

TRACTEBEL Engineering GDF SUEZ			REPLY TO PRE BID QUERIES # 1 CNG Compressor Package FOR CNG & CGD Project in Hyderabad Phase II		Tender doc. No.: P.002062 G09 5005 Owner -Bhagyanagar Gas Limited Consultant - Tractebel Engineering Pvt. Ltd. Date: 29.12.2011.
Sl. No.	Vol. No.	Tender Page No.	Clause No /Description	Bidder's Query/Clarification	BGL/TEPL's Reply
<b>COMMERCIAL</b>					
<b>BIDDER 1</b>					
1	I of II	100008	Cl 3.1.3 of Invitation For Bids	The tendered packages are high pressure compressor packages with discharge pressure of 255 kg/cm <sup>2</sup> g. Experience and expertise is required to package this type of high pressure packages. These compressors need to be tested on full load in the packager's shop to demonstrate the performance. We therefore request you to check the above points while evaluating the bids.	Noted.Tender condition prevails
2	I of II	100010	Cl 4.1 of Invitation For Bids	We request you to give us the site address for both the compressor packages to be transported to enable us consider cost for transportation from BGL store, Hyderabad to installation site.	Site will be located within Hyderabad only. Address will be confirmed after delivery of Compressor Package to BGL Store. For bidding purpose Bidder to consider cost of transportation within the city of Hyderabad only
3	I of II	100011	Cl 5.2 of Invitation For Bids	Please note that installation completion within three months is from the date of delivery at Purchaser's store depends upon the site readiness.	Tender condition prevails
4	I of II	-	Cl 4.0	Clause not attached in bid	Please refer to Corrigendum # 1 Sr.No 1
5	I of II	100055	Cl 15.1.2 Payment Terms	We accept the payment terms as per the tender , however considering the short delivery of the package, we request you to agree the payment terms as following: • 90% of supply value including string test as applicable will be paid progressively by Owner within 15 days against dispatch documents. • 10% against successful completion of installation and commissioning, FPT and handing over of individual compressor package and if the same is delayed because of non-readiness of site then the final payment to be released within ninety days of equipment receipt at site. The above payment terms are accepted by major Gas companies in India like IGL, CUGL, GSPC, etc.	Tender condition prevails
6	I of II	100055	Cl 15.2.2 Payment Terms-Installation Portion	We accept the payment terms as per the tender , however we request you to agree the payment terms as following: • 15% against successful completion of Field Performance test and handing over of individual compressor package and if the commissioning is delayed because of non-readiness of site then the final payment to be released within thirty days of equipment erection at site.	Tender condition prevails
<b>BIDDER 2</b>					

