



INDRAPRASTHA GAS LIMITED
IGL Bhawan, 4, Community Center,
Sector 9, R.K.Puram, New Delhi-110022
Email: mohit.gupta@igl.co.in/ sweeti.kumari@igl.co.in

REPLY TO PRE-BID QUERIES

SUPPLY, INSTALLATION, TESTING, COMMISSIONING, OPERATION AND COMPREHENSIVE MAINTENANCE OF 1200 SCMH GAS ENGINE DRIVEN CNG COMPRESSOR PACKAGES

Tender No IGL/ET2/CP/CC18986

Sl. No.	Volume/ Section/ Clause No.	Page No.	Clause No.	Clause	Bidder's Query	IGL Reply
1	Commercial Volume I (IFB)	7	3.2	a. Supply: The material is to be delivered in lots as per IGL requirement. 1st lot of 7 nos. is to be delivered at IGL site/ stores within 16 weeks & subsequent lots is to be delivered at IGL site/ stores within 14 weeks from the date of purchase order. Time period between subsequent lots shall be minimum 15 days.	Delivery of critical components such as Gas Engine, Motor, PLC Panels, Flow Meters etc is currently between 18-20 weeks ex-works. We request the purchaser to revise the delivery schedule as 1st Lot of 07 nos within 18 Weeks from the date of issuance of LOA/ Notification of Award (Upto max qty of 07 nos.) and subsequent Lot within 16 Weeks from the date of issuance of LOA/Notification of Award. Kindly accord your acceptance.	Tender Condition prevails
2	Commercial Volume I (IFB)	16	11	11.1 All bids must be accompanied by a bid security of amount of Rs. 20,00,000/- (Rupees Twenty Lakh only). 11.2 Bid security/EMD against e-tender can be submitted either through online e-payment mode available on e tender portal or in the form of Letter of Credit / Demand Draft / Banker's Cheque in favour of Indraprastha Gas Ltd, payable at Delhi or in the form of Bank Guarantee from any Nationalized/ Scheduled Indian Bank or by the branch of a reputable international bank located in India, as per proforma attached in the Tender document. Bid security in the form of Bank Guarantee shall be valid for sixty (60) days beyond the validity of the bid i.e. 150 days from scheduled date of bid submission.	We request the purchaser to allow the Bid Security/ EMD in the form of Insurance Surety Bond in favour of Indraprastha Gas Ltd.	Tender Condition prevails
3	Commercial Volume I (SCC)	65-66	8.0	8.0 CONTRACT PERFORMANCE BANK GUARANTEE (CPBG) (FURTHER TO CORRESPONDING CLAUSE OF GCC) 8.1 Within 21 Days of receipt of the respective Contract/Purchase Order, the successful bidder shall furnish to the Purchaser the Contract-Cum-Equipment Performance Bank Guarantee (CPBG) equivalent to 2.5% of annualized contract value to be submitted against awarded Contract and @2.5% of total order value of individual release/purchase order to be submitted against purchase order inclusive of GST. If the material supplied by contractor does not meet the guaranteed parameters and other requirement as per technical specification of contract consistently during operation at site, IGL will revoke the Contract Cum Equipment Bank Guarantee, at its sole discretion. The CPBG on a non-judicial stamp paper as per the pro forma enclosed of appropriate value in the form of DD or BG from Nationalized/Scheduled bank shall be valid for 90 days beyond the expiry of guarantee / warranty period / defect liability period. The claim period of CPBG shall be 01 month beyond the expiry date of BG validity. The CPBG shall be refunded after successful completion of the contract and after adjustment of any and all dues of the IGL which may arise during the execution of the contract and a confirmation that contractor has cleared all its dues pertaining to the contract and all liabilities etc., in addition indemnifying IGL against any future claims, if any.	We request the purchaser to accept the Contract Performance Bank Guarantee (CPBG) in the form of Insurance Surety Bond in favour of Indraprastha Gas Ltd.	Tender Condition prevails
4	Commercial Volume I (SCC)	68	13.1	13.1 Payment towards supply (Compressor Package) Through direct payment within 45 days from date of receipt of invoice. i) 90% (Eighty Percent) Payment shall be released against receipt of materials at site on submission of dispatch documents, manufacturer's certificates, invoice, packing list, insurance policy, guarantee/warranty certificate, inspection release note, Goods Receipt Voucher (GRV) & dispatch clearance issued by the Owner. ii) 10% (Ten Percent) Payment shall be released after successful completion of installation, Testing and Commissioning of each compressor package at the site & acceptance thereof by the OWNER and after successful Performance Acceptance Test at site and acceptance by owner for each compressor.	We understand that the applicable payment terms for Supply are 90% (Ninety Percent) + 10% (Ten Percent). Please confirm whether our understanding is correct. We further request Purchaser to consider payment towards Supply (Compressor Package) within 30 days from date of receipt of invoice	Bidder understanding is correct Tender conditions shall prevail
5	Commercial Volume I (SOR)	88	NOTE. 11	The Bidder shall be responsible for necessary contributions towards PF, Family Pension, ESIC, Bonus etc. or any other statutory payments to Government Agencies as applicable under the laws. Minimum wage components (Basic+VDA, EPF, EDLI, Medical insurance, Leave, Bonus etc.) for semi-skilled labour per day shall be payable to workmen engaged for operations on actual basis.	In reference to Gazette of India dated 30.12.2025, the gratuity is payable from first year itself. We request purchaser to kindly re-imburse the additional cost of gratuity payable in addition of Minimum wage components (Basic+VDA, EPF, EDLI, Medical insurance, Leave, Bonus)	Tender conditions shall prevail
6	Commercial Volume I (IFB)	7	3.2	The material is to be delivered in lots as per IGL requirement. 1st lot of 7 nos. is to be delivered at IGL site/ stores within 16 weeks & subsequent lots is to be delivered at IGL site/ stores within 14 weeks from the date of purchase order. Time period between subsequent lots shall be minimum 15 days.	The major suppliers viz. Gas Engine are delivering in 4 months time. This had led to longer lead times of such equipment. We request you to please revise the delivery schedule as per below 1) 1st Lot : within 20 weeks from the date of Delivery Order / Release Order 2) subsequent lots : within 16 weeks from the date of Delivery Order / Release Order.	Tender Condition shall Prevail
7	Commercial Volume I (GCC)	45	29	PRICE REDUCTION SCHEDULE (PRS)	We request you to modify the clause as "@½% of the total order value (incl. taxes) per week of delay or part thereof in supply/completion of work subject to a maximum (ceiling) of 5% of total order value (incl. taxes) for orders of goods, works and service contracts."	Tender conditions shall prevail



