, Bidder shall not be responsible.</p> <p>We will consider technical assistance in design approvals/taking permissions from statutory authorities (PESO approvals & local DM approval etc.) in our scope.</p>	<p>The responsibility for PESO certification is with the contractor. All required drawings and designs for the same shall be in contractor's scope. However, applying for PESO clearance shall be from client side. All other statutory approval including DM NOC etc shall be in client's scope.</p>
17	Clause No. 71 of Special Conditions of Contract on Page No.93 Termination for Convenience	<p>Bidder requests Owner to consider following clause for "Termination for Convenience":</p> <p>PO/LOA once awarded shall not be cancelled unless and until Bidder is unable to perform its contract obligations solely attributable to Bidder. In case of termination for the reasons not attributable to Bidder, Owner shall be liable to make full payment of Contract Value along with Taxes & duties.</p>	<p>Please refer to Clause No.71 (b) and (c) for protection to contractor. Tender Condition Prevails.</p>
18	Clause No. 60 of Special Conditions of Contract on Page No.61 Indemnity	<p>Bidder requests Owner / PMC to consider the Indemnification clause, applicable to both the Owner and the Bidder.</p>	<p>Tender Condition Prevails.</p>
19	General, Sub-Vendor List	<p>Bidder requests Owner / PMC to provide Sub-Vendor list for LNG storage tanks, Vaporisers, pumps and other major equipment.</p>	<p>Please refer List of Vendors and vendor approval procedure in Technical Volume II of II from Page No. 43-46</p>
20	Clause No. 31 of Special Conditions of Contract on Page No.77 Price Reduction Schedule (PRS) for Delayed delivery	<p>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 delay of project is due to any statutory approval.</p> <p>Also, LD charges shall be applicable to the non-delivered portion only and not on the complete contract value.</p>	<p>Tender Condition Prevails.</p>
21	Clause No. 63.4 of General Contract Conditions on Page No.45 Force Majeure	<p>Bidder requests Owner to consider the Force Majeure occurrence notice period as 14 days instead of 48 hours since even sub-vendors and other supply chain including foreign vendors would require time to communicate in case of such eventuality. 48 hours is too short to practically implement Standard industry practice is 14 days. Hence we require 14 days.</p>	<p>Tender Condition Prevails.</p>
22	Clause No. 44 of General Contract Conditions on Page No.55 Suspension of Works	<p>In case, if Owner / PMC wants to suspend the contract, then relaxation shall be given upto 30 Days. If suspension exceed more than 30 days in total during the execution of contract due to reasons not attributed to Bidder, then Owner / PMC shall pay all the losses incurred because of suspension to Bidder at actual.</p> <p>Further, occurrence of suspension more than once during the contract is not acceptable. Time extension shall also be granted to Bidder by Owner.</p>	<p>Tender Condition Prevails.</p>

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Sr. No.	Tender Clause No. / Annexures	Bidders Comments / Queries	REPL/Gasonet Reply
Technical Queries - Technical Voulme II of II			
1	CLAUSE- 1.3.1 on Page No.3&4 LNG Unloading Pump: The unloading skid shall have automatic PLC based control system.	Bidder understands that Pump operation controlled by PLC and all instruments etc. shall be connected to PLC; however, actual valve operation in unloading pump skid is manual as per prevailing practice. Kindly confirm.	Bidder understanding is correct.
2	CLAUSE- 1.3.2 on Page No.4 LNG Storage Tanks: The LNG storage tank shall be designed for a design temperature of -196°C to +49°C	Bidder requests Owner / PMC to allow design temperature of tank as -196°C to +40°C with +50°C design validation during detail engineering stage.	Tender Condition Prevails.