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					<b>Owner -Bhagyanagar Gas Limited</b> <b>Consultant - Tractebel Engineering Pvt. Ltd.</b>
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7	I of II	100007 & 100008	Cl No 3.1.2-1-IFB	WE UNDERSTAND BIDDERS HAVING PREVIOUS SUPPLY RECORD FOR MIN 2000 SCMh CAPACITY OR HIGHER WILL QUALIFY TO BID. WE ASSUME 1200 SCMh MENTIONED IN BRACKET MAY BE DUE TO TYPO ERROR. WE ARE MADE TO UNDERSTAND THAT OTHER INDIAN PSU LIKE ONGC, GAIL, IOCL, OIL PROCURE X CAPACITY ROTATING EQUIPMENT FROM OEM WHO HAD EARLIER SUPPLIED MIN X CAPACITY ROTATING EQUIPMENT OR HIGHER. PLEASE CONFIRM.	Bidders who has supplied at least one package in last seven years of Reciprocating Hydrocarbon Gas Compressor of Capacity 1200 SCMh and min discharge pressure 250 barg , gas engine driven of minimum 100 kW ISO shaft power at max operating RPM and which has completed the continuous trouble free operation for min 8000 hrs as on the bid due date will be accepted
8	I of II	100008	IFB 3.1.2 - 2- IFB	WE UNDERSTAND BIDDERS HAVING PREVIOUS SUPPLY RECORD FOR MIN 2400 SCMh CAPACITY OR HIGHER WILL QUALIFY TO BID. WE ASSUME 1200 SCMh MENTIONED IN BRACKET MAY BE DUE TO TYPO ERROR. WE ARE MADE TO UNDERSTAND THAT OTHER INDIAN PSU LIKE ONGC, GAIL, IOCL, OIL PROCURE X CAPACITY ROTATING EQUIPMENT FROM OEM WHO HAD EARLIER SUPPLIED MIN X CAPACITY ROTATING EQUIPMENT OR HIGHER. PLEASE CONFIRM.	Bidders who has supplied at least one package in last seven years of Reciprocating Hydrocarbon Gas Compressor of Capacity 1200 SCMh and min discharge pressure 250 barg , electric motor driven of minimum 100 kW ISO shaft power at max operating RPM and which has completed the continuous trouble free operation for min 8000 hrs as on the bid due date will be accepted
9	I of II	100050	SCC 3.0	PLEASE PROVIDE THE CORRECT PAGE NO. 48 OF VOL. 1. THE ENCLOSED PAGE NO 48 IS NOT RELEVANT.	Please refer to Corrigendum # 1 Sr.No 1
10	I of II	100054	SCC 15.1.1 B- PAYMENT OF 10% OF SUPPLY VALUE BY CHQUE ONLY AFTER , I&C, FPT AND TRAINING OF BGL	WE REQUEST TO RELEASE REMAING 10% OF SUPPLY PORTION IMMEDIATELY AFTER COMMISSIONING	Tender condition prevails
11	I of II	100053	SCC 12.1- CUSTOM DUTY SHALL BE DIRECTLY PAID BY OWNER/BGL	WE UNDERSTAND THAT BGL WILL PAY CUSTOM DUTY DIRECTLY TO THE CUSTOM DEPTT. PLEASE CONFIRM.	Please refer to Corrigendum #1 Sr.No 2
12	I of II	100054	SCC 15.1.1A NOTE- REIMBURSED OF CUSTOMS DUTY & STEVEDORING BY BGL.	WE UNDERSTAND THAT BGL WILL PAY CUSTOM DUTY DIRECTLY TO THE CUSTOM DEPTT. PLEASE CONFIRM.	Tender condition prevails

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Sl. No.	Vol. No.	Tender Page No.	Clause No /Description	Bidder's Query/Clarification	BGL/TEPL's Reply
<b>TECHNICAL</b>					
<b>Bidder-1</b>					
1	II of II (TECHNICAL)	200006	MATERIAL REQUISITION-Item 2.1	Please clarify the requirement of soft starter as in CI 4.1.32 of PTS Electric Motor driven CNG compressor package 2400 SCMh it is mentioned that "The starting control would be through a variable frequency drive (VFD) panel."	Bidder's understanding is correct. Compressor shall be provided with VFD Panel through which Compressor starts/ stops & frequency control for motor speed is to be regulated.
2	II of II (TECHNICAL)	200016	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH CI 2.2	Please note that API-618 is a guideline for Reciprocating Compressor in Petroleum, Chemical & Gas Industry services. API-618 is typically used for Recip compressor in refinery application. Thus, same is not applicable.  API 11 P Guideline used for CNG application.	Bidder's understanding is correct. Bidder shall follow the guideline API 11P with other applicable codes specified in tender document. Relevant clauses as applicable may be referenced to API 618
3	II of II (TECHNICAL)	200021	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH CI 3.2	Distance between compressor package and feeder in electrical room shall be provided to consider the cost of cable in the bid	For Bidding purpose consider the distance between Compressor Package and feeder in electrical room to be 75 m.
4	II of II (TECHNICAL)	200021	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH CI 4.0 A. GENERAL DATA	Please note that we have supplied all CNG compressors till date with unlined cylinders as liners are not required for this application. Request you to accept unlined cylinders.	Tender condition prevails
5	II of II (TECHNICAL)	200027 & 200028	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH CI 5.1.13- Cylinder & Packing Lubrication	Our lubricator is divider block type lubrication system.  As per Manufacturer standard lubrication system is divider block type and thus Sight flow indicator & double ball check valve is not provided	Tender condition prevails

