



Bid Number/बोली क्रमांक (बिड संख्या): GEM/2024/B/4511595 Dated/दिनांक : 20-01-2024

Bid Document/ बिड दस्तावेज़

Bid C	Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	14-02-2024 13:00:00	
Bid Opening Date/Time/बिंड खुलने की तारीख/समय	14-02-2024 13:30:00	
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	90 (Days)	
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Petroleum And Natural Gas	
Department Name/विभाग का नाम	Oil India Limited	
Organisation Name/संगठन का नाम	Oil India Limited	
Office Name/कार्यालय का नाम	Oil India Limited	
Total Quantity/कुल मात्रा	16	
ltem Category/मद केटेगरी	NATURAL GAS ENGINE DRIVEN SILENT (ACOUSTIC) GENERATING SET OF CAPACITY 25 KVA (Q3)	
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No	
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No	
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria, Bidder Turnover, Certificate (Requested in ATC), OEM Authorization Certificate, Additional Doc 1 (Requested in ATC), Additional Doc 2 (Requested in ATC), Additional Doc 3 (Requested in ATC), Additional Doc 4 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer	
Bid to RA enabled/बिंड से रिवर्स नीलामी सक्रिय किया	No	
Type of Bid/बिंड का प्रकार	Two Packet Bid	
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	5 Days	
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	Yes	
Inspection to be carried out by Buyers own empanelled agency	Yes	

Bid Details/बिड विवरण		
Type Of Inspection	Pre Dispatch	
Name of the Empanelled Inspection Agency/ Authority	Board of Officers	
Payment Timelines	Payments shall be made to the Seller within 21 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)	
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation	
Financial Document Required/वितीय दस्तावेज की आवश्यकता है।	Yes	

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाईजरी बैंक	ICICI	
EMD Amount/ईएमडी राशि	423876	

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	ICICI
ePBG Percentage(%)/ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months)/ईपीबीजी की अपेक्षित अवधि (महीने).	26

- (a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।
- (b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी:

GM - Materials (HoD)

Materials Department, Oil India Limited, Duliajan, Dibrugarh, Assam, PIN - 786602. (G C Sarma)

Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes

- 1. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.
- OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.
- 2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023 OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

3. Inspection of Stores by Nominated Inspection Authority / Agency of buyer or their authorized representatives

An independent third party Professional Inspection Body can help buyer in mitigating buyer's risk with pre-dispatch/post-dispatch inspection in order to ensure that equipment, components, solutions and documentation conform to contractual requirements. The buyer has a right to inspect goods in reasonable manner and within reasonable time at any reasonable place as indicated in contract. Inspection Fee/ Charges (as pre-greed between buyer and Inspection Agency) would be borne by the buyer as per their internal arrangement but may be recovered from the seller if the consignment failed to conform to contractual specification and got rejected by the Inspection Officer .If so requested and accepted by the seller , initially seller may pay for inspection charges as applicable and get the same reimbursed from buyer if consignment accepted by the Inspecting Officer . For reimbursement seller has to submit proof of payment to Inspection Agency.

Seller/OEM shall send a notice in writing / e-mail to the Inspecting officer / inspection agency specifying the place of inspection as per contract and the Inspecting officer shall on receipt of such notice notify to the seller the date and time when the stores would be inspected. The seller shall, at his own expenses, afford to the Inspecting officer, all reasonable facilities as may be necessary for satisfying himself that the stores are being and or have been manufactured in accordance with the technical particulars governing the supply. The decision of the purchaser representative /inspection authority regarding acceptance / rejection of consignment shall be final and binding on the seller.

The Seller shall provide, without any extra charge, all materials, tools, labour and assistance of every kind which

the Inspecting officer may demand of him for any test, and examination, other than special or independent test, which he shall require to be made on the seller's premises and the seller shall bear and pay all costs attendant thereon.

The seller shall also provide and deliver store / sample from consignment under inspection free of charge at any such place other than his premises as the Inspecting officer may specify for acceptance tests for which seller/OEM does not have the facilities or for special/ independent tests.

