

Sr No.	Tender clause No. / Annexure	Page No.	Description of Clause	Bidder Query	PMC/ Client Response	Bidder Query	PMC/ Client Response
Commercial Queries							
1							
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Technical Queries							
1	Clause No. 13.2 of Special Condition of Contract Clause No. 13.3 of Special Condition of Contract Clause No. 13.4 of Special Condition of Contract	Pg 64 of 90	Equipment Availability: 13.2 Equipment Availability on monthly basis shall be more than 98% (since 2 + 1 configuration selected) on available flow rate of 0.25 MMSCMD to 0.5 MMSCMD. 13.3 In case percentage availability is lesser than 98% then fixed monthly rental charges shall be deducted by 20 % of fixed monthly rental charges of that month bill. 13.4 In case system downtime exceeds 6 hours beyond 2% of non-availability, then maximum fixed monthly rental charges shall be deducted by additional 10 % of fixed monthly rental charges of that month bill. Note: Any maintenance shutdown shall be pre-planned & pre-approved by the EIC	We understand that 100% equipment availability means, availability of 2 operational Compressors for all times; please confirm. We request you to kindly elaborate the provision under the clause 13.3 & 13.4 by giving example for better understanding. Also, please explain the calculation for downtime.	2 no. of compressor shall be available 100% at any point of time for running and 1 no. standby compressor shall be made available 100% of time. Clause 13.3 - is for 98% of availability (i.e.2% non availability). And Clause 13.4 is for beyond 6 hours after 2% non availability .	Bidder understood that the 100% availability shall be considered only when two compressors are available at all time. Please confirm our understanding. We propose that the shutdown of the standby compressor shall not be considered to evaluate the availability of the Equipment.	Acceptable. However, as per contract mobilization of all the compressor shall be fulfilled by the contractor.
2	Clause No. 5.2.1.10 Scope of Work Document No. P167-SOW-M001 Rev. TA	Pg 12 of 38	Equipment specification: It is preferred that the noise level from the gas compressor package (Driver+ Driver equipment +Auxiliary) shall not exceed 88 dBA when measured at 1m distance from the skid in any direction.	We hereby clarify that since the required compressors are reciprocating type, the noise level less than 88 dBA is not possible technically. However, in order to provide smooth operations throughout we will be providing ear plugs/mufflers.	Since compressor is coming near the residential area, contractor shall do suitable arrangement for 88 dBA when measured at 1m distance from the compressor shed in any direction.	We propose that we shall take adequate measures for control of noise levels from its own source within the premises so as to maintain ambient air quality standard in respect of noise less than 75dBA during day time and 70dBA during night time. Day time is reckoned in between 6 am 10Pm and night time is reckoned within 10 pm to 6 am.	Bidder's proposal is acceptable within compressor process area.
3	Technical Volume II of II.	Entire Volume II of II	Process Scope of Work: (Document No. P167-SOW-T001 Rev.TA) Process Design Basis: (Document No. P167-DEB-T001 Rev. TA) Scope of work for Civil, Structural& Architectural: (Document No. P167-SOW-C001 Rev.TA) Scope of Work for Piping & other associated Utility: (Document No. P167-SOW-P001) Piping Design Basis: (Document No. P167-DB-P001 Rev.TA)	It is proposed that these standard specifications may not be insisted as this will require more lead time in mobilization as well as increase the cost. It is pertinent to mention that these standards are normally followed for compressor plant life of 25 Years or so. We submit that contract is on BOO basis for duration of 3-5 years only. Contractor's standard procedure may be accepted.	Bidder's understanding is incorrect. Bidder to comply the requirements of the provided SCOPE of work & design basis. However contractor shall submit the required compressor documents for review & approval	We humbly reiterate and propose that these standard specifications may not be insisted as this will require more lead time in mobilization as well as increase the cost. It is pertinent to mention that these standards are normally followed for compressor plant life of 25 Years or so. We submit that contract is on BOO basis for duration of 3-5 years only. Contractor's standard procedure may be accepted.	Documents are given to for ease of installation & mobilization. However, bidder may propose alternative for our review after award.