3	CLAUSE- 1.3.2 on Page No.4 LNG Storage Tanks:LNG storage tank shall have thermosiphon arrangement and shall have temperature sensors, pressure detection, level measurement etc.....	1) It is not possible to provide Temperature sensor on the LNG storage tanks, due to the complicated construction of the double wall vessel. 2) Radiography shall be as per code. 100% for Long seams & T Joints and 25% for circumferential joints. 3) 10% RT for site joints. For interspace piping 100% RT shall be carried out. Kindly confirm	Please refer to SR. No. 2 of technical queries of Corrigendum-01 for the clarification.

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Sr. No.	Tender Clause No. / Annexures	Bidders Comments / Queries	REPL/Gasonet Reply
4	CLAUSE- 1.3.3 (ii) on Page No.6, Second Para Re-gasified natural gas shall be passed through pressure regulator skid which is equipped with twin stream pressure regulators and flow meters in each stream to get natural gas at 33 – 38 bar (g) pressure without any interruption	PMP Regasification system flow and pressure control is normally done through MP transfer Pump with automatic Vaporizer changeover skid and same philosophy is followed in the industry. Hence, there is no such requirement of pressure regulating system. Kindly confirm.	Tender Condition Prevails.
5	CLAUSE- 1.3.4 (i) on Page No.6 Re-gasified natural gas shall be passed through pressure regulator skid which is equipped with twin stream pressure regulators to get natural gas at 4 – 7 bar (g) pressure without any interruption	Usually storage tank will operate at 3 to 4 Barg and BOG regulator will release pressure at 7 to 8 Barg. Hence, to achieve battery limit pressure at 4 to 7 Barg, pressure regulating skid is not required. Please advise BOG end use application or any specific pressure requirement.	The BOG from the tank through the vapourizer will be variable volume depending upon weather conditions and alleg in the tank. This BOG volume will contribute to LP gas after a Tee connection with PRS from MP stream. The pressure of LP stream will be designed for 4-7 bar. As such, Bidder to provide BOGV as per their standard design. Owner needs a tapping from MP line, controllable for a 4/7 bar pressure in LP line in which this BOGV line shall be connected. LPRS design capacity shall be 500 SCMH and BOG capacity will not make much change (being in the range of 100-150 SCMH only).
6	Clause No.1.3.5 on Page No. 6&7 HIGH PRESSURE LCNG SYSTEM The above figure showsschematic for high pressure LCNG system wherein a LNG tank is connected with high pressure reciprocating pump which can pump LNG liquid to high pressure ambient air vaporizer for high pressure re-gasification LCNG application. The system shall be designed for CNG cylinder cascade filling at minimum 220 Bar (g). The CNG shall be odorized with an odorant consisting of 70-80% TBM + 20-30% MES as per requirements of PNGRB codes.	Bidder is proposing to provide 16 hours duty cycle with 8 hours defrosting time which is manual operation. This is the normal working philosophy in all LCNG stations. Automatic operated valve at such a high pressure stream is very rare in the market and its performance is also unreliable. Kindly confirm.	Tender Condition Prevails.
7	Clause No.1.3.8 on Page No. 8 Interconnecting Piping, Fittings, Valves: The interconnecting pipes shall be double-walled vacuum jacketed. Piping, fittings, valves used shall be fit for LNG service.	Bidder shall provide all interconnecting piping and other skid piping with Cold insulation or Personal protection. Kindly confirm.	For unloading System, piping to be double walled vacuum jacketed and for other piping, appropriate insulation as per vendor design will be acceptable.
8	CLAUSE- 1.3.2 on Page No.4 LNG Storage Tanks: Further, a separate and independent level indicator shall be used for ESD purpose.	Bidder has considered a separate level switch with indicator instead of Level indicator for ESD purpose. Kindly confirm.	Noted.
9	General , Site Lighting	Bidder understands that there is no requirement of site lighting in the scope of work.	Bidder understanding is correct.
10	Clause No. 1.1 on Page No.3 Zero LNG Boil-off even under no consumption condition	Zero boil off is not possible due to nature of the liquid. The tank shall have evaporation loss in case of no usage for longer duration. NER will be minimum 0.15% per day at STP Condition at Net capacity. Kindly confirm.	Bidder understanding is correct.