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6	II of II (TECHNICAL)	200028	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  CI 5.1.16- Separator & Oil removal System- Scrubber service class-B shall be used for inter-stage/discharge scrubbers. Service class-C shall be used for suction scrubber	KOD shall be provided at main suction only. It shall not be designed as per Service Class-C.  The proposed CNG package has suction volume bottle at each stage. The volume bottle at suction connected to condensate drain system through auto-drain valves. These volume bottles shall act as condensate removal system. No separate KODs are required. Thus same is not offered at interstage. As the suction KOD shall be used as Gas Recovery vessel, service class -C cannot be used for it.	Bidder's understanding is correct. KOD at suction is to be provided which shall be used as a Gas recovery vessel but the same has to be of service Class C. Interstage KOD is not required but condensate /moisture separator with draining facility is to be used in design.
7	II of II (TECHNICAL)	200028	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  CI 5.1.16- Separators & oil removal system- NRV shall be provided on suction, 1st stage and 2nd stage scrubber drains.	Auto drain valves will be provided for each pulsation vessel which will open after regular interval of time.	Tender condition prevails
8	II of II (TECHNICAL)	200029	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  CI 5.1.16- Oil recovery pot shall be provided with double isolation manual valve, safety relief valve and level gauge.	We shall provide oil recovery vessel with level gauge only. Oil recovery vessel is connected to Blow Down Vessel which has an SRV mounted on it. Thus no separate SRV is required for same. Due to space constraint we shall not mount a double isolation valve for oil removal system.	Tender condition prevails
9	II of II (TECHNICAL)	200029	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  CI 5.1.16- Coalescent super fine filters with CE mark for removal of liquid and solid particles.	CE mark filters are not required. We request you to accept third party inspected filters.	Tender condition prevails

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10	II of II (TECHNICAL)	200040	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  Cl 5.7.8- Gas Meter - 1 no. hand held communicator per 2 nos. of compressor packages.	Kindly clarify requirement of hand held communicator.	Tender condition prevails.  1 No Hand held communicator shall be provided with each of the Compressor Package.Hart Communicator of Mode No 475 is to be procured.
11	II of II (TECHNICAL)	200045	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  Cl 5.11.5 - General Specification & Description- Bidder to provide required licensed software CDs for each CNG compressor package for Human Machine Interface.	Please clarify whether HMI is common for two compressors or 01 no for each compressor package.	Tender condition prevails .  Bidder to supply 1 No HMI with each Compressor Package
12	II of II (TECHNICAL)	200048	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  Cl 5.11.5 - Emergency Shut Down Device - Human Machine Interface (HMI) shall be provided with touch screen and operating system software.....	The CNG package will be provided with flameproof panel with the MMI mounted on the door panel. As per the flame proof panel design the MMI is provided on the back side of toughened glass. Hence the screen is not directly accessible to the operator. The MMI can be operated with the help of push button provided in the panel. The same philosophy is adopted for all CNG packages.	Bidder's understanding is correct
13	II of II (TECHNICAL)	200066	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  4.3 of Attachment # 2-Compressor Datasheet for 2400 SCMH- Oil cooled exchangers: TEMA C	Oil coolers will be as per manufacturer's standard.	Tender condition prevails

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14	II of II (TECHNICAL)	200070	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  9.1.6 of Attachment # 2-Compressor Datasheet for 2400 SCMH, ASME/IBR code stamp for coolers	The air exchanger shall be inspected by an approved third party Inspection Agency and shall not be ASME/IBR code stamped.  The practice is adopted for all the CNG packages supplied by us to various clients in India, to reduce the delivery period.	Tender condition prevails
15	II of II (TECHNICAL)	200070	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  9.3.5 of Attachment # 2-Compressor Datasheet for 2400 SCMH, ASME/IBR code stamp for Pulsation dampers	The pulsation dampers shall be inspected by an approved third party Inspection Agency and shall not be ASME/IBR code stamped  The practice is adopted for all the CNG packages supplied by us to various clients in India, to reduce the delivery period.	Tender condition prevails
16	II of II (TECHNICAL)	200070	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  9.4 of Attachment # 2-Compressor Datasheet for 2400 SCMH-Separator	Separator at 1st stage suction, 1st stage discharge, 2nd stage discharge  The proposed CNG package has suction volume bottle at each stage. The volume bottles at suction are connected to condensate drain system through auto-drain valves. These volume bottles shall act as condensate removal system. No separate separators are required.	Coalescent Filters/ Separators at each stage is required as per Tender conditions. Tender condition prevails.
17	II of II (TECHNICAL)	200070	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  9.5.2 of Attachment # 2-Compressor Datasheet for 2400 SCMH-ASME/IBR code stamp for Oil mist separator at final discharge	Oil mist separator shall be inspected by an approved third party Inspection Agency and shall not be ASME/IBR code stamped.  The practice is adopted for all the CNG packages supplied by us to various clients in India, to reduce the delivery period.	Tender condition prevails
18	II of II (TECHNICAL)	200070	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  9.6.2 of Attachment # 2-Compressor Datasheet for 2400 SCMH- ASME/IBR code stamp for Gas recovery vessel.	Gas recovery vessel shall be inspected by an approved third party Inspection Agency and shall not be ASME/IBR code stamped.  The practice is adopted for all the CNG packages supplied by us to various clients in India, to reduce the delivery period.	Tender condition prevails