4	8 BIDDER EVALUATION CRITERIA (BEC) 8.1 TECHNICAL CRITERIA: 8.1.4	10	The compressor package (Compressor as well the prime mover) should have residual life not less than 7 years to 10 years and the suitability & wellness for operation purpose of compressor package should be certified by a Chartered Engineer (to be hired by the bidder)	Companies like ONGC asks certification from Compressors & Prime Movers OEMs/Packager or their service partner for residual life of the equipments since there are lot of technical data requirements to calculate the residual life. We request AGCL to incorporate the requirement of Residual Life Certification from OEM instead of Chartered Engineer	The residual life certification shall be from OEM and certificate shall be attested by Chartered engineer with legal stamp	We propose that the standard clause as per industry practice for the certification of residual life shall be considered ie. The residual life shall be certified by the Chartered Engineer . The provision of document from the OEM is not possible. In addition, we shall provide the CE certificate duly reviewed and verified by TPI. We insist to re-ammend the clause as original by AGCL.	The residual life of the compressor package shall be certified either by OEM or Chartered Engineer as suitable to the contractor. However, for the residual life certificate provided by OEM shall be attested by Chartered engineer with legal stamp.
5	5.2.1 Equipment Specification Volume II of II	15 of 1032	The gas engine shall meet the requirements specified in relevant ISO/API standards. Fuel for the gas engine shall be the same of process gas which is being compressed and shall be provided by Owner/EPMC as free supply up to minimum guaranteed fuel quantity, however, the cost of fuel gas over and above the minimum guaranteed quantity shall be borne by the contractor. Facilities for tapping the process gas for the purpose of fuel for gas engine shall be arranged by the contractor within the gas compressor package skid Along with latest standard metering instrument.	Amendment	The gas engine shall meet the requirements specified in relevant ISO/API standards. Fuel for the gas engine shall be the same of process gas which is being compressed and shall be provided by Owner/EPMC, however the cost of fuel gas shall be borne by the contractor. Facilities for tapping the process gas for the purpose of fuel for gas engine shall be arranged by the contractor within the gas compressor package skid along with latest standard metering instrument.	We propose the fuel gas shall be supplied free of cost up to the rated consumption indicated by the bidder. The contractor has to make necessary provision for fuel gas conditioning with adequate process design as per requirement. AGCL shall provide the fuel gas free of charge upto the rated capacity. For Evaluation purpose AGCL may incorporate Fuel gas charges on per day basis in the price bid. We have attached a sample revised Price bid format for reference purpose, provide the fixed price for the entire project duration. Alternately, Company may compensate for the escalation/ reduction in gas price during the period of the contract. This shall prevent the cost implication which could be due to the speculation of fuel prices for 3-5 years for Price Bid evaluation	Contractor shall borne the price of fuel gas as per corrigendum. Contractor shall consider Rs 1240/MMBTU cost of natural gas as base price for building bidding cost. AGCL will subtract the fuel charges from the invoice or monthly bill issued by the contractor. The fuel charges shall be assumed by considering the Base price (Rs 1240/MMBTU) X metered fuel gas (MMBTU) and Bidder shall quote variable compression charges including the fuel charges.
6	Vol II of II Section A Cl. 3 Remark f	4 of 38	The Compressor package shall have all the required utilities such as, instrument air, fuel gas conditioning skid etc.	Contacter intends to use fuel gas for instrument control as well as dead start	Acceptable		

7	Vol II of II Section A Cl. 3 Remark f	4 of 38	Providing adequate firefighting equipment viz. Fire extinguishers, sand buckets, portable trolleys etc. Water sprinkler system (Manually operated) is to be provided inside the compressor shed as per OISD-STD-189. Fire water shall be made available to the contractor by the Owner to hook up with compressor fire water line as and when ready. Meanwhile, contractor shall make arrangement of compressor fire water supply.	Contractor assumes that Owner supplied fire water shall become available within one month of commissioning of first compressor. Contractor further assumes that the fire water shall be pressurised to meet OISD requirements and Contractor shall only provide the fire water network/equipment without any pump. Contractor proposes to use Fire tender in the interim period.	Owner supplied fire water shall be made available within two months of commissioning of first compressor.