In the event of rejection of stores or any part thereof by the Inspecting officer basis testing outside owing to lack of test facility at sellers premises, the seller shall, on demand, pay to the buyer the costs incurred in the inspection and/or test. Cost of test shall be assessed at the rate charged by the Laboratory to private persons for similar work.

Inspector shall have the right to put all the stores or materials forming part of the same or any part thereof to such tests as he may like fit and proper as per QAP/governing specification. The seller shall not be entitled to object on any ground whatsoever to the method of testing adopted by the Inspecting officer.

Unless otherwise provided for in the contract, the quantity of the stores or materials expended in test will be borne by seller.

Inspecting officer is the Final Authority to Certify Performance / accept the consignment. The Inspecting officer's decision as regards the rejection shall be final and binding on the seller.

The seller shall if so required at his own expense shall mark or permit the Inspecting officer to mark all the approved stores with a recognised Government or purchaser's mark.

NATURAL GAS ENGINE DRIVEN SILENT (ACOUSTIC) GENERATING SET OF CAPACITY 25 KVA (16 pieces)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	Download
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Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	80%
Min Cost Allocation for ICT as a % of product cost	5%
Number of days allowed for ICT after site readiness communication to seller	90 Days/दिन

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Krishna Mohan Kumar	786602,Oil India Limited, Duliajan, Assam	16	270

Buyer added Bid Specific Additional Scope of Work

S.No.क्र.सं	Document Title	Description	Applicable/रिवर्स प्रभार के अनुसार जीएसटी i.r.o. Items
1	Technical Specification & BRC <u>View</u>	Technical Specification & BRC	NATURAL GAS ENGINE DRIVEN SILENT (ACOUSTIC) GENERATING SET OF CAPACITY 25 KVA(16)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. Generic

Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

3. Generic

Buyer Organization specific Integrity Pact shall have to be complied by all bidders. Bidders shall have to upload scanned copy of signed integrity pact as per Buyer organizations policy along with bid. Click here to view the file

4. Generic

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

5. Generic

Manufacturer Authorization: Wherever Authorised Distributors/service providers are submitting the

bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

6. Generic

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

7. Generic

The buyer organization is an institution eligible for concessional rates of GST as notified by the Government of India. The goods for which bids have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. A certificate to this effect will be issued by Buyer to the Seller after award of the Contract. Sellers are requested to submit their bids after accounting for the Concessional rate of GST.

Applicable Concessional rate of GST:

12 % Notification No.and date : 8/2022 - Integrated Tax (Rate) dated 13/07/2022

8. Generic

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

9. Generic

Whereever Essentiality Certificate is applicable (PEL/ML), successful bidder should provide Proforma Invoice for processeing for EC application and material should be dispatche after receiving of EC rom DGH. In view of the same, an ATC may be incorporated in GeM, viz, "BIDDER/OEM must provide Proforma Invoice for processeing for EC application within

225

days from date of issue of GeM Contract and material should be dispatche after receiving of EC rom DGH."

10. Scope of Supply

Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

11. Purchase Preference (Centre)

Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 100% of total value.

12. Purchase Preference (Centre)

Purchase Preference linked with Local Content (PP-LC) Policy:

The bid clause regarding "Preference to Make In India products" stands modified in this bid and shall be governed by the PPLC Policy No. FP-20013/2/2017-FP-PNG dated 17.11.2020 issued by MoP&NG as

amended up to date. Accordingly, bidders with Local Content less than or equal to 20% will be treated as "Non Local Supplier". The prescribed LC shall be applicable on the date of Bid opening. Sanctions on the bidders for false / wrong declaration or not fulfilling the Local Content requirement shall be as per the PPLC policy. Further following additional provisions are added in the certification and verification of local content provision of the Preference to Make in India clause:

- i. In case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practicing cost accountant or practicing chartered accountant giving the percentage of local content is also acceptable.
- ii. Along with Each Invoice: The local content certificate (issued by statutory auditor on behalf of procuring company) shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.
- iii. The bidder shall submit an undertaking from the authorized signatory of bidder having the Power of Attorney along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.