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8	Commercial Volume I (SCC)	68	11.5	For Comprehensive maintenance services: To derive rate for 2nd to 10th year, 10% escalation Year on Year basis on quoted rate of 1st Year shall be considered. For Operations: To derive rate for sixth and subsequent years (6th to 10th year), 10% annual escalation Year on Year basis on derived rate (excluding wage components, variation of which is payable on actual basis) of 5th Year shall be considered. It will be responsibility of bidder to ensure the payment of minimum wages of Centre/ state whichever is higher to workmen engaged for operations. For Operations: To derive rate for sixth and subsequent years (6th to 10th year), 10% annual escalation Year on Year basis on derived rate (excluding wage components, variation of which is payable on actual basis) of 5th Year shall be considered. It will be responsibility of bidder to ensure the payment of minimum wages of Centre/ state whichever is higher to workmen engaged for operations.	We would like to inform you that due to uncertainties of the wages, steel price etc we will not be able to predict exact variation. Also, we cannot load more than 10% due to higher cap in the maintenace. Hence, we requested 10% escalation factor upto 5th year & the rates from 6th to 10th year will be decided and mutually agreed before the closure of 5th year.. Kindly confirm your acceptance of this structure.	Tender Condition shall Prevail
9	Commercial Volume I			GA wise location.	We intend to have site locations or GA wise locations in order to prepare for operation & maintenance charges . Please confirm the quantity GA wise. Also Specify wages to be considered for operation . state or central ?	Tentative locations are mentioned in Material Requisition in Technical Volume (Volume II / II of Tender Documents). However, exact locations will be mapped in individual purchase orders. IGL defined wages in SOR shall be payable
10	Technical Volume II	12	1.6	Separate flameproof junction boxes for different type of signals like analog, digital signals, alarm, shutdowns, and thermocouples, RTDs etc. for interfacing to FLP local panel. Same is not applicable for direct run cable up to PLC panel.	Please note that Local control panel (With PLC) is mounted on package itself hence junction boxes are not required. Instruments will be directly wired to Local control panel. This system is available in all our packages and accepted by al the CGD companies and 400+ CNG compressor are running successfully.	Tender Condition shall Prevail
11	Technical Volume II	12	1.6	Inlet twin suction gas filter / Duplex suction filter of filtration level upto 5 micron with oil drain valve, differential pressure gauge and temporary suction line strainer at the package inlet and at other stage (if required). A conical/ Y-type strainer for filtration level upto 50 micron shall be installed in the inlet pipe after the isolation valve by the contractor at the battery limit.	Please note that Duplex suction gas filter & basket strainer is provided and placed outside the compressor enclosure	Tender Condition shall Prevail
12	Technical Volume II	13	Clause no. 1.6	Separator/ Knockout drums/volume bottles with drains operated by solenoid valves, as required. Bypass valves for automatic drain system with manual drain shall be as per manufacturer's recommendation and proprietary design. All drain lines shall be provided with level operated / time based auto drain valves and NRVs. Test certificates for coalescent filters to be submitted.	The proposed CNG package has suction volume bottle at each stage and discharge volume bottle at final stage discharge only. The volume bottles at suction are connected to condensate drain system through auto-drain & Manual drain system. These volume bottles shall act as scrubbers/ condensate removal system. No separate KODs shall be supplied. Isolation valve is mounted in upstream of auto drain valve. This is our standard design offered in all our CNG packages. Please confirm your acceptance.	Tender Condition shall Prevail
13	Technical Volume II	13	1.6	Block and bleed valves to be provided for Pressure gauges (including DPG) and pressure Transmitters.	Please note that As per our standard Manufacturer Practice we provide Needle valves for Pressure gauges and pressure Transmitters.	Tender Condition shall Prevail
14	Technical Volume II	17	1.6 Safety	Relief Valves shall be provided at suction and discharge and in between inter stages of compressor with setting as per cl. 11.18.5 of ISO 13631: 2009 with R.V. venting as per cl. 11.18.6 of ISO 13631: 2009. All vented lines to be connected to common relief valve header.	Please note that as per Manufacturer's standard practice, Relief valve will be provided on BDV and each stage discharge. Please confirm your acceptance.	Noted. Rest Tender Condition Shall Prevail
15	Technical Volume II	19	2.1.1	Bidder shall make his own provision for Instrument air with the flame proof electric motor driven air compressor, receiver and refrigerant type air dryer system	Please note, flameproof refrigerant type air dryer is not available. Only motor shall be flame proof.	Tender Condition Shall Prevail
16	Technical Volume II	19	2.1.2	The air compressor motor& air dryer shall be flameproof and will be kept in CNG area	In case of requirement of flame proof air dryer, we can provide heatless	
17	Technical Volume II	23	4.8.2	Gas sections of coolers shall be designed as per API-11P requirements and shall be inspected by any approved 3rd party inspection agency.	As per manufacturer standard ,Gas sections of coolers shall not be U code stamping. Please confirm your acceptance.	Tender Condition shall Prevail
18	Technical Volume II	23	4.8.2	Bidder shall submit cooler sizing calculation for review/ records.	Please Note The cooler sizing calculations cannot be submitted, being a proprietary design	Tender Condition shall Prevail
19	Technical Volume II	23	4.8.2	Cooler design shall be on the basis of 20% excess capacity than required corresponding to suction pressure of 19 kg/cm2	We shall design the interstage and final stage discharge cooler for outlet temperature of 60degC. considering ambient temperature of 50degC. The cooler design shall be on the basis of 20% safety based on thermal duty at design suction pressure condition and the suitability of this area shall be checked for the most severe condition corresponding to suction pressure. This is our standard design practice and we follow this for all our CNG packages. Kindly confirm your acceptance.	Tender Condition shall Prevail