11	Clause No- 1.2 on Page No.3 MAJOR APPLICABLE CODES	Bidder understands that Major applicable codes are provided as a guideline or for reference; and compliance shall be as applicable in India i.e. Bidder has considered only latest edition of, PNGRG-T4S for PRS/DRS System. EN13458-2 for Storage Tank Regulation: as per Static and Mobile Pressure Vessel (SMPV)/PESO Rules (Unfired). Bidder understands that all other regulations may not be applicable.	Noted.
12	Clause No- 1.3.6 on Page No.8 , Third Para CENTRALIZED CONTROL & MONITORING SYSTEM	Bidder requests Owner / PMC to provide Hazardous area classification drawing for selection of instruments based on area classification.	Please refer Clause No.4.0 on Page No.125 & 126 for the clarification.
13	Clause No- 1.3.7 on Page No.8 , Third Para Safety Systems	Bidder requests Owner / PMC to clarify separate safety PLC is required for Fire and Gas. Kindly clarify.	Bidder understanding is correct.
14	Sr. No. 6 of TECHNICAL SPECIFICATION FOR SELF ACTUATED PRESSURE CONTROL VALVES AND SLAM SHUT VALVES on Page No.49 Leakage class for pressure control valve & slum-shut valve shall be class-VI as per ANSI B16.10	Bidder requests Owner to Consider FCI 70-2 code instead of ANSI B16.10 for leakage class for pressure control valve & slum shut valve. Kindly confirm	Noted and Accepted.

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15	Sr. No. 8 of Term sheet on Page No.40 Annexure-1	Bidder has considered UPS for PLC Processor Program Back up only not for the operation of field solenoid or other devices or any other purpose. Kindly confirm.	Confirmed.
16	Sr. No. 2 of Field Mounted Flow Computer on Page No.34 Function	Bidder requests Owner / PMC to consider chromatography for calculating Gas calorific value. Kindly Confirm.	Tender Condition Prevails.
17	Detailed Scope of Work: Sl. No. 9 on Page No. 11 1 No of PNGRB compliant Pressure reduction system for delivery of PNG up to 2500 SCMh flow and pressure of 4 bar(g) PRS size	As per detailed scope of work, Owner/PMC mentioned flow rate of PNG up to 2500 SCMh is very high as compared to BOG generation. Bidder requests Owner/PMC to confirm BOG/PNG flow rate. According to flow rate we need to consider the system	The BOG from the tank through the vapourizer will be variable volume depending upon weather conditions and alleg in the tank. This BOG volume will contribute to LP gas after a Tee connection with PRS from MP stream. The pressure of LP stream will be designed for 4-7 bar. As such, Bidder to provide BOGV as per their standard design. Owner needs a tapping from MP line, controllable for a 4/7 bar pressure in LP line in which this BOGV line shall be connected. LPRS design capacity shall be 500 SCMh and BOG capacity will not make much change (being in the range of 100-150 SCMh only).
18	Detailed Scope of Work: Sl. No. 38 on Page No. 13 Detailed engineering and civil drawing, layouts to be provided by the bidder to GSL for carrying out the civil work as per the requirement. Bidder will have responsibility of the overseeing the construction of civil work supervision so to avoid mismatching with bidder requirement	Bidder understands that all civil related activities including civil design and Construction drawings will be done by Owner. Kindly confirm.	Tender Condition Prevails.
19	DATA SHEET FOR LIQUID STORAGE TANK on Page No. 16		
20	Quantity of storage tank: 1 no.	Bidder has considered 2 Nos. 56KL capacity storage tank in their scope of work as per detailed scope of work of tender. Kindly confirm.	Confirmed.
21	DATA SHEET FOR MP & HP VAPOURIZER - Inlet & Outlet Connection on Page No.18&20	Bidder has considered inlet/outlet connection as flanged connection as per ASME B16.5 of ambient air vaporizer. Kindly confirm.	Confirmed.