13. Certificates

The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.

14. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

1.0 ePBG Percentage (%) under "ePBG Detail" above in the tender shall be read as 10% instead of 5%. Accordingly, the bidder/supplier has to submit Performance Security/ePBG/PBG of value 10% of the Total Purchase Order Value, in the event of an order.

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

- 1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
- 2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
- 3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
- 4. Creating BoQ bid for single item.
- 5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
- 6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
- 7. Floating / creation of work contracts as Custom Bids in Services.
- 8. Seeking sample with bid or approval of samples during bid evaluation process.
- 9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
- 10. Seeking experience from specific organization / department / institute only or from foreign / export

experience.

- 11. Creating bid for items from irrelevant categories.
- 12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
- 13. Reference of conditions published on any external site or reference to external documents/clauses.
- 14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---



Conquering Newer Horizons

MATERIALS DEPARTMENT P.O. Duliajan, Dist. Dibrugarh ASSAM, PIN – 786 602, INDIA TEL: (+91) 374 - 2808705

E-Mail: bikramjit_singha@oilindia.in

<u>ANNEXURE – I</u>

TECHNICAL SPECIFICATION

NATURAL GAS ENGINE DRIVEN SILENT (ACOUSTIC) GENERATING SET OF CAPACITY 25 KVA

QUANTITY: 16 NOS.

SL.	SECTION/SUB-	DESCRIPTION		
NO.	SECTION		DESCRIPTION	
1.0	SCOPE OF	1.1	The scope of work includes Supply, Installation and Commissioning of Natural Gas	
	SUPPLY		Engine Driven Generator sets (GEGs) at OIL's Site with field testing and reliability	
			run.	
		1.2	The GEG sets of rating and output specified herein shall be all new and shall be	
			housed inside weather-proof acoustic enclosure. Also, it shall be complete with all	
			accessories including electrical control panel (inside the acoustic enclosure), safety	
		4.2	devices and shall be mounted on oil-field skid for safe lifting and transportation.	
		1.3	Rating and output of Generator Set: 25 kVA (20 kWe), 415 Volts 3 phase, 0.8 pf	
			(lag), 50 Hertz, prime duty as per IS/ISO 8528 (Part 1 to 12, Latest Version) Standard with 10% overload capacity.	
2.0	GENERAL	2.1	The generator set shall be sturdy, rugged, proven and extremely reliable and	
	REQUIREMENTS		durable. The generator set shall be suitable for operation in oil and gas field	
			installations with field gas from the oil and gas field, in solo island mode operation	
			and outdoor deployment.	
		2.2	Electrical loads shall be utilities, induction motors and UPS.	
		2.3	The generator set shall be suitable for frequent moves from site to site.	
		2.4	The components of the complete generator set shall be of such design to	
		2.5	satisfactorily function under all conditions of operation.	
		2.5	The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice. The entire installation shall be such as to	
			cause minimum transmission of noise and vibration to the site.	
		2.6	All equipment and materials to be used in work shall be manufactured in factories	
		2.0	of good repute having excellent track record of quality manufacturing, performance	
			and proper after-sales service.	
		2.7	Bidder shall provide all related components and auxiliaries of generating set as part	
			of the package.	
		2.8	Bidder shall furnish all relevant data of complete package as per ANNEXURE-III	
			(Data Sheet)	
3.0	CODES &	3.1	All equipment in the offer shall conform, but not limited, to the following latest	
	STANDARDS		edition of relevant codes & standards.	
		3.2	ISO 3046/1/ BS5514 or equivalent Indian/ International Standard: Specification for	
			reciprocating internal combustion engines.	
		3.3	IS/ISO 8528 (Part 1 to 12): Reciprocating Internal Combustion Engine Driven	
		2.4	Alternating Current Generating Sets	
		3.4	IS: 10000(Part-iv) (or) (ISO: 3046) (Latest edition): Declaration of power, efficiency,	
		3.5	fuel (NG) and lube oil consumption for gas engine.	
		3.5	IS: 10002: Specification for performance requirement for constant Speed Engines (above 20 kW).	
		3.6	IS: 12065 Noise limit	
		3.7	IS: 13364 Specification of Alternator coupled with IC Engines	
<u> </u>		ا.ر	13. 13304 Specification of Afternator Coupled with it Engines	