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20	Technical Volume II	24	4.9.6	One vent line from gas recovery vessel with double isolation valves shall be provided	Please note that we provide both automatic drain system & manual valve but for manual valve we provide single isolation valve instead of double isolation valve(ball valve type). Please confirm your acceptance	Tender Condition shall Prevail
21	Technical Volume II	24	4.9.8	Oil recovery pot of suitable capacity shall be provided with double isolation manual valve and level gauge.	As per our standard design, We have provided single isolation valve at the drain line of oil recovery pot/vessel. Please confirm your Acceptance	Tender Condition shall Prevail
22	Technical Volume II	24	4.10	Pulsation, Vibration Control and Analog Study	Please note that Pulsation suppressor devices for CNG compressors are standardized in design. Order specific pulsation study is not carried out.	Noted. Rest Tender Condition Shall Prevail
23	Technical Volume II	25	4.12	The maximum allowed temperature within the enclosure shall be 5°C above ambient temperature.	Please accept the maximum allowed temperature within the enclosure to 10 degrees, same is accepted by CGD companies	Tender Condition shall Prevail
24	Technical Volume II	25	4.12.2	Bidders to provide ventilation / exhaust fans to vent out any entrapped gases in the enclosure before starting the main compressor. Necessary interlocking to be provided by the bidder for the same	Please note, as the cooler is of forced draft, the entrapped gases in the enclosure will be Vent out before starting the main compressor. Hence, ventilation fan is not envisaged.	Tender Condition shall Prevail
25	Technical Volume II	26	4.12.6	The enclosures shall have doors for normal access and removable wall panels for ease of maintenance of all the components	The enclosure shall have hinged doors instead of removable panels. Please confirm your acceptance.	Noted. However, proper space and access for the maintenance of all the components shall be ensured
26	Technical Volume II	26	4.12.8	All local pressure and temperature gauges shall have minimum dial size of 63 mm.	Please note that, as per our standard, we have provided All local pressure and temperature gauges with 100 mm dial gauge size. This is our standard supply and accepted by all CGD companies and we have supplied 400+ packages.	Noted
27	Technical Volume II	34	7.3.4	Penalty for Non-Performance during Period of Operation & Maintenance	Please note In any case/ any situation, total penalty will be limited to 50% of monthly invoice value of concerned package including all penalty clauses i.e Clause 7.3.1 Penalty towards Excess Package Gas Loss, Clause 7.3.2 Penalty towards Excess Engine Fuel Consumption, Clause 7.3.3 Penalty towards Package Efficiency Loss and Clause 7.3.4 Penalty for Non-Performance during Period of Operation & Maintenance. Request you to include this clause to enable us to participate in the tender.	Tender Condition shall Prevail
28	Technical Volume II	48 & 49	14.1/ 14.2/ 14.3	Parameters at Suction pressure of 14 Kg/ Cm ² (g); Compressor Capacity by Bidder: Net CV of gas considered in Kcal/Sm ³ : 8300 NCV (Kcal/Sm ³) = 8409.38	Kindly confirm the Calorific Value (Two different values mentioned in the tender)	Noted. Wherever NCV 8300 is mentioned Please read as 8409.38
29	Technical Volume II	67	192 of 18.1	ACOUSTIC ENCLOSURE WITH FORCED VENTILATION FAN	Please note, as the cooler is of forced draft, the entrapped gases in the enclosure will be Vent out before starting the main compressor. Hence, ventilation fan is not envisaged.	Tender Condition shall Prevail
30	Technical Volume II	77	22	PREFERRED MAKES	Kindly Approve the following 1) PLC: Schneider 2) IR Gas Detector: Pollution Protection Systems Mumbai Pvt.Ltd 3) UV Flame detectors: Pollution Protection Systems Mumbai Pvt.Ltd 4) Pressure Gauges & Temperatures Gauges: Thermal Instrument 5) SS Tubes for CNG application: JINDAL SAW LTD 6) SS tube Fittings: ASTEC, Fluid Control, Dawsons 7) Cables: Thermocable, Suyog Cables 8) Suction And Discharge Filter: KPCL 9) Variable Frequency drive (VFD): Rockwell 10) ON OFF BALL/NEEDLE VALVE: Intervolve 11) Air compressor: KPCL, BAC, FRANK	Please refer Note-1 of Point No. 22.0 Rest tender conditions shall prevail
31	Commercial Volume I (IFB)	7	3.2	The material is to be delivered in lots as per IGL requirement. 1st lot of 7 nos. is to be delivered at IGL site/ stores within 16 weeks & subsequent lots is to be delivered at IGL site/ stores within 14 weeks from the date of purchase order. Time period between subsequent lots shall be minimum 15 days.	Bidder request to consider delivery schedule of 16 weeks from the date of drawings approval by IGL.	Tender Condition shall Prevail
32	Technical Volume II	78	22.0	Preferred makes SS tube Fittings/ On Off SS ball/ needle/ non-return valve for CNG application	Kindly Approve: M/s. Dawson	



