

Ref: KLPL/HQ/C&M/Procurement of Compressors/01/2018

Date: 1.08.2018

To,
PROSPECTIVE BIDDERS

Sub: Clarifications to Pre-Bid Queries

Ref: Tender No. KLPL/HQ/C&M/Procurement of Compressors/01/2018 for "Procurement of BOG Compressor"

Dear Sir(s),

Please find enclosed herewith "Clarifications to Pre-Bid Queries (Dated 11.07.2018)" w.r.t. above-referred Tender.

This "Clarifications to Pre-Bid Queries (Dated 11.07.2018)" shall form an integral part of above-referred Tender, which shall be duly signed and submitted by the bidders along with their bids/offers. It shall be deemed that the bidders have submitted their bids/ offers in consideration of this "Clarifications to Pre-Bid Queries (Dated 11.07.2018)".

All other terms and conditions of above-referred Tender shall remain unchanged.

Encl: Clarifications to Pre-Bid Queries (Dated 11.07.2018)

Thanking you,

Yours truly,

For & on behalf of
Konkan LNG Pvt Ltd.

[Rajeev Mehrotra]

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CLARIFICATIONS TO PRE-BID QUERIES

Dated: 1.08.2018

Tender No. : KLPL/HQ/C&M/Procurement of Compressors/01/2018
 Subject : Procurement of permanent BOG Reciprocating Compressor

SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	KLPL'S REPLY
	SEC. NO	Page No.	Clause No.	Subject		
1	Scope of supply	142/158	2.2	Compressor system is to be hooked up with all the inlet process and utility streams and outlet discharge piping as shown in the P&ID.	KLPL will be responsible for the "hook up" installation work?	Yes
2	Scope of supply	144/158	4.2	The suppliers' scope of supply encompasses design / selection, supply & transportation to site including supervision for installation, pre-commissioning and commissioning activities.	Package installation to be on KLPL's duty, bidder just provide technical support, is that right?	Yes
3	Scope of supply	145/158	4.6.1- i)	compressors	Shall we provide the compressor driver motor of Ex'd' type suitable for Hazardous area Zone2, Gas Group IIA/IIB, Temperature C1.T3	Refer corrigendum
4	Scope of supply	146/158	4.6.1- j)	compressors	Please provide process datasheet	It is provided at page 156-158 in tender document.
5	Scope of supply	147/158	4.7-c)	PIPING	Please provide the P&ID & datasheet	P&ID for compressor package to be developed by vendor.
6	Scope of supply	148/158	4.8-d)	ELECTRICAL	Is the 500 meter linear distance between compressor skid and substation or the real cable length	It is real cable length.
7					Are there any Brand requirement & vendor list	Vendor can get prior approval from KLPL by submitting supporting documents.

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8	Section- III	85/158	3.0 Definition:	(xiv) Target Purchase Preference is the LC in percentage as mentioned below: 22 % (Twenty Percent)	Please confirm if target Purchase Preference in the LC is 20% or 22 %	22% (Twenty Two Percent)
9	Section- III	87/158	6) Certification and verification	c) Statutory Auditor's Certificate: The Undertaking submitted by the bidder shall be supported by a certificate (as per Form-3) from Statutory Auditor engaged by the bidder certifying that the bidder meets the mandatory local content requirements of the project.	Statutory Auditor's certificate on % of LC in supply part cannot be provided at the bidding stage. Request you to accept undertaking by bidder without certificate from Statutory Auditor. However Statutory auditor's certificate for LC shall be submitted during supply stage.	Tender terms prevail.
10	Section- III	147/158	ANNEXURE-A	1.10 Guaranteed capacity (kW)	Requirement not clear. Please confirm if compressor bkw or IKW is to be guaranteed?	Compressor input KW is to be guaranteed.
11	Section- III	148/158	4.8 ELECTRICAL	f) AREA CLASSIFICATION AND EQUIPMENT REQUIREMENTS i) Area Classification for Booster BOG Booster Compressor shall be done as per IS 5572 and Temperature Class-T3. However detailed area classification drawing shall be prepared by the supplier.	Detailed area classification drawing is prepared based on site conditions. As our scope of supply is restricted to supply of compressor package, we request you to include detailed area classification drawing in the scope of others.	Refer Technical Corrigendum.
12	Section- III	148/158	Supply of electrical equipment & facilities	Supply of new Booster BOG compressor motors and motors for all auxiliaries for the compressors at existing LNG Re-gas facilities. Supply of Local control stations having start/stop push buttons, L/R selector switch, ammeter for motors rated above 5.5KW for each motor including supply of all accessories and material, as required.	Kindly confirm if motor starters (for main motor and auxiliary motors) shall be in Client scope.	Only motor starters (for main motors) shall be in Client scope.
13	Section- III	149/158	4.9 INSTRUMENTATION:	c) Bidder to provide pressure safety valve on the knock out drum of 1st stage suction only.	Please note that PSV locations shall be decided DDE. Kindly confirm.	Agreed.