	T	I a a	e val			
			5 Vibration			
		3.9 IS: 4691 Enclosure Protection				
			Cooling			
		3.12 In case of bidder's inability to use the mentioned codes and standards, the				
			bidder/manufacturer shall indicate his proposed codes and standards defining in			
		detail for using the same. OIL may review the bidder's proposed codes and				
		standar	standards for approval of the same.			
4.0	SITE CONDITIONS	The ambient co	ndition of the generator se	ets shall be:		
		4.1 Maxim	ium Ambient Temperature	: 45°C		
		4.2 Minim	um Ambient Temperature	: 05°C		
		4.3 Maxim	num Humidity at 21°C	: 100 %		
		4.4 Maxim	num Humidity at 35°C	: 95 %		
			num Humidity at 41°C	: 70 %		
			ium Altitude above sea lev			
5.0	COMPOSITION			gas or wellhead gas sourced from nearby oil field		
	OF FUEL GAS AT			natural gas liquids in the raw gas along with crude		
	SITES & GAS		her troublesome impuritie			
	PURIFICATION	and or	The troublesome impartie			
	romication	5.2 The co	mposition of the gas is bro	adly as under:		
		3.2	inposition of the gas is bro	adiy as dilder.		
		COL	NSTITUTION	Pango by % VOLUME		
			Methane	Range by % VOLUME 85.7 - 93.52		
		a)				
		b)	Ethane	2.45 - 6.55		
		c)	Propane	1.28 - 3.12		
		d)	Nitrogen	0.53 - 1.21		
		e)	Carbon-dioxide	0.01 - 0.57		
		f)	Iso-Butane	0.31 - 0.75		
		g)	N-Butane	0.4 - 1.14		
		h)	Iso-Pentane	0.19 - 0.47		
		i)	N-Pentane	0.17 - 0.38		
		j)	Hexane	0.34 - 1.16		
		k)	Gravity	0.6204 -0.6919		
		l)	Gross Calorific Value	9636.8- 10590.8 Kcal/SCUM		
		m)	Net Calorific Value	8704.3- 9595.4 Kcal/SCUM		
		n)	Moisture content	21.0-120.0LB/MMCFT		
				(336.0-1992.0 KG/MMSCM)		
		NOTE:				
				he range of 85.7 - 93.52% by volume, the bidders		
				its configuration, methane content of field gas to		
				aggressive. The engine shall work trouble free		
				hout having to de-rate on ground of gas quality.		
		The field gas shall be fed through scrubber and at 20-30 PSIG at upstream of gas train.				
		5.3 A gas scrub	bber adequate for full load	operation of the generator set shall be included		
		in the scope of supply in the fuel system of genset.				
6.0	GAS ENGINE AND	6.1 The generator set shall be rated for a prime power duty of capacity 25 KVA (20				
	GENERATOR SET	kWe) at 0.8-PF (lag) with an output of 34.8 amperes (minimum) while generating				
	RATING/	415 Volt AC, 3-phase, 50 Hz power (at 1500 RPM), and the rated output shall be				
	CAPACITY:	available at the generator output terminals with the given gas composition as				
		engine fuel.				
		6.2 The generating set shall meet the latest CPCB norms as per Government of India				
		notifications for Genset run on dedicated Natural Gas (NG).				
				se type and suitable to operate on the given gas		
		composition. It shall be configured to accept aggressive raw natural gas/field gas or well head gas.				
			_	riendly engine control display with metering		
	1		6.4 The engine should have user friendly engine control display with metering,			