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33	Technical Volume II	78	22.0	Preferred makes Pressure Transmitter	Kindly Approve: M/s.Huba Control	Please refer Note-1 of Point No. 22.0 Rest tender conditions shall prevail
34	Technical Volume II	78	22.0	Preferred Makes: IR Gas Detectors	Kindly Approve: M/s. Ambetronics	
35	Technical Volume II	78	22.0	Preferred Makes: UV Flame Detectors	Kindly Approve: M/s. Ambetronics	
36	Technical Volume II	79	22.0	Preferred Makes: Suction and Discharge filter	Kindly Approve: M/S. Delta filters and seperators Pvt. Ltd.	
37	Technical Volume II	78	22.0	Preferred Makes: On Off ball/ needle valve for CNG application	Kindly Approve: M/s. Dawson	
38	Technical Volume II	79	22.0	Air/Heat Exchanger	Kindly Approve: OEM Standard	
39	Technical Volume II	78	22.0	SS Tubes for CNG application	Kindly Approve: M/S Jindal saw.	
40	Technical Volume II	80	22.0	Two Way/ Three way Ball valve	Kindly Approve: M/s. Dawson	
41	Technical Volume II	77	22.0	PLC	Kindly Approve: M/s.Schnieder	
42	Commercial Volume I (IFB)	7	3.20	Supply : The material is to be delivered in lots as per IGL requirement. 1st lot of 7 nos. is to be delivered at IGL site/ stores within 16 weeks & subsequent lots is to be delivered at IGL site/ stores within 14 weeks from the date of purchase order. Time period between subsequent lots shall be minimum 15 days.	Current delivery period of Gas Engine is 14 weeks. Considering the long lead time of Engine, we request you to please consider the delivery for First lot as 18 weeks and for further lots 16 weeks from date of PO release.	Tender Condition shall Prevail
43	Commercial Volume I (IFB)	7	3.10	Operation and Comprehensive Maintenance of 1st year during warranty period, further extendable for 9 years from 2nd to 10th year.	We request IGL to reconsider the proposed contract tenure and reduce the Operation & Maintenance (O&M) contract period from 10 years to 5 years. A 10-year contract involves significant commercial uncertainties that cannot be accurately assessed at the bidding stage. Over such a long duration, costs related to statutory wages, labor, spare parts, consumables, logistics, transportation, inflation, and supply chain disruptions may vary substantially. A 5-year contract tenure would enable competitive pricing and ensure sustainable service delivery. We therefore request IGL to consider revising the O&M contract period from 10 years to 5 years.	Tender Condition shall Prevail
44	Commercial Volume I (IFB)	8	3.70	For Installation, Testing and Commissioning (ITC) & Field Performance Test, service charges shall be minimum 01% of supply cost of Compressor package.	Agreed, But in case sufficient load is not available at site for conducting the Field Performance Test, or the delay in conducting the FPT is not attributable to the vendor, we request that the payment towards Installation, Testing & Commissioning and Field Performance Test charges be released after two (02) months from the date of Commercial Operation of the compressor This will ensure timely payment to the vendor where the completion of FPT is delayed due to reasons beyond the vendor's control.	Tender Condition shall Prevail