8	Vol II of II Section A Cl. 4 d	6 of 38	Compressor package shall be designed, constructed and operated so as to meet the requirements of applicable safety codes / standards, Petroleum & Natural Gas Regulatory Board (PNGRB), Oil Industry Safety Directorate (OISD) of India – Standards, national / International codes / practices and other statutory code requirements etc.	Contractor assumes that the gas at the suction header will meet the PNGRB requirement and no further gas processing is required to meet PNGRB requirements.	Bidder understanding is correct. However, bidder shall condition the fuel gas as per the compressor package requirement.
9	Vol II of II Section A Cl. 3 Remark f	7 of 38	Equipment Availability on monthly basis shall be more than 98% (since 2 + 1 configuration selected) on available flowrate of 0.25 MMSCMD to 0.5 MMSCMD. % Availability = [(Total Hours - (Unplanned downtime + planned downtime)] X 100 / Total Hours	Contractor understands that availability shall be calculated based on nominated volume and dispatched volume. Owner to confirm and advise the formula since the formula given below is based hours not flow volume. If, however, the availability is to be calculated based on hours Owner to confirm that Contractor shall not be penalised for reduced dispatch volume as long as compressors are available to run. Also, Owner to confirm that downtime of standby equipment shall not be considered for system downtime calculation.	Bidder understanding is incorrect. Refer Sr. no. 1. Compressors shall be suitable to run on flowrate from 0.25 MMSCMD to 0.5 MMSCMD
10	Vol II of II Section A Cl. 4 v	8 of 38	All costs for mobilization (transportation, supply, installation, commissioning), operation & maintenance, demobilization shall be included in Contract price. After the termination of contract, the land shall be handed over back in condition as received during start of the contract from the Owner/EPMC.	Owner to clarify if the Contractor is expected to undo all the civil work also, i.e. PCC, RCC piling or only remove contractor supplied equipment and blind the flanges used for hook up etc.	Contractor to undo all the civil works, like dismantling of PCC, RCC at all depths below Plinth & at all heights above plinth, structural steel works, GI Sheets etc. including disposal of unserviceable material anywhere outside the plant boundary as specified & directed by Engineer in charge (Entire cost shall be borne by contractor)
11	Vol II of II Section A Cl. 4 ee	9 of 38	In view of the urgency of the project, equipment offered should be available in India and the necessary proof in the form of CE certificate/TPI certificate clearly indicating the current location shall be provided along with the bid	In view of the urgency of the project, Contractor has sourced suitable equipment in US. Contractor will provide third party certificate to confirm the availability.	ok noted
12	Vol II of II Section A Cl. 5.2.1.14	12 of 38	As a minimum, the gas Engine shall comprise of the following: • Engine air intake system • Engine ignition system • Compressed air start system for engine (suitable for black starting of gas engine) and associated facilities for compressed air start system.	Contractor is evaluating the possibility of using instrument gas, tapped from the suction for black start as well as inst control.	Acceptable
13	Vol II of II Section A Cl. 5.2.2	13 of 38	ASSOCIATED ITEMS OF COMPRESSOR PACKAGE: • All associated electrical, instrumentation, inter-connecting piping, air cooled heat exchangers, separator(s) / knock-out drums / scrubbers shall meet the technical requirements specified in respective electrical, instrumentation, piping & static equipment section(s) of the tender document. • Contractor shall make his own provision for instrument air with an electric motor driven air compressor, receiver and air dryer system. • Providing adequate firefighting equipment viz. Fire extinguishers, sand buckets, portable trolleys etc. Water sprinkler system (Manually operated) is to be provided inside the compressor shed as per OISD-STD-189. Fire water shall be made available to the contractor by the Owner to hook up with compressor fire water line as and when ready. Meanwhile, contractor shall make arrangement of compressor fire water supply. • Items not covered above or in the tender document, shall meet supplier's standard & field proven design requirements.	Contractor is evaluating the possibility of using instrument gas, tapped from the suction for black start as well as inst control.	Acceptable. Vendor to evaluate & give confirmation.