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				Pressure safety valve for each stage discharge shall be provided on discharge line piping.		
14	Section- III	150/158	4.10 PRE-COMMISSIONING AND COMMISSIONING SUPERVISION	a) Supplier shall be responsible for supervising pre-commissioning & commissioning of the compressor system, including supply of materials & equipment along with necessary piping and instrumentation connections for monitoring flow rate, pressure, temperature etc. temporary venting along with necessary piping, valves and instrumentation as well as consumables.	We request to include main motor current measurement in Client's scope.	Agreed
15	Section- III	150/158	4.10 PRE-COMMISSIONING AND COMMISSIONING SUPERVISION	c) Supplier shall perform leak detection and hydro testing of piping, considering all the requirements of ASME B31.3.	Please note that piping of the package shall be hydro tested at our works. However hydro testing of piping shall not be performed at site. Leak detection of piping shall be done by soap water test. Request you to accept.	Refer Technical Corrigendum.
16	Section- III	150/158	4.10 PRE-COMMISSIONING AND COMMISSIONING SUPERVISION	For the purpose of acceptance of the offered compressor during performance test run, As per ISO 13631 standards, the machines are to be designed with 3% tolerance of the rated capacity and 3% tolerance on power.	Please confirm the applicable tolerance on rated capacity and power.	Refer Technical Corrigendum.
17	Section- V Scope of supply	154/158	APPENDIX-II TERMS OF PAYMENT	(iv) 5% [SOR item 1,2,3 & 4] after successful installation and commissioning.	Kindly note that as E&C activity is not in our control, we request to release final 5% payment with the supply payment.	(i) 10% of [SOR A item 1,2,3] after receipt of drawings against submission of equivalent amount of Bank Guarantee (ii) 85%, of [SOR A item 1,2,3] after receipt and acceptance of the material

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						at site. (iii) 95% of SOR B item will be released as when consumed. (iv) 5% after successful installation and commissioning of both SOR A & B
18	Section- V Scope of supply	150/158	4.10.g	Required Capacity	1) Please note that the capacity shall be measured at the suction of the compressor package, for establishing compressor performance. 2) We understand that required capacity of each compressor is 6000 kg/hr.	1) Tender condition 4.10 (g) Prevails 2) Correct
19	Section-V	143/158	4.3	Scope of supply	1) We understand that the material of construction for pressure vessels, coolers, piping etc. shall be carbon steel. 2) Kindly confirm whether corrosion allowance 3mm is required to be considered for design of pressure vessels. 3) We understand that ASME U stamp is not required for vessels, coolers etc.	1) Agreed 2) Agreed 3) Refer technical corrigendum
20	Section- V	143/158	4.3	Scope of supply	1) We understand that no surface area (over capacity factor) is to be considered for the design of Air cooled heat exchanger. 2) Design & material for air cooler shall be offered as per OEM / cooler manufacturer standard.	1) Agreed 2) Agreed
21	Section- V	144/158	4	Scope of supply	1) We understand that OEM / vendor standard design in carbon steel construction (Mesh Pad or vane pack type) KOD is acceptable considered 2) Scope of supply shall be include suction, inter-stage and after cooler KOD.	1) Mesh Pad type KOD in carbon steel construction is acceptable. 2) Agreed. However, there shall be filters (1 working + 1 stand by) designed for less than 5 PPM of oil carry over after After cooler KOD.
22	Section- V	144/158	4	Scope of supply	We understand that recycle control valve	Recycle control valve along with