	1	
		monitoring, diagnosing and protecting features all integrated with the controller of the engine.
		6.5 Engine and alternator shall bear Name Plate revealing in it details of ratings published by the OEM of the engine and alternator.
		The following clause nos. 6.6 to 6.10 shall be certified by the engine manufacturer:
		(Certificate/ declaration from the Engine Manufacturer to be submitted by the bidder)
		6.6 Engine rating/ output (w.r.t. compression ratio and rpm) and block load capability, pertaining to the engine with the offer.
		6.7 The gas engine shall have in-cylinder design to meet the latest CPCB emission norms.
		6.8 The engine shall be standard design of the original manufacturer designed primarily for generator set application in accordance with ISO 3046/BS5514/ IS/ISO8528 standards and with high tolerance for variable quality of gaseous fuels (field gas)
		standards and with high tolerance for variable quality of gaseous fuels (field gas). 6.9 The engine shall be a four-stroke, spark-ignited, radiator cooled, naturally aspirated/turbocharged in-line engine with mechanical governing/Electronic Engine Control Unit (ECU) controller capable of meeting the rated output and duty of the
		generator set with 1500 RPM as speed, compression ratio not exceeding 12:1 and power of the engine shall be suitable to meet the rated output of the genset. It shall also be capable to operate without any external ventilation system and shall be
		configured to accept aggressive raw natural gas/field gas or well head gas. 6.10 Engine BHP with natural gas calorific value 970BTU/CFT as engine fuel and at 1500 RPM and Compression Ratio not exceeding 12:1.
7.0	ALTERNATOR	(Refer SECTION A for Specification of Electrical Items)
	AND CONTROL PANEL AND	Note: (i) The specification for electrical items in SECTION A shall have over-riding value and
	OTHER	shall be followed for that particular item/work, wherever they differ from
	ELECTRICAL	specifications given in other annexure.
	ITEMS:	(ii) Engine & Alternator shall be supplied with independent lifting hooks/eye bolts for safe Handling
8.0	GAS ENGINE FEATURES, COMPONENTS, AND ACCESSORIES:	The specifications given hereunder are general in nature and shall be subject to the standard practice of the engine manufacturer. However, the ignition and governor with the engine shall be as per the given specification provided under in the respective subsection here under. Bidder/manufacturer shall be responsible for providing gas engine driven generating set as per standard practice with the specified technical requirements suitable for Prime Rated Power (PRP) Operation.
		8.1 STARTING SYSTEM - Electrical start complete with batteries. The engine starting system shall include 12 volts/24 volts DC starting motor(s), starter relay, and automatic reset circuit breaker to protect against butt engagement. Batteries shall be maintenance free, lead acid type/ gel based, mounted near the starting motor. Corrosion resistant or coated steel battery rack shall be provided. Required cables shall be furnished and sized to satisfy circuit requirements.
		8.2 CHARGING SYSTEM – Suitable independent standard battery charging system as per OEM design for charging of batteries as used in above starting of the engine shall be provided.
		8.3 AIR INTAKE SYSTEM - Shall include dry type paper filters element and vacuum indicator for servicing air cleaner as per manufacturer standard. Maximum air intake restrictions with clean and choked filters shall be within prescribed limit of the OEM/ manufacturer recommendation for the particular model of the engine. Air cleaners shall be either medium or heavy as per manufacturer standard for gen set application.
		8.4 LUBRICATION SYSTEM - forced feed pressure lubrication system with lubrication oil filters with replaceable elements as per manufacturer standard. Necessary gear