14	Vol II of II Section A Cl. 5.3 c	14 of 38	All Civil, structural system including foundations, cabins/Compressor sheds, access, cable trenches, drainage system etc. required for installation & operation of compressor system including ancillary systems, Utility systems, firefighting system as required, shall be designed, procured, erected / constructed by the contractor	Contractor is considering usage of suitably designed portable cabins.	ok noted only for the cabins.
15	Vol II of II Section A Cl. 5.5 n	16 of 38	Contractor shall be responsible for all kind of works in the local control room i.e. installation of contractor supplied panels/cabinets, MCT frame/blocks, cable laying, cable tray/ conduit erection/installation, glanding and termination of cables, loop checking, pre-commissioning checks and final commissioning.	Contractor is considering usage of suitably designed portable cabins for local control room purpose. Owner to clarify if there is any other local control room provided by Owner.	As of now there is no local control room. Bidder shall arrange portable cabin for Local control room.
16	Vol II of II Section A Cl. 5.5	16 of 38	All erection and installation material like cable glands, cable lugs, connectors, cable supports, nuts, bolts and other required hardware shall be supplied by the Contractor. Cabling work shall include cable laying, end terminations, clamping, tagging etc. The Contractor's scope of work encompasses the following: • Providing, laying & termination of LT cable of required sizes & core from designated MCC Panel to cater various loads of Motor/Drives. • Supply & installation of lighting equipment's for compressor unit, field cabin, store rooms etc. • Providing area lighting which includes supply & installation of pole light as per area classification. • Installation of Earth Pits / Earth Grid as per Standard Engineering Practices and IS:3043. • Installation of adequate nos. of emergency lights. This will keep the area illuminated during power failure.	Contractor assumes that the referred MCC is as shown in "TYPICAL SINGLE LINE DIAGRAM" drawing number on page 1031 of 1032 of Vol II of II and spares breakers shall be available for use by Contractor for electrical loads. Contractor assumes that the area lighting emergency lighting and earth pit / earth grid requirement is limited to the area within the battery limit as shown in Annexure 6	As of now there is no MCC room. Bidder shall make their own temporary power arrangement. When Power supply is made available by AGCL then spare breaker shall be provided to the contractor. Confirmed.
17	Vol II of II Section A Cl. 7 vi	18 of 38	All Power arrangement till owner's permanent power installation is completed. Also all Back up power arrangement is in Contractor scope.	Contractor assumes that Owner supplied power shall become available within one month of commissioning of first compressor. Contractor proposes to use portable DG till such time	Owner supplied power shall become available within two month of commissioning of first compressor.