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*[Handwritten Signature]*

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19	II of II (TECHNICAL)	200071	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  10.11 & 10.12 of Attachment # 2- Compressor Datasheet for 2400 SCMH - Level transmitters for suction KOD and Discharge KOD	Auto drain valves will be provided for each pulsation vessel which will open after regular interval of time; hence level transmitters are not required	Tender condition prevails
20	II of II (TECHNICAL)	200087	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH  Attachment # 6-Typical layout of CNG mother/Online compressor layout at CNG station - Noise level at the mentioned points which are at a distance of 1 meter from the compressor canopy / enclosure shall be 70 db(A) maximum.	Noise level at a distance of 1 meter from the compressor enclosure shall be 75 db(A) maximum.  As per 4.5 of Attachment # 2-Compressor Datasheet for 2400 SCMH, Page 52 of 63; sound level shall be 75 DBA at 1 m from enclosure.	Bidder's understanding is correct. Noise level at a distance of 1 meter from the compressor enclosure shall be 75 db(A) maximum.
21	II of II (TECHNICAL)	2000120	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE  Cl 2.2.4- Battery limits: Supply, erection and termination of all cables and accessories from feeder in electrical room shall be in the bidders scope.	Distance between compressor package and feeder in electrical room shall be provided to consider the cost of cable in the bid.	For Bidding purpose consider the distance between Compressor Package and feeder in electrical room to be 75 m.
22	II of II (TECHNICAL)	200120	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE  Cl 4.1.2- The compressor shall meet all the technical requirements as specified in:-----	Please note that API-618 is a guideline for Reciprocating Compressor in Petroleum, Chemical & Gas Industry services. API-618 is typically used for Recip compressor in refinery application. Thus, same is not applicable.  API 11 P Guideline used for CNG application.	Bidder's understanding is correct. Bidder shall follow the guideline API 11P with other applicable codes specified in tender document.
23	II of II (TECHNICAL)	200121	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE  Cl 4.2.1- The rotational speed of both compressor and engine shall be limited to maximum of 1500 rpm.	We request you to keep the maximum rotational speed limit of compressor and driver as 1600 rpm.	Tender condition prevails