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					shall be loose supplied by bidder .Piping (from discharge KOD to suction KOD) shall be by client or site contractor.	piping from discharge KOD to Suction KOD mounted on skid or piping in commercial lengths and loose fittings also accepted.
23	Section- V	142/158	2.2	Scope of supply	We understand that operating parameters specified are at the battery limit of the compressor package (suction / discharge KOD). Necessary pressure drop shall be considered.	Yes
24	Section- V	146/158	4.6.2	Motor	<p>1) We understand that Ex'n' type motor are acceptable for main & auxiliary.</p> <p>2) Type of cooling shall be as per manufacturer's standard.</p> <p>3) We understand that supply of MCC / Motor starter is by others.</p> <p>4) We understand that the Electrical Power cabling for HV and MV motors etc. upto terminal box is by others.</p>	<p>1) Refer Technical corrigendum.</p> <p>2) Yes.</p> <p>3) No. Only HT motor Starter VCB 6.6KV is in KLPL's scope. All other supply are in bidder's scope.</p> <p>4) No. Only cable termination at HT panel 6.6KV VCB side at electrical substation is in KLPL scope. All cable supply are in bidder's scope.</p>
25	Section-III	147/158	4.7	Piping	<p>1) We understand that piping from compressor skid to air cooler is by client.</p> <p>2) We understand that KOD's are to be installed on the compressor skid.</p> <p>3) Please provide project P&ID, PFD & site layout drawings.</p> <p>4) We understand that piping between Lube oil console and compressor skid is by client.</p> <p>5) We understand that any Package Isolation Valves (automatic or manual) are being provided by client or others since it is not specified in MR. In case same is required from bidder, please clarify whether same to be automatic or manual & same shall be loose supplied.</p>	<p>1. Commercial pipe length & fittings accepted.</p> <p>2. Agreed.</p> <p>3. To be provided by Supplier during detailed Engineering.</p> <p>4. Commercial pipe length & fittings accepted.</p> <p>5. Not required</p>

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26	Section-III	149/158	4.9	Instrumentation	<p>1) We understand 1# PLC system (located in safe area) and 1# LCP for each compressor package to be supplied.</p> <p>2) Simplex type of PLC as per OEM recommendation shall be provided.</p> <p>3) We understand that OEM recommended instrumentation with necessary alarm and trip logics is acceptable. No 2 out of 3 logic or SIL level are considered. Please confirm.</p> <p>4) We understand cabling from the compressor skid to the PLC panel (in safe area) is by client and within compressor skid upto JB is by bidder. Please confirm.</p> <p>5) LCP shall be as per manufacturer's recommendation.</p>	<p>1) 1 # PLC & 1 LCP combined to be installed on each compressor skid. 2) Duplex Type of PLC With Power supply system & CPU redundancy to be considered 3) Acceptable 4) Required cabling of 375 meter for signal flow from compressor skid to DCS is in bidder scope, Third party communication with this PLC shall be on MODBUS protocol which is in bidders scope 5) As clarified in point 1.</p>
27	Section-III	156/158	Data Sheet	Compressor datasheet	<p>BIDDER will consider suction KOD for each compressor package. No additional KOD or buffer volume vessel is considered. BIDDER recommend client to carry pulsation / transient analysis of complete recip. & centrifugal compressor train. Please confirm. Client to provide distance between centrifugal & proposed recip. BOG compressor.</p> <p>Overall site layout & PFD is also required for our prior review.</p>	Acceptable.
28	Section-III	31/158	16.1	Bid Security	<p>Bidder is a renowned supplier providing reciprocating gas compressors for oil & gas industry and approved by GAIL, EIL etc. Hence we request you to please waive this requirement.</p> <p>Necessary financial capability documents will be provided as per of financial BQC.</p>	Tender terms prevail, as the same falls in the rejection criteria specified in the Tender.
29	Section-IV	7/24	13	Inspection	<p>Please add at the end the following: In case the inspection notice has been provided and the BUYER or 3rd party inspection agency fails to witness the inspection, then Supplier shall carry out the</p>	<p>Inspection is by 3 rd party appointed by bidder. QIP to be approved by client. Supplier IRN not acceptable.</p>