18	Vol II of II Section A Cl. 7 viii	19 of 38	Fire water for Compressor area till Owner fire water pump and ring main completed.	Contractor assumes that Owner supplied fire water shall become available within one month of commissioning of first compressor. Contractor further assumes that the fire water shall be pressurised to meet OISD requirements and Contractor shall only provide the fire water network/equipment without any pump. Contractor proposes to use Fire Tender in the interim period.	Refer Sr. No. 7
19	Vol II of II Section A Cl. 8 vi	19 of 38	Fire water required for compressor fire water system. Temporary fire water arrangement shall be provided by the Contractor at the starting phase of the contract	Contractor assumes that Owner supplied fire water shall become available within one month of commissioning of first compressor. Contractor further assumes that the fire water shall be pressurised to meet OISD requirements and Contractor shall only provide the fire water network/equipment without any pump. Contractor proposes to use Fire truck in the interim period.	Refer Sr. No. 7

20	Vol II of II Section E Cl. 4.0		<p>BRIEF SCOPE OF WORK Vendor shall be completely responsible to supply and installation of below mentioned materials to be within the Air Compressor Package Equipment along with required accessories and services for satisfying the functional / operational requirements stated in this Scope of Work and its Attachments: (Herein after referred as Requisition). Vendor shall have complete responsibility for all the items supplied by him including his sub-Vendors if any. The Vendor's scope of work includes, but not limited to:</p> <ol style="list-style-type: none"> 1. Supply and installation of Field Instruments (ie. PT, TT, LT, TG, PG, DPT, SDV Actuator, etc. as mentioned in the PFD) in the Compressor Package; 2. Supply and Installation of Fuel Meter and USM Meter on the Skid along with Flow Computer to be mounted in the Control Room; 3. Supply and Installation of the Compressor Package, Flow Computer to be mounted in the Control Room; 4. Supply and Installation of the Fire and Gas Detectors (ie. Point Type and Open Path Type Gas Detectors, Flame Detectors, Heat Detectors, Smoke Detectors etc.) along with the PLC based F&G System for the compressor area to be mounted in the control room; 5. Supply and Installation of the CCTV System inclusive of Weather Proof & Explosion Proof PTZ and Fixed Type IP Cameras, NVR Recorder with 30 Days Backup; 6. Supply and Installation of the Server Rack along with Supply and Installation of Managed Ethernet Switches, KVM Switches and CCTV Workstation. 7. Supply and Installation of the New PA Communication System consisting of IP Telephones and Telephone Cables with RJ45 Connectors including integration with the existing IP EPABX System 8. Supply and Installation of Vibration Monitoring System for the Compressor Package including vibration probes and vibration monitors for motor at field. Vibration probes shall be terminated suitably by Tenderer in Vibration Monitoring Panels near the motor. Vibration Monitors shall provide local display of parameters. 4-20mAmps output signal from these monitors shall be taken to Compressor PLC/DCS and shall communicate the same to Plant DCS over communication bus. 9. Supply and Installation of Skid Edge Weather Proof & Explosion Proof Junction Boxes along with Cable Glands, Termination Blocks and Accessories; 10. Supply, laying, Termination and Testing of Instrumentation Cables from Package installed 	<p>Contractor's assumes "air" is a type and it is Gas Compressor. Further comments are as Under. Owner to confirm.</p> <ol style="list-style-type: none"> 1. No comments 2. As per battery limit defined in Annexure 6, these are outside contractor's scope. 3. As per battery limit defined in Annexure 6, flow computer is outside contractor's scope. 4. Contractor understands that this required is for entire compressor station and compressor skids under the scope of contractor do not require separate fire and gas detection system 5. Contractor understands that this required is for entire compressor station and compressor skids under the scope of contractor do not require separate CCTV system 6. Same as point 5 above 7. Same as point 5 above 8. No comments 9. No comments 10. No comments 11. Linked to point 5 above 12. Contractor understands that its responsibility will be limited to providing suitable data ports in the unit control panels from when Owner can import data and map it into its SCADA System 13. Unit control panels may not require these features. Will be discussed with Owners after award and finalized. 	<p>2. Refer corrigendum Fuel meter is in the scope of contractor and USM skid along with Flow computer is not in the scope of contractor. 3. ok noted. 4. tender condition shall prevail. 5. tender condition shall prevail. 6. tender condition shall prevail. 7. tender condition shall prevail. 11. tender condition shall prevail. 12. Yes, the Bidder's understanding is correct. 13. OK Noted</p>