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45	Commercial Volume I (IFB)	8	3.10	For Operation Charges of 1st Year, Bidder has to quote only additional charges per-shift (which shall include but not limited to – Uniform charges, conveyance, PPE, Mobile, ID card & Profit of margin of bidder etc.) over and above offered IGL operation charges. For Delhi & Haryana: IGL offered operation charges per shift includes minimum wage components (Basic+VDA, EPF, EDLI, Medical insurance, Leave, Bonus etc.). For UP and Rajasthan: IGL offered operation charges per shift includes minimum wage components (Basic+VDA, EPF, EDLI, Medical insurance, Leave, Bonus etc.) plus Special Allowance. In the event that the minimum wages in Uttar Pradesh and Rajasthan increase by a higher amount than those in Haryana, the Special Allowance applicable to these states shall be adjusted against the increase in minimum wages so as to maintain uniformity in the overall wage structure across all three states (Haryana, UP & Rajasthan). The Bidder shall be responsible for necessary contributions towards PF, Family Pension, ESIC, Bonus etc. or any other statutory payments to Government Agencies as applicable under the laws. Minimum wage components (Basic+VDA, EPF, EDLI, Medical insurance, Leave, Bonus etc.) for semi-skilled labour per day shall be payable to workmen engaged for operations on actual basis	Operation charges should be clearly defined in the Tender/SOR to ensure compliance with all applicable statutory requirements, including Minimum Wages, EPF, ESI, Bonus, Insurance, Leave provisions, gratuity and other labour law obligations. The rates offered by IGL towards operation charges should specifically identify the statutory components and the bidder's scope of responsibility. Further, any additional statutory compliance requirements, revisions in statutory liabilities, or changes introduced by the Central Government, State Government, or any regulatory authority during the contract period, which are not covered under the quoted operation charges, should be reimbursed by IGL. Additionally, in the event of any abnormal increase in minimum wages or other statutory cost components beyond 5% in a year, the operation charges should be reviewed jointly and revised through mutual discussion to ensure continued statutory compliance and sustainability of operations throughout the contract period.	Tender Condition shall prevail
46	Commercial Volume I (IFB)	8	3.11	Further, after expiry of 1st year Operations and Comprehensive Maintenance period (during warranty), IGL reserves the right to extend the contract and separate work order on OEM basis for each year will be awarded for the services of Operations & Comprehensive Maintenance for the period of 2nd to 10th Year (9 years) after approval from competent authority. For Operations: To derive additional charges (excluding wage components, variation of which is payable on actual basis) for Operation from 2nd to 5th Year, 5% escalation Year on Year basis shall be considered on quoted/ negotiated rates of 1st Year. To derive rate for sixth and subsequent years (6th to 10th year), 10% annual escalation Year on Year basis on derived rate (excluding wage components, variation of which is payable on actual basis) of 5th Year shall be considered. It will be responsibility of bidder to ensure the payment of defined minimum wages to workmen engaged for operations. For Comprehensive maintenance services: To derive rate for 2nd to 10th year, 10% escalation Year on Year basis on quoted rate of 1st Year shall be considered.	We request IGL to reconsider the proposed contract tenure and reduce the Operation & Maintenance (O&M) contract period from 10 years to 5 years. A 10-year contract involves significant commercial uncertainties that cannot be accurately assessed at the bidding stage. Over such a long duration, costs related to statutory wages, labor, spare parts, consumables, logistics, transportation, inflation, and supply chain disruptions may vary substantially. A 5-year contract tenure would enable competitive pricing and ensure sustainable service delivery. We therefore request IGL to consider revising the O&M contract period from 10 years to 5 years	Tender Condition shall Prevail
47	Commercial Volume I (IFB)	10	7.1	Technical BEC: b. The bidder shall have engineered, manufactured/ packaged, tested and supplied to customer(s) at least 04 nos. of CNG Gas Engine Driven compressor packages of 1200 SCMH or higher capacity, with discharge pressure of 250 kg/cm ² , from the proposed facility of manufacturing/ packaging in a single order in the previous seven (07) years reckoned from the tender issue/publish date. c. At least 01 No. of the above mentioned compressor packages should have been operating satisfactorily in the field for a period of minimum 4000 running hours (in last 07 years) reckoned from the tender issue/publish date.	b. Since the total project volume for this tender is quite large at 28 nos., we kindly request increasing this qualification threshold to 07 nos. to ensure that only bidders with robust, high-volume execution experience are shortlisted. c. we kindly request increasing the requirement to at least 05 nos. of compressor packages operating satisfactorily for a minimum of 8,000 running hours each. Given the large total project volume of 28 packages, raising this threshold ensures the selection of a highly reliable partner with extensive long-term operational experience.	Tender Condition shall Prevail
48	Commercial Volume I (IFB)	14	8.0	8. IGL intends to split the quantities of compressor packages and its associated items as per schedule of rates among two bidders (L1: L2/ L3/L4...) in the ratio of 70:30 on L-1 price, i.e. 20 nos. and 08 nos.	we kindly request amending the distribution ratio from 70:30 to 60:40 as all qualified bidders meet the same stringent technical and field provenness criteria and are equal in capability. This balanced distribution ensures fair opportunity, optimizes manufacturing capacities, and enhances overall project execution security for IGL.	Tender Condition shall Prevail
49	Technical Volume II	32	7.3.1	Penalty towards Excess Package Gas Loss:	We request that instrument measurement error be considered while calculating gas loss penalties, as recommended by the Mass Flow Meter OEM. Gas loss penalties should be applicable only for losses exceeding the permissible instrument error limit quoted by the bidder in the Guaranteed Parameters (GP) sheet. This will ensure a fair and technically justified assessment of performance.	Tender Condition shall Prevail