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					inspection and issue the IRN to the BUYER for further clearance of shipment.	
30	Section-IV GCC	13/24	20.1	Guarantee	In the 4th para: Please replace; "for a period of no less than twelve (12) months from the date of replacement/repair." WITH "for a period of no less than twenty-four (24) months from the date of replacement/repair on a one time basis."	Tender terms prevail, as the same falls in the rejection criteria specified in the Tender.
31	Section-IV GCC	16/24	24	Time as essence of Contract	Please add at the end of the clause: "with PRS as the sole and exclusive remedy of the BUYER / OWNER uptill the lapse of the PRS period."	Tender terms prevail.
32	Section-IV GCC	18/24	28	Termination of Contract	As the equipment being procured are customised and engineered to the project specifications, please add at the end of the clause the following language which is to ensure that the vendor is not economically deprived. " The BUYER / OWNER shall provide the Seller with a written notice informing the material nature of default and provide a reasonable remedy period after mutual agreement with the Seller to ensure that the project does not suffer. In case the Seller refuses to support or repeatedly fails to meet the agreed solution, then the BUYER shall exercise the right to terminate the contract."	Tender Terms prevail.
33	Section-IV GCC	24/24	41	Limitation of Liability	Please add the words "Howsoever arising" in the below paragraphs. "Notwithstanding anything contrary contained herein, the aggregate total liability of Seller under the Agreement or otherwise shall be limited to 100% of Agreement/Order price, <u>howsoever arising</u> . However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production, <u>howsoever</u>	Tender Terms prevail.

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					arising."	
34	Section-III	72/158	cl.26	Bid due date	We request KLPL to extend last date for bid submission by one month from receipt of all pre-bid queries response from KLPL.	Refer to Addendum-I
35	Section-III Annexure IV	71/158	cl. 15 Bid validity	BDS	9 months is too long period for bid validity. We request to make it 3 months & same is mentioned in F-10A	Refer to Corrigendum-II
36	Scope of Supply	153/158	Appendix I	Time Schedule	This being custom built & engineered rotating equipment, we request delivery time to be 11 months, Ex-works.	Refer to Corrigendum-II
37	Scope of Supply	154/158	Appendix II	Payment Terms	BIDDER propose following payment terms to support the project and same was accepted by GAIL in previous PO to DR (ref. no. GAIL/NOIDA/C&P/14106/8894); - 15% of order value after receipt of drawings (as defined as P&ID, GA, ITP) against submission of equivalent amount of Bank Guarantee. - 15%, of order upon order of major items (compressor frame, cylinder, main motor) against submission of equivalent amount of Bank Guarantee. - 10%, of order upon receipt of major items (compressor frame, cylinder, main motor) at DR facility against submission of equivalent amount of Bank Guarantee. - 55% of order value upon shipment. - 5% of order value after successful installation and commissioning or 6 months from despatch whichever is earlier.	(i)10% of [SOR A item 1,2,3] after receipt of drawings against submission of equivalent amount of Bank Guarantee (ii)85%, of [SOR A item 1,2,3] after receipt and acceptance of the material at site. (iii)95% of SOR B item will be released as when consumed. (iv)5% after successful installation and commissioning of both SOR A& B
38	Section- V Scope of supply	143/158	Clause 2.3 (g)	First fill of all consumables	Please note that the fill of all applicable consumables shall not be in BIDDER'S scope. Same shall be done by KLPL/Others.	Tender conditions prevail.
39	Section III	144/158	Clause 3.0 (d)	Two number of compressor units are required to meet discharge capacity	BIDDER request customer to clarify the required number of compressor units since as per clause 3.0 (d), two compressors are required. However, in compressor process datasheets, no. of compressor packages	No. of packages required is 1 for regular use. However Two number of compressor units of 6000 T/hr are required to meet discharge capacity.

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					required is 1.	
40	Section III	144/158	Clause 3.0 (h)	sufficient margin & provisions	Purchaser shall clearly inform which capacity control provisions required for the compressor package. Whether suction valve unloaders / fixed volume clearance pockets / variable volume clearance pockets / speed variation is required.	As per manufacturer standard are acceptable.
41	Section III	144/158	Clause 4.3	skid mounted package	Please note that compressor package shall be foundation mounted since the compressor can not be installed on skid due to weight and size of compressor and motor unit.	Tender conditions prevail.
42	Section- V	146 /158	Cl 4.6.1	Air Coolers	BIDDER requests you to consider water coolers as per TEMA C.	Tender conditions prevail.
43	Section III	144/158	Clause 4.6.1 (m)	Noise Level	BIDDER confirms to provide Noise level of 88 dBA under free field condition when measured at 1 m distance	Accepted.
44	Section III	144/158	Clause 4.6.2	Main motor enclosure	Please clarify the enclosure required for main motor is Exd (Flameproof) or Exp (Purged). In the clause Ex p is mentioned where as in clause no 4.6.1 (i) Flameproof motor is mentioned.	Refer technical corrigendum.
45	Section- V Scope of Supply	157/158	General	Discharge Temperature	BIDDER understands that each stage discharge temperature up to 150 Deg C is acceptable to KLPL. BIDDER recommends same.	Accepted.
46	Section I	4/158	Clause 2.0 E	Supply of motor driven BOG Booster compressors will be Nine (09) months and time of completion shall be reckoned from the date of issue of Fax/Letter of intent	Please note that The delivery period of BOG compressor package of 9 months is not possible since this is custom engineered reciprocating compressor package for BOG application. BIDDER can confirm the best possible delivery period of 13-14 months from date of issue of purchase order.	please refer Corrigendum-II
47	Section-III	27/158	12.2.3	Concessional rate of Custom Duty	KLPL to confirm at this stage if any concession/relaxation on custom duty is applicable for imported components/parts.	At present ,no Concession/relaxation is known.
48	Section III	28/158	Clause 13	Taxes & Duties (GST)	GST shall be paid extra at actuals as applicable at the time of dispatch. The same shall be applicable even after CDD.	GST payable extra at actuals within CDD, subject to cl.13 of ITB pg 28/158.