21	Vol II of II Section E Cl. 5.0		<p>Bidder's scope of work includes following activities related to the Brief Scope of Work mentioned in Clause 4.0:</p> <ol style="list-style-type: none"> 1. Bidder shall be responsible for the Complete Detailed Engineering including the Engineering Documents which shall be submitted for review and approval of AGCU/Consultant, Procurement and Construction of Field Instruments (ie. PT, TT, LT, TG, PG, DPT, SDV Actuator etc. as mentioned in the PFD) in the Compressor Package 2. Bidder shall be responsible for the Complete Detailed Engineering including the Engineering Documents which shall be submitted for review and approval of AGCU/Consultant, Procurement and Construction of the Compressor Package PLC along with Flow Computer to be mounted in the Control Room; 3. Bidder shall be responsible for the Complete Detailed Engineering including the Engineering Documents which shall be submitted for review and approval of AGCU/Consultant, Procurement and Construction of the Fire and Gas Detectors (ie. Point Type and Open Path Type Gas Detectors, Flame Detectors, Heat Detectors, Smoke Detectors etc.) along with the PLC based F&G System for the compressor area to be mounted in the control room; 4. Bidder shall be responsible for the Complete Detailed Engineering including the Engineering Documents which shall be submitted for review and approval of AGCU/Consultant, Procurement and Construction of the CCTV System inclusive of Weather Proof PTZ and Fixed Type IP Cameras, NVR Recorder with 30 Days Backup; 5. Bidder shall be responsible for the Complete Detailed Engineering including the Engineering Documents which shall be submitted for review and approval of AGCU/Consultant, Procurement and Construction of the Server Rack along with Supply and Installation of Managed Ethernet Switches, KVM Switches and CCTV Workstation. 6. Bidder shall be responsible for the Complete Detailed Engineering including the Engineering Documents which shall be submitted for review and approval of AGCU/Consultant, Procurement and Construction of Vibration Monitoring System for the Compressor Package including Vibration probes and vibration monitors for motor at field. Vibration probes shall be terminated suitably by Tenderer in Vibration Monitoring Panels near the motor. Vibration Monitors shall provide local display of parameters. 4-20mAmps output signal from these monitors shall be taken to upstream VFD for monitoring and control. VFD shall communicate the same to Plant DCS over communication bus. 	<p>Bidder's understanding is that bidder is responsible for detailed engineering of the equipment covered within the battery limit only and accordingly, engineering documents related to only all such equipment is expected from bidder.</p> <p>Specific comments to points are as below</p> <ol style="list-style-type: none"> 1. As mentioned above 2. Flow computer is outside battery limit 3. As mentioned above 4. As mentioned above 5. As mentioned above 6. Vibration monitoring and control design shall be fit for purpose and without local display. No VFD is envisaged. 7. No comment 8. No comment 9. As mentioned above 10. No comment 11. As mentioned above 12. Skid GAD for equipment supplied by bidder shall be provided 13. No comment 14. No comment 15. As mentioned above 	<ol style="list-style-type: none"> 1) Yes, the Bidder's understanding is correct. 2) Flow Computer shall be part of this package if there is a requirement of USM Meter. 3) Bidder's scope shall be limited to the Fire & Gas Detection of the Compressor Area Only as required, F&G Detection for other facilities and Compressor Piping Area is not in the scope of the bidder. 4) Bidder's scope shall be limited to CCTV- (1 No. Fixed Type and 1 No. PTZ Type- Explosion Proof) for the Compressor Area Only, CCTV for other facilities and Compressor Piping Area is not in the scope of the bidder. 5) Acceptable. 6) Acceptable. 9) Supply of CAT-6/UTP Cables for CCTV Limited to Compressor Area shall be in Bidder's Scope Approximately 150 Meters for each Camera. 11) Yes, Bidder's understanding is correct. 12) OK Noted. 15) Yes, Bidder's understanding is correct.