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50	Technical Volume II	32	7.3.2	Penalty towards Excess Engine Fuel Consumption:	If sufficient load is not available at the site or the compressor is subjected to frequent auto start/stop operations due to demand fluctuations and operational conditions not attributable to the supplier, any resultant increase in fuel consumption shall be excluded from fuel consumption penalty calculations	Tender Condition shall Prevail
51	Technical Volume II	41	13.0	The date of successful field performance test (FPT) at site (which shall be conducted within 90 days from the date of successful commissioning of the machine). However, bidder shall be paid only 50% of O&M charge for operation and maintenance of the compressor from the date of commercial operation up to the date of performance test as part payment against O&M till the capacity and other guaranteed parameters of the package is established through FPT. The balance 50% of O&M charge (from the date of commercial operation up to the date of PG test) shall be released to the bidder subsequent to successful FPT (i.e. after establishing all the guaranteed parameters as per tender) In case the FPT is not successful, the balance 50% shall be forfeited. The bidder must follow the 'OPERATION & MAINTENANCE REQUIREMENT' as stated below but not limited to and ensure to provide trouble free services to the satisfaction of the owner.	We request IGL to release 100% O&M payments from the date of Commercial Operation. The bidder is required to make timely payments to O&M subcontractors/vendors from the commencement of operations, and withholding a portion of the O&M payment until PAT completion will create financial strain and may lead to deterioration in service delivery at site. The bidder can provide an undertaking to complete the Performance Acceptance Test (PAT) within the schedule and timelines agreed with IGL as sometimes due to low load / other issues machine PAT gets delayed at site. In view of the above, we request IGL to release 100% O&M payments from the date of Commercial Operation.	Tender Condition shall Prevail
52	Technical Volume II	22	4.7.4	Digital no flow timer shall be provided to stop the compressor in case of loss of cylinder lubrication.	OEM standard, Common Digital No Flow Switch (time based) will be provided.- When there is no- pulse (from cylinder lubrication- divider block) for certain time interval, the switch toggles & the compressor is tripped on lubrication fault.	Noted. Rest Tender Condition shall Prevail
53	Technical Volume II	29	6.2	Mechanical running test (MRT) The MRT for the each compressors shall be carried out in presence of PURCHASER/CONSULTANT with job or shop driver including complete job driving system i.e., job driven V-belt, job pulleys etc., for 4 hours continuously at shop of compressor manufacturer. The compressor need not be pressure loaded for MRT test. During this test following shall be recorded at agreed intervals. ☐ Vibration levels measured on cylinders and frame ☐ Bearing temperature ☐ Oil cooler inlet and outlet temp ☐ Sound level Subsequent to satisfactory run the compressor shall be examined as per standard procedure & following shall be examined as minimum: Internal Inspection certificate for strip test after no-load run of compressor is to be submitted for review of client / consultant. Strip test is limited to open Crank Case cover, X-Hd guide & distance piece Cover and opening of bore & other parts, piston, one valve per cylinder. Visual examination of position rod If any of part found damaged, all similar components shall be stripped for inspection. The MRT test shall be repeated after replacement of such parts. All the interlocking and performance of the instrumentation system will be verified during the MRT.	MRT will be carried out as per manufacturer's standard procedures. Reports shall be presented for review to Purchaser / Consultant / TPIA during final String Test of the Complete Package.	Tender Condition shall Prevail
54	Technical Volume II	29	6.3	Mechanical String Test	Test will be limited to witness of Performance Parameters as per Factory Acceptance Test (FAT) at full load on CNG fuel, However The test will not comprise of disassembly of any of component of Package for witness.	Tender Condition shall Prevail
55	Technical Volume II	12	1.6	Separate flameproof junction boxes for different type of signals like analog, digital signals, alarm, shutdowns, and thermocouples, RTDs etc. for interfacing to FLP local panel. Same is not applicable for direct run cable up to PLC panel.	LCP (With PLC) is mounted on package itself hence separate JB's are not required.LCP (With PLC) is mounted on package itself & also separate gauge box will be used for intrinsically safe signals.	Tender Condition shall Prevail
56	Technical Volume II	13	1.6	Override facility in LCP or in HMI to fill LCV in priority panel of compressors shall be provided.	This can be provided at programme logic with password protection instead of manual switch. Provision of manual switch for priority panel can lead to hazard in case on unauthorized person operation at site.	Tender Condition shall Prevail
57	Technical Volume II	13	1.6	Each stage outlet temperature before cooler & after cooler to be displayed on PLC.	Each stage outlet temperature before cooler and for after cooler temperature before and after will be displayed on PLC. In addition to this Temperature Transmitter provided at for PLC display to monitor temp at each stage. 1) Compressor suction 2) 1st stage discharge 3) 2nd stage discharge 4) 3rd stage discharge 5) Aftercooler outlet	Tender Condition shall Prevail
58	Technical Volume II	16	1.6	All exposed rotating parts shall be provided with adequate guards of non-sparking type.	Adequate protection as per Manufacturer's Proprietary designstandards shall be provided.	Tender Condition shall Prevail



INDRAPRASTHA GAS LIMITED
IGL Bhawan, 4, Community Center,
Sector 9, R.K.Puram, New Delhi-110022
Email: mohit.gupta@igl.co.in/ sweeti.kumari@igl.co.in