- driven oil pump for lubricating oil, oil coolers, priming of engine bearing as per manufacturer recommendations. The sump shall have adequate capacity to continue operation up to 500Hrs. /1000 Hrs. without Lube Oil Change.
- 8.5 FUEL SYSTEM fuel system shall comprise isolation valve, gas filter, gas scrubber, gas pressure reducer, solenoid valves, etc. Gas shall be available at around 20-30 psig pressure at gas train inlet. Gas engine shall be suitable to operate at this pressure.
- 8.6 IGNITION SYSTEM- The ignition system shall be a high energy digital, capacitor-discharge system (preferably Altronic CD200) or as per Manufacturer's standard designed for use on small, 1-to-8-cylinder industrial gas engines having the following features:
 - Universal, low-cost, microprocessor-based programmable configuration to select the feature set appropriate to the application:
 - Timing curves vs. RPM or analog signal,
 - Selectable spark energy,
 - o Individual cylinder timing adjustment,
 - Adjustable overspeed trip,
 - Comprehensive diagnostics for troubleshooting
 - Windows[™]-based terminal program for configuration and monitoring,
 - Modbus RTU communications and monitoring
- 8.7 GOVERNOR The governor (electronic/ mechanical) shall be compatible with the ignition system specified in clause no. 8.6 above and capable of isochronous frequency regulation from no load to full rated load. It shall control engine speed and transient load response to meet ISO 8528 G2/G3 performances and tolerances. It shall be selected, installed, and tested by the engine manufacturer.

Note:

The engine speed shall be so maintained that frequency variation at constant load including no load shall remain within a band of 1% of rated frequency.

- 8.8 ENGINE EXHAUST SYSTEM
 - a) Exhaust system with smooth bends to create minimum back pressure, with suitable residential grade silencer (at optimum location) to reduce the noise level upto 75 dB and inbuilt Spark Arrestor. The silencer shall have an end inlet and end outlet with its horizontal tail end with 45 degrees downward cut to avoid rainwater entry or with rain cap vertical end. The exhaust flexible shall have its free length when it is installed.

The exhaust shall be terminated above the building / enclosure. The termination height shall be calculated with following formula:

H = h + 0.2 x square root-over of kVA, where H = Height of termination (in Meter), h = height of Building / Enclosure (in Meter)

- b) Exhaust piping shall be of MS pipe (Schedule B) conforming to relevant IS. The runs forming part of the factory assembly on the engine flexible connections upto the exhaust silencer shall be exclusive of exhaust piping item. 50mm thick loosely bound resin (LBR) mattress/mineral wool/Rockwool, density not less than 120kg/sq. meter and 0.6mm thick aluminium shall be used for cladding work. Load or stress shall be prevented on the turbocharger.
- 8.9 NOISE and EMISSION COMPLIANCE: Test certificates towards compliance of noise and emission norms as per latest CPCB II guidelines for gas engine and generator set shall be furnished along with the technical bid. The bid will be liable to be rejected in the event of non-submission of the CPCB compliance certificates.