22	Vol II of II Section E Cl. 6.0		<p>DOCUMENTS REQUIRED FOR REVIEW AND APPROVAL Vendor shall submit the following documents for Client's Review and Approval:</p>	<p>Upon award, bidder shall discuss the requirements for engineering documentation and their category i.e. approval and/or information and submit the same for the equipment within battery limit.</p>	<p>ok noted.</p>
23	Vol II of II Section E Cl. 3.0	5 of 31	<p>BASIS OF DESIGN The brief project details for Development of Compressor Station at Rupkheila (Assam) are as follows: AGCL wants to Develop a Compressor Station at Rupkheila. The preliminary proposed facilities for the Compressor Station are:</p> <ul style="list-style-type: none"> • Field Instrumentation along with PLC System for Air/Gas Compressor (1W + 1S) Package • Fire and Gas Detection System • CCTV System. • USM Meter and Fuel Meters along with Flow Computers. • Vibration Monitoring System (Make- Progiost, Woodward, Bently Nevada) • Cable and Cabling from Field Instruments, Cameras and Detectors to Compressor PLC, NVR Server, F&G PLC, ESD PLC. 	<p>Bidder understand that F&G detection system, CCTV system, USM meters, Flow computers are outside battery limit and therefore not in bidders scope</p> <p>Vibration monitoring shall be fit for purpose and may not be from manufacturers mentioned herein</p>	<p>F&G detection system, CCTV system is in the scope of contractor and USM skid along with Flow computer is not in the scope of contractor.</p> <p>Ok Noted.</p>
24	Vol II of II Section E Cl. 5.0	7 of 31	<p>The project shall broadly comprise of following instruments and systems:</p> <ol style="list-style-type: none"> 1. Field Instruments for Compressor Package; 2. SDV/Pneumatic Operated On/Off Valve; 3. Fire, Smoke & Gas Detectors and Equipment; 4. Fire Alarm System; 5. Vibration Monitoring System; 6. Compressor DCS/PLC along with Alarm Annunciator; 7. USM Flow Meter and Fuel Meter along with Flow Computer 8. F&G PLC; 9. Fiber Optic Cable; 10. CCTV; 11. Instrumentation Cables and Cabling from Field Instruments to Skid Edge Junction Boxes. 12. CAT-6/UTP Cabling from CCTV System to Managed Ethernet Switch; 13. Junction Boxes; 	<p>Bidder understand that items 3, 4, 7, 8, 9, 10 and 12 are outside battery limit and not in bidders scope.</p>	<p>Item no. 3, 4, 8,10 and 12 - in contractor scope. Item no. 7 & 9 outside contractor scope.</p>
25	Vol II of II Section E Cl. 3.0		<p>SCOPE The electrical scope of work shall include but not limited to the following:</p> <ol style="list-style-type: none"> 1. Contractor shall carry Electrical load calculation and shall make arrangement of reliable power supply. 2. Supply, laying & termination and testing of power & control cable(s) of required sizes & cores shall be the responsibility of the Contractor. 3. All erection and installation material like cable glands, cable lugs, connectors, cable supports, nuts, bolts and other required hardware shall be supplied by the Contractor. Cabling work shall include cable laying, end terminations, clamping, tagging etc. 	<p>Bidder's understanding is that the electrical power shall be provided by owners (Section A Clause 5.6 a) as per the electrical load calculation provided by bidder.</p>	<p>Bidder understanding is correct. However, Bidder shall make there own temporary power arrangement at the start of the project until AGCL work is completed.</p>

26			<p>The Contractor's scope of work encompasses the following:</p> <ul style="list-style-type: none"> • Providing, laying & termination of LT cable of required sizes & core from designated MCC Panel to cater various loads of Motor/Drives. • Supply & installation of lighting equipments for compressor unit, field cabin, store rooms etc. • Providing area lighting which includes supply & installation of pole light as per area classification. • Installation of Earth Pits / Earth Grid as per Standard Engineering Practices and IS:3043. • Earthing of the Motor / Distribution Panel and other Electrical Fittings / Fixtures, lighting poles including provision of equipments/foundations. • Equipment/body/foundation earthing should be done at two sides opposite to each other. • Providing rubber mattress of ISO standard, wherever required • Health monitoring, periodic/predictive/breakdown maintenance along with supply of requisite spares/consumables. • Availability of spares along with skilled/experienced manpower. • UPS supply, if required to be arranged by the contractor. • Installation of adequate nos. of emergency lights. This will keep the area illuminated during power failure. <p>4. The contractor shall ensure that all electrical equipments / apparatus / instruments/fittings provided & installed are suitable as per applicable National / International standards and statutory regulations with respect to Area Classification.