REPLY TO PRE-BID QUERIES
SUPPLY, INSTALLATION, TESTING, COMMISSIONING, OPERATION AND COMPREHENSIVE MAINTENANCE OF 1200 SCMH GAS ENGINE DRIVEN CNG COMPRESSOR PACKAGES
Tender No IGL/ET2/CP/CC18986

Sl. No.	Volume/ Section/ Clause No.	Page No.	Clause No.	Clause	Bidder's Query	IGL Reply
59	Technical Volume II	20	2.2.4	As and where specified on the data sheets all vents (i.e. Relief valve, distance piece and packing) shall be manifolded and terminated at skid edge outside the enclosure and vented to safe height of 3 m at package roof	Distance piece will be as per OEM standard. Venting is not applicable due to pressurised crankcase.	Noted. Rest Tender Condition shall Prevail
60	Technical Volume II	20	2.2.5	All drains from different process equipment, distance piece and packing shall be manifolded and terminated at single point for customer interface duly flanged with isolation valve	We shall provide oil recovery vessel (oil drain pot) of 20 liters to ensure uninterrupted operation of machine. ORV shall be mounted inside the package. All drains terminated at single point for customer interface duly tapped with isolation valve	Noted. Rest Tender Condition shall Prevail
61	Technical Volume II	23	4.9.1	Carbon Steel separators / KOD volume bottles with auto and manual drain system shall be provided for the capacity as required.	All the separators with auto drain system over manual drain system considered for safety reasons, only ORV with manual drain considered. Drain system will be time bases as per OEM standard offering.	Tender Condition shall Prevail
62	Technical Volume II	24	4.9.9	Coalescent super fine filters (preferably two stage) Third Party approved, for removal of liquid (e.g. water & oil) and solid particles down to 0.1 microns out of compressed natural gas shall be provided. Residual Oil Contents shall be less than 1 PPM. Automatic drains/ Timer based Automatic drain as per manufacturer's standard design with On-off valve connected to Gas recovery vessel shall be provided. The filters shall be sized to flow min. 200% of the flow at suction pressure of 19 kg/cm2(g) and discharge pressure of 250 Kg/cm2 (g). However mechanical design shall be based on safety set pressure.	OEM approved two stage discharge filter with timer base automatic oil drain as per standard design will be provided.	Tender Condition shall Prevail
63	Technical Volume II	25	4.1	Gas Engine Make	We shall considered Cummins India make gas engine	Noted. Rest Tender Condition shall Prevail
64	Technical Volume II	25	4.12.4	The Enclosure to restrict maximum noise level to 75 dB (A) at 1 meter from the enclosure	Maximum noise level to 75 dB (A) +/- 3dBA at 1 meter from the enclosure in free field condition.	Tender Condition shall Prevail
65	Technical Volume II	26	4.12.7	All the pressure, temperature, gas flow meter, oil level, lube oil pressure, coolant temperature, coolant level indicators shall be visible from outside of enclosures. enclosures as per the design of the manufacturer through gauge panel. However if due to space constraint some of the Instruments not visible from outside of enclosure then proper accessibility has to be provided for reading the parameters from the Instruments. The Flow meters shall be installed in such a way that if required reading can be taken safely on running of compressor during performance testing.	All the indicators for pressure, temperature of gas shall be visible from outside of enclosures. For rest of the parameters same can be viewed from PLC/locally.	Tender Condition shall Prevail
66	Technical Volume II	26	4.12.11	One vent line with double isolation valve shall be provided to emptying the package at 3rd stage separator.	Due to safety reason vent line not provided at 3rd stage separator, venting provision is provided at BDV with double isolation valve	Tender Condition shall Prevail
67	Technical Volume II	26	4.13	Piping	Gas piping/ tubing at 3rd stage discharge will only be in SS-316, with SS fittings, Rest all piping /tubing will be Combination of Flanged & screwed connections with CS material (pipes, Fittings & Flanges) as per application requirement & standard design. This is as per manufacturing standard design.	Tender Condition shall Prevail
68	Technical Volume II	27	4.13.10	External drain & vent piping shall be Carbon Steel and not less than 1" nominal size. However, all the internal drains shall be SS 316 tube as per ASTM A269. However all the internal drains shall be SS 300 series material.	Package oil drain will be of 1/2" as per manufacturer standard	Tender Condition shall Prevail
69	Technical Volume II	35	8.0	PAINTING AND PROTECTION	Painting shall be as per manufacturer's standard procedures. Package enclosure shall be Powder Coated ensuring longer durability in all weather out door installation conditions. The headers of air cooled exchangers shall be heat resistant epoxy painted	Tender Condition shall Prevail
70	Technical Volume II	36	8.5	Packing shall be sufficiently robust to withstand rough handling during ocean shipment & in- land journey. Sling points shall be clearly indicated on crates.	The canopy is weather proof so no separate packing consider. Package shall be covered in tarpaulin during road shipment.	Tender Condition shall Prevail
71	Technical Volume II	76	21	QUALITY ASSURANCE PLAN	Inspection & Testing will be as per final approved QAP	Tender Condition shall Prevail
72	Technical Volume II	77	22	Preferred makes GD & FD Ball Valve Check Valves Instrument SS fittings/valves SUCTION FILTER & Discharge Filter	Shall be as per final approved vendor list. Kindly approve below makes : PPS (pollution protection systems) PHBB Parker Baumer OEM Approved	Please refer Note-1 of Point No. 22.0 Rest tender conditions shall prevail
73	Technical Volume II	94	5.2.13	Graphics, Data acquisition, Real time monitoring & logging, modifying set point and range of critical process parameters (Digital and analogue) as defined in Instrument schedule through PT, RTD, switches, etc. installed in compressors.	Graphics, Data acquisition, Real time monitoring , modifying set point and range of critical process parameters (Digital and analogue) as defined in Instrument schedule through PT, RTD, switches, etc. installed in compressors.	Tender Condition shall Prevail
74	Technical Volume II	102	5.9.4 / 5.9.17	CERTIFICATION - Electrical instrumentation shall be certified by a recognized authority such as BASEEFA, PTB, LCIE, CESI, INIEX, CSIR ,CEA or any agency approved by Indian Government	CCOE or its equivalent certificate (FM, CSA , ATEX, UL, CMRI) whichever applicable & available will be provided. All Test certificates will be as per approved QAP	All electrically operated Instruments shall have mandatorily PESO certification; Rest tender Conditions Prevails