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24	II of II (TECHNICAL)	200122	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Cl 4.7.1 - Single plunger per point force feed mechanical lubricator or divider block system shall provide lubrication to compressor cylinders.	Our lubricator is divider block type lubrication system. As per Manufacturer standard lubrication system is divider block type and thus Sight flow indicator & double ball check valve is not provided	Tender condition prevails
25	II of II (TECHNICAL)	200122	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Cl 4.7.3- Lubricators shall have a sight flow indicator for each lubricator point and a stainless steel double ball check valve shall be provided at each lubrication point.	Our lubricator is divider block type lubrication system. As per Manufacturer standard lubrication system is divider block type and thus Sight flow indicator & double ball check valve is not provided	Tender condition prevails
26	II of II (TECHNICAL)	200122	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Cl 4.9.1 - Separators/KOD	Separators at suction and interstage and with .... The proposed CNG package has suction volume bottle at each stage. The volume bottles at suction are connected to condensate drain system through auto-drain valves. These volume bottles shall act as condensate removal system. No separate separators are required.	Coalescent Filters/ Separators at each stage is required as per Tender conditions. Tender condition prevails.
27	II of II (TECHNICAL)	200123	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Cl 4.9.3- Scrubber service class-B shall be used for inter-stage/discharge scrubbers. Service class-C shall be used for suction scrubber.	KOD shall be provided at main suction only. It shall not be designed as per Service Class-C. The proposed CNG package has suction volume bottle at each stage. The volume bottle at suction connected to condensate drain system through auto-drain valves. These volume bottles shall act as condensate removal system. No separate KODs are required. Thus same is not offered at interstage. As the suction KOD shall be used as Gas Recovery vessel, service class -C cannot be used for it.	Bidder's understanding is correct. KOD at suction is to be provided which shall be used as a Gas recovery vessel but the same has to be of service Class C. Interstage KOD is not required but condensate separator is to be used in design.
28	II of II (TECHNICAL)	200123	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Cl 4.9.6 - Oil recovery pot shall be provided with double isolation manual valve, safety relief valve and level gauge.	We shall provide oil recovery vessel with level gauge only. Oil recovery vessel is connected to Blow Down Vessel which has an SRV mounted on it. Thus no separate SRV is required for same. Due to space constraint we shall not mount a double isolation valve for oil removal system.	Tender condition prevails
29	II of II (TECHNICAL)	200123	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Cl 4.9.7 - Coalescent super fine filters with CE mark for removal of liquid and solid particles....	CE mark filters are not required. We request you to accept third party inspected filters.	Tender condition prevails


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30	II of II (TECHNICAL)	200128	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Cl 4.28 - Bidder to provide required licensed software CDs for each CNG compressor package for Human Machine Interface.	Please clarify whether HMI is common for two compressors or 01 no for each compressor package.	Tender condition prevails . Bidder to supply 1 No HMI with each Compressor Package
31	II of II (TECHNICAL)	200180	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Line 26 of - Datasheet- Compressor (Capacity- 2000 SCMH)- Oil cooler: TEMA C	Oil coolers will be as per manufacturer's standard.	Tender condition prevails
32	II of II (TECHNICAL)	200229	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE Cl 15 - Operator Interface-MMI-The operator screen shall be .....	The CNG package will be provided with flameproof panel with the MMI mounted on the door panel. As per the flame proof panel design the MMI is provided on the back side of toughened glass. Hence the screen is not directly accessible to the operator. The MMI can be operated with the help of push button provided in the panel. The same philosophy is adopted for all CNG packages.	Bidders understanding is correct.
33	II of II (TECHNICAL)	200152	Annexure-IV Recommended vendor list.....	We request to approve following additional vendors: For Solenoid Valves – Rotex For Gas discharge filter – Beko For Self actuated pressure regulating valve - Nirmal	Refer Corrigendum # 1- S.No. 10
<b>BIDDER 2</b>					
34	II of II (TECHNICAL)	200006	Material Requisition - General- 10 Mandays training to BGL personnel at site	PLS CONFIRM WHERE DO YOU WANT TARAINING TO BE IMPARTED - AT SITE OR AT MANUFACTURER'S WORKS ?	Training is to be imparted at Site
35	II of II (TECHNICAL)	200007	Material Requisition - Note No 1 :	HERE IT IS MENTIONED COMMUNICATION CABLE AND LAPTOP SHALL BE SUPPLIED WITH 2000 SCMH GAS ENGINE PCKG. PLEASE CONFIRM WHEATHER OR NOT BIDDER HAS TO SUPPLY LAPTOP.	Communication cable from Compressor Package to Control Room is in the scope of the Bidder . Laptop is not in the scope of supply of the Bidder.
36	II of II (TECHNICAL)	200015 & 200030 (PARA4)	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH- Clause No 1.0 EXCLUSION & 5.1.19	IT IS MENTIONED AIR & CO2 PIPING SHALL BE OF SEAMLESS CS PIPE IN PAGE NO 200015. IN PAGE NO 200030 IT IS MENTIONED AIR HEADER UP TO COMPR ENCLOSURE & CO2 PIPING SHAL BE SS 304	SS304 Material is to be used for instrument air piping. C.S.Steel is to be used for CO2 piping.
37	II of II (TECHNICAL)	200019	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH- Clause No 2.7.1-ALTITUDE - 560 MTR MSL.	PLZ RE-CONFIRM THE ALTITUDE.	Tender condition prevails