</p> <p>5. Supply & installation of complete earthing system for the new equipment including supply of materials. Grounding and bonding of all equipment is included in the scope of work.</p> <p>6. Main earth grid of bare 50X6 mm, GI strip will be used below ground. Above ground green /yellow PVC insulated copper conductors shall be used.GI Earth rod of 50 mm diameter 3m long shall be used. LV motors, cable trays, metallic equipment, enclosures etc. shall be connected to the main earth grid with 35 mm² PVC insulated copper conductors. Joint is not allowed in cable for grounding/earthing purpose.</p> <p>7. All the equipment shall be earthed from two points. —Double earthing system.</p> <p>8. All equipment shall be grounded and bonded in accordance with the recommendations of IS: 3043 /IEEE-142 — Recommended practice for grounding of Industrial & Commercial power system.</p>	<p>Bidders understanding is as follows;</p> <p>Area lighting is for the entire facility and bidder's scope is limited with Battery limit as per Annexure 6</p> <p>Emergency lighting is for the entire facility and bidder's scope is limited with Battery limit as per Annexure 6</p> <p>Main earth grid shall be installed by Owners</p>	ok noted		
27			Note 6 : Future scope	In battery limit schematic drawing, fuel gas conditioning skid is shown in Bidders scope whereas Note 6 suggests "future scope". Owner to confirm	Refer corrigendum No. 1 and ignore Note 6.		
28	Annexure-1 Guarantee Parameters Volume II of II		Note-1: The cost of fuel gas shall be borne by the contractor. The cost of fuel gas shall be as per the prevailing market rate of gas in the Assam state. The actual fuel cost will be calculated based on meter installed on the fuel line. The cost of the meter will be borne by the contractor.	It is difficult for the bidder to forecast gas rate in Assam state for the contract period. Bidder requests Owner to fix a range of fuel gas cost to be charged for bidder the bidder to do its costing.	Refer Sr. No. 5.		
29	Item wise BOQ Sl no 1.05	1 of 1	Variable Compression charges per SCM 273.75 MMSCM Note: Variable charges on actual gas compressed by the compressor packages	<p>1. As mentioned in the tender document (also in the BOQ at Slr 1), bidder's scope is "Design / selection, supply, transportation, installation (including all civil, structural, piping and electrical & instrumentation works) and hook up, commissioning, operation and maintenance of 3 no. of compressors (2 Working + 1 Standby) of capacity 0.25 MMSCMD each.....". The total quantity of Gas compressed using two compressors of .25 MMSCMD each for three years would be 547.5 MMSCM whereas quantity mentioned in column 4 is 273.75 MMSCM. Request owner to clarify which quantity is to be considered.</p> <p>2. What amount will be paid against variable compression charges per SCM if, on a particular day gas for compression is not available for reasons beyond bidder's control. Bidder request owner to specify guaranteed minimum gas quantity available for compression.</p>	1. Available flowrate shall vary from 0.25 MMSCMD to 0.5 MMSCMD depending upon the gas consumption. Hence, quantity is decided 273.75 MMSCM considering the minimum flowrate.		
30	Vo II of II S.2.1 Equipment specification Sub clause 14	12 of 38	<p>As a minimum, the gas Engine shall comprise of the following:</p> <ul style="list-style-type: none"> • Engine air intake system • Engine ignition system • Compressed air start system for engine (suitable for black starting of gas engine) and associated facilities for compressed air start system. • Engine cooling system (air cooled heat exchanger based). The fan shaft of the air cooler shall drive the power from Gas Engine itself. • Fuel gas measurement system • Engine exhaust system • Gas conditioning • Gas pressure boosting facility (if required) • Acoustic enclosure • Ventilation system for Enclosure • Lube oil system • Any other associated mechanical, electrical and instrumentation items as required. 	Bidder is not considering Acoustic enclosure due to paucity of time to meet the delivery requirements. Accordingly, ventilation system shall also be deleted from scope	ok noted. However refer Sr. no. 2.		