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49	Section III	42/158	Clause 37.1.1	Details of Goods / Cargo within 15 days	Details of Goods / Cargo within 15 days shall be submitted 1 month before shipment of material from our works	please refer Corrigendum-II
50	Section III	43/158	Clause 38.1	Contract Performance Security / Security Deposit	Contract Performance Security shall be submitted within 2 months of the date of PO.	Tender Conditions prevail, as this falls under rejection criteria (refer cl. 19.2 of ITB , Section-III to Tender)
51	Section III	47/158	Clause 44 & 45	Arbitration	The arbitration shall be as latest Indian arbitration Act under which 3 arbitrators will be appointed, one arbitrator by vendor, one arbitrator by GAIL and one arbitrator by both together.	Tender Conditions prevail, as this falls under rejection criteria (refer cl. 19.2 of ITB , Section-III to Tender)
52	Section III	49/158	Clause 47	REPEAT ORDER	Repeat Order (If Any) shall be placed within 3 Months.	please refer Corrigendum-II
53	Section III	154/158	APPENDIX-II	Payment Terms	Request to revise payment terms considering custom build compressor Payment terms shall be as mentioned below: -10% Advance against PO along with advance bank guarantee of equivalent amount valid till delivery date. - 10% Advance against approval of GA drawing on CODE 2 and along with bank guarantee of equivalent amount valid till delivery date. -10% against placement of PO of motors, pulsation vessels and Air coolers -70% payment along with 100% taxes and duties against despatch documents through banks and performance bank guarantee of 10% of PO value valid till warranty period. All payments shall be made within 10 days of submission of invoices.	(i)10% of [SOR A item 1,2,3] after receipt of drawings against submission of equivalent amount of Bank Guarantee (ii)85%, of [SOR A item 1,2,3] after receipt and acceptance of the material at site. (iii)95% of SOR B item will be released as when consumed. (iv)5% after successful installation and commissioning of both SOR A& B
54	Section III	143/158	Clause 2.3 (a)	Bidder has to supply the compressor package within 9 (Nine) months from the award	Please note that this is engineered compressor package. Hence, Delivery of compressor package within 9 months is not possible. However, BIDDER shall provide best minimum possible delivery period. Please also note that the complete documentation shall be provided as per	please refer Corrigendum-II

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					bidder's standards within 2 months after dispatch of material.	
55	Section IV	4 /24	Clause No. 5.4	Documents	2 Sets of hard copy of documents and 1 Soft Copy shall be submitted as part of final documentation.	please refer Corrigendum-II
56	Section IV	5/24	Clause No. 9.1	Modification in Contract	In the event of changes in scope of work/supply, the contract shall be modified accordingly for price and delivery implication as per notice given by bidder. Further, the project execution shall be put on HOLD till the modified contract is provided to bidder.	Tender terms prevail
57	Section IV	13 /24	Clause No. 20.1	Guarantee	Warranty of the compressor package shall be limited to 12 months from the date of commissioning or 18 months from the date of dispatch whichever is earlier. There is no extended warranty period for repaired or replaced parts.	Tender Conditions prevail, as this falls under rejection criteria (refer cl. 19.2 of ITB, Section-III to Tender)
58	Section IV	19 /24	Clause No. 28.3	Termination for Convenience	If the purchase order/ contract is terminated for reasons not attributable to bidder, then cancellation charges shall be paid to bidder as per cancellation schedule attached with the offer.	Tender terms prevail