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			<b>REPLY TO PRE BID QUERIES # 1</b> <b>CNG Compressor Package</b> <b>FOR</b> <b>CNG &amp; CGD Project in Hyderabad Phase II</b>		<b>Tender doc. No.:</b> <b>P.002062 G09 5005</b>
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38	II of II (TECHNICAL)	200022 & 200028	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH- Clause No 4.0 B & 5.1.15	DIFFERENT AMBIENT TEMP IS MENTIONED - 47.5 DEG C AND 42 DEG C. PLEASE CONFIRM WHAT AMB TEMP SHALL BE CONSIDERED FOR DESIGNING OF AFTER COOLER	For Both 2400 SCMH Electric Motor driven and 2000 SCMH Gas Engine driven design, Ambient air temperature to be taken for designing is 47.5 Degree Celcius. Maximum After cooler Temperature to be taken for design is 52 Degree Celcius.
39	II of II (TECHNICAL)	200006 & 200024	Material Requisition - General- 10 Mandays training to BGL personnel at site- Clause No 2.1 & PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH- Clause No 4.1.32	STARTING CONTROL WITH SOFT STARTER OR VFD PANEL FOR 2400 SCMH M/C WE CONSIDER STANDARD SOFT STARTER WOULD SUFFICE. PLEASE CONFIRM.	Compressor shall be provided with VFD Panel through which Compressor starts/ stops & frequency control for motor speed is to be regulated.
40	II of II (TECHNICAL)	200035	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH-	NO. OF HOT STARTS OF MOTOR - 4 PER HOUR I.E. 15 MIN GAP AS A BEST PRACTICE 3 NOS HOT START I.E. 20 MIN GAP RECOMMENDED. PLEASE CONFIRM	Tender condition prevails
41	II of II (TECHNICAL)	200043	PTS ELECTRIC MOTOR DRIVEN CNG COMPRESOR PACKAGE 2400 SCMH- MAKE OF PLC SHALL BE SIEMENS(S-7 1200), ALLEN BRADLEY OR EQUIVALENT.	PLZ CONFIRM SAIA MAKE PLC IS ALSO ACCEPTABLE	Tender condition prevails
42	II of II (TECHNICAL)	200120	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE 2400 SCMH- Cluase Nos 3.1.1 & 3.1.2	EQUIPMENT QUALIFICATION CRITERIA MENTIONED IN BEC AS 7 YEARS. HERE IT IS MENTIONED 5 YEARS. WE CONSIDER IT SHOULD READ AS 7 YEARS IN LINE WITH BEC. PLEASE CONFIRM.	Equipment Qualification Criteria is 7 yrs as per BEC Clause of Commercial Volume I of II.
43	II of II (TECHNICAL)	200130	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE 2400 SCMH- Cluase Nos 5.15.2	THE LUBE OIL FILTER SHALL BE MOUNTED ON ACOUSTIC ENCLOSURE, NOT ON ENGINE. LEADING ENGINE MANUFACTURER LIKE CAT & CUMMINS MOUNT FILTER ON ENGINE. THESE ENGINES ARE RUNNING PERFECTLY FOR SEVERAL YEARS. HENCE FILTER MOUNTED ON ENGINE SHALL BE ACCEPTABLE. PLEASE CONFIRM.	Lube Oil filter mounted on Engine is acceptable.
44	II of II (TECHNICAL)	200019 & 200150	PTS GAS ENGINE DRIVEN COMPRESOR PACKAGE 2400 SCMH- Cluase Nos 2.7.2	GAS COMPOSITION PROVIDED IS DIFFERENT IN DIFFERENT PAGES. PLZ PROVIDE GAS COMPOSITION DATA FOR OUR CONSIDERATION	Please refer to Design Gas Composition of Page No 200019 for Both the Packages.

*Ankur Roy*  
*CTE-IND.*  
*30/12/2011*