		8.10 COOLING SYSTEM - System shall be designed for ambient temperature of 40 Deg C. It shall have closed coupled radiator subject to the engine manufacturer's standard design.
		8.11 ACCESSORIES: The engine shall be fitted with the following accessories subject to the design of the manufacturer: a) Engine over speed protection. b) Vibration dampeners. c) Non sparking guard for coupling d) Dynamically balanced Flywheel e) Necessary flexible coupling and guard for alternator and engine f) Rain Cap for vertical Exhaust Emission
		8.12 INSTRUMENTATION & CONTROLS: Engine shall be provided with the following instruments and controls for the efficient operation and safety. It shall be simple and easy to operate and maintain. All controls shall operate in fail-safe mode. a) Start/ Stop Switch b) Battery Charging Indication c) Lube oil pressure indication, alarm and shut down d) Low lube oil trip indication e) Water temperature indication f) High water temperature indication, alarm and shut down g) RPM indication h) Over-speed indication, alarm and shut down
		 i) Engine hours indication j) Engine Fail System: Engine Stop function shall be possible by two independent devices: (a) Automatic cutting off the gas fuel supply and (b) or as per manufacturer's standard.
9.0	ACOUSTIC ENCLOSURE	(Refer <u>SECTION B</u> for specification of Acoustic enclosure, Enclosure Illumination and Enclosure Earthing Arrangement.)
10.0	ONLINE GAS MONITORING SYSTEM	Continuous Online Gas Monitoring System, as specified here under, shall be installed inside the Acoustic Enclosure.
		 10.1 Detector / Gas Sensors: Minimum 02 nos. of sensors shall be provided 10.2 Type: IR (Infrared), suitable for detection of Natural Gas (By Volume CH4: 89.538 %, N2: 1.004 %, CO2: 0.543 %, C2H6: 4.132 %, C3H8: 2.491 %, Others: 2.292 %) 10.3 Range: 0 to 100 % LEL 10.4 Operating Temperature: 0 to 50 Deg C 10.5 Display: Digital LCD Display 10.6 Alarm Setting: Variable 10.7 Shut down setting: Variable 10.8 Control system: Suitable control system to be provided for alarm and safety shut down of the engine
		 Sensor calibration: Adjustment of Zero & Span on-site Non-Intrusive one man calibration shall have facility to calibrate the instrument on spot without disconnecting from power supply by using any portable hand held intrinsically safe calibrator. Detectors must be suitable for hazardous environment i.e., Zone 1 & Zone 2 hazardous area Gas Group IIA & IIB. Copy of Test Certificates from any NABL accredited test laboratories for the quoted Detector / Sensors, tested and approved as per relevant Indian/International Standard must be submitted along with the supply, as per OMR 2017
11.0	SKID	Engine and Alternator shall be directly coupled or coupled by means of flexoplate /flexible coupling as per manufacturer standard design and both units shall be mounted on a suitable designed common bed plate together with all auxiliaries to ensure perfect alignment of engine and alternator with minimum vibrations. The bed plate shall be suitable for installation on suitable anti-vibration mounting system.

12.0	PAINTING & PACKING	The bidders are advised to note that the generator set shall be moved frequently from location to location thereby prone to abuse of transportation. The skid/base shall be designed to help protect against damage and misalignment that could result while the unit is being moved. It shall be such that it shall help to isolate the generator set from impact loads that occur during movement and from distortions of the skid/base resulting from rough handling, protecting the generator driveline and its alignment. 12.1 Painting shall be done as per standard practice of manufacturer. 12.2 The packing shall be roadworthy for transportation up to site, sufficiently robust to withstand rough handling. 12.3 Boxes/packing cases containing electrical equipment shall be waterproof lined. 12.4 All the matters on the control panel shall be packed separately for mounting at site or mounted in such a manner to prevent transit damage 12.5 All manuals, books, digital items (CDs) shall be separately packed and contained in rigid plastic pouches.
		12.6 All manuals, drawings, documents, and digital items of engine shall be packed in one separate container and the container shall be separately handed over to OIL at delivery of the Gen sets.
13.0	EQUIPMENT DATA SHEET AND NAME PLATE/	13.1 EQUIPMENT DATA SHEET (Refer ANNEXURE-III for details of data sought)
	MARKING	13.2 NAME PLATE The following data shall be engraved on the name plate:
		13.2.1 Gas Engine: Manufacture's Name, Model, Sl. No. & Year of Manufacture, Rated BHP, Rated RPM, Weight in Kg., OIL's Purchase Order No.
		13.2.2 Alternator: Manufacturer's Name, Sl. No: Type & Frame Ref, Rated Output in kVA & kW, Type of Duty, Rated Power Factor, Frequency, Rated Voltage, Number of Phases & Type of Connection, Rated Speed (RPM), Class of Insulation, Excitation Current & Voltage at Rated Out Put, Year of Manufacture &, Weight in Kg., OIL's Purchase Order No.
		13.3 Marking: The genset system should be clearly and permanently painted on the outside of the enclosure with the following information:
		(a) WBS no: (OIL will provide the WBS no.) (b) Order no:
14.0	SPARE PARTS	14.1 The following spare parts required for two-year operation and maintenance of the engine shall be supplied along with the Order. Bidders shall provide the price, along with the part numbers, of the following spares that we envisage shall be required for maintenance of the genset for at least two years.
		 Gas Engine: (i) Spark Plug: 1 complete Set, Per Engine (Total: 2 X no. of cylinders) (ii) Ignition Transformer/coil: 1 complete Set, Per engine (Total: 2 X no. of cylinders) (iii) Set of Lube Oil Filter Elements: 6 Set Per Engine (iv) Set of Air Filter Elements: 6 Set Per Engine (v) Gas filter element (of gas train): 4 nos. Per engine (vi) Gas regulators: 1 complete Set (Stage 1 and Stage 2), Per Engine (vii) Set Of Vee Belts: 1 Set Per Engine
		(viii) Tappet Cover Gasket set: 4 complete Sets, per engine(ix) Self-Starter: 1 no., per engine(x) Battery Charging Alternator: 1 no. per engine