INDRAPRASTHA GAS LIMITED
IGL Bhawan, 4, Community Center,
Sector 9, R.K.Puram, New Delhi-110022
Email: mohit.gupta@igl.co.in/ sweeti.kumari@igl.co.in

REPLY TO PRE-BID QUERIES

SUPPLY, INSTALLATION, TESTING, COMMISSIONING, OPERATION AND COMPREHENSIVE MAINTENANCE OF 1200 SCMH GAS ENGINE DRIVEN CNG COMPRESSOR PACKAGES

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Sl. No.	Volume/ Section/ Clause No.	Page No.	Clause No.	Clause	Bidder's Query	IGL Reply
75	Technical Volume II	107	5.9.19	Compressor package shall be provided with the following indicators: i. Pressure indicator each stage suction and discharge. ii. Temperature indicator each stage suction and discharge iii. Oil pressure indicator on each pressure lubrication system iv. Oil levels indicator, field mounted v. Air pressure low indicator vi. Hour meter vii. Non- resettable electromechanical hour meter on local control panel. viii. Hydraulic oil cooler inlet & outlet temperature on local gauge panel (if required) ix.Low oil level protection devices xv. RPM indicator shall be in gauge panel	All instrument will be provided as per finalised approved P&ID. Approved by IGL.	Tender Condition shall Prevail
76	Technical Volume II	108	5.9.19	The compressor package shall be furnished with the following trip logic (but not limited to) that shall stop the compressor and suction of compressor shall be isolated: xii. Low fuel pressure xiii. Flow through the vent line	xii. Low fuel pressure - Not applicable xiii. Flow through the vent line trip logic not considered.	Tender Condition shall Prevail
77	Technical Volume II	118	ANNEX URE -1	Compressor Instrumentation	We shall provide instruments as per P&ID submitted and Instrument schedule for approval. Following not considered : 1. Frame Oil Sump/Reservoir Level : Switch not considered. 23. Coolant main pump disch. Pr.-NA as compressor is air cooled. 28. Coolant cooler Outlet Temp.-NA as compressor is air cooled. 29. Coolant reservoir Level-NA as compressor is air cooled. 42. Final Disch Pressure after coalescent filter *- Low alarm and trip not considered. 53. Temp before and after Air cooler- Each stage Outlet temp and for after coollet before after will be provided. *Smart type pressure transmitter at suction and discharge shall not be considered, Piezo resistive type will be provided.	Tender Condition shall Prevail
78	Technical Volume II	122	5.13.2	Engine Instrumentation	We shall provide instruments as per P&ID submitted and Instrument schedule for approval. Following not considered : 6. OIL COOLER OIL OUTLET TEMP.-Transmitter and gauge not considered. 8. Differential pressure gauge for fuel and air mixture- Engine suction gas pressure gauge and transmitter only shall be provided. 14. ENGINE JACKET C.W SUPPLY TEMP.- ENGINE JACKET C.W OUTLET temperature gauge and transmitter shall be provided 16. COOLANT MAIN PUMP DISCH. PR. - Not applicable. 17. COOLANT SUPPLY HEADER PR.- Not applicable. 19. COOLANT COOLER OUTLET TEMP - Not applicable. 20. COOLANT RESERVOIR LEVEL.- Not applicable. 22. AIR RECIEVER PRESSURE- Engine air starting pressure gauge and tranmitter shall be considered. 24. INLET AIR FILTER DIFFERENTIAL PRESSURE- Shall be same as engine air starting	Tender Condition shall Prevail
79	Technical Volume II	114	ANNEX UR E -1	SPECIFICATION OF GAS DETECTOR Infrared Sensor with Transmitter, with Local Display and Indicator	Gas detector with Local Display and Indicator not considered, For safety reasons, GD readings are purposefully shown only on HMI screen, since in event of gas leakage, it is not recommended for any operator to enter the area where leaked gas is already present. Further, visual indication on HMI, alarm & trip are also provided to take necessary actions without exposing person to hazard.	Tender Condition shall Prevail