			(xi) Ignition System (Altronic or as per manufacturer's standard): 1 no., per engine
		14.2	The bidder must note that the above-mentioned spares are mandatory maintenance spares and are to be supplied along with the order.
		14.3	For electrical spares please refer to SECTION A .
		14.4	The cost of the spares as per clause no. 14.1 and 14.3 above should be provided
			separately and INCLUDED IN THE TOTAL COST OF EACH GENSET PACKAGE; and shall be considered during commercial evaluation of the offer. Price of each individual spares as per clause no. 14.1 and 14.3 is to be provided as per note
			below.
			Note: The price of these spares must be included in the Total Price of each unit. However, specific description, part numbers etc. (if available) and unit price of each & every spares shall be provided separately as pdf . document under "Financial Documents" while submitting the Price Bids in GeM Portal. Please note that no price should be mentioned in the Technical Bid.
		14.5	RECOMMENDED SPARES
			a. The bidder shall furnish a list of spares & components that will be required for regular operation and maintenance, overhauling etc. throughout the life of the equipment complete with price. Annual consumption of each spare should be furnished in a tabular format. The bidder should also provide detailed spare list of all the items including bought out items in the operation and maintenance manuals. The list should include a spare parts list along with OEM part numbers, make & model of the equipment and
			 contact postal address of OEM for all items of the whole unit. b. The bidders must submit a written undertaking (along with the bid) that they would be able to supply all the requisite spares and consumables (including bought out items) for a minimum period of 10 (ten) years from the Certified
15.0	SUBMITTALS	15.1	date of completion/ successful field commissioning of the unit. Following documents shall be submitted along with the technical bid:
			(i) Certificate/ declaration from the Engine Manufacturer against clause
			nos. from 6.6 to 6.10. (ii) GA drawing of Generator Set and Control Panel.
			(iii) Engine Data Sheet
			(iv) Manufacturers' product catalogues
			(v) Sizing of the engine generator set. Furnish calculation of Engine BHP for
			matching with alternator capacity. Calculation shall be approved by the Gen Set manufacturer. Calculation sheet from the Gen Set manufacturer for determining the size of the engine with respect to the genset rating.
			(vi) Acoustic Enclosure Dimensions indicating height, etc.
			(vii) Exhaust piping arrangement including height of exhaust.
			(viii) Transient response of frequency and voltage for the generator set.
			(ix) Auxiliary Equipment - Specification or data sheets, including switchgear,
			spring type vibration isolators. (x) Drawings- General dimensions drawings showing overall generator set
			measurements, mounting location, and interconnect points for load
			leads, fuel, exhaust, cooling and drain lines.
I			(xi) Wiring Diagrams – Electrical Wiring diagrams, schematics of Generator &
		i	control panel
			· · · · · · · · · · · · · · · · · · ·
			(xii) Warranty Statements.(xiii) Standard Engine Shop Manual (Engine Rebuilding Manual) from Engine

supply of the Standard Engine Shop Manual from OEM in the event of order placed upon it.

- (xiv) CPCB compliance certificates for emission and noise level.
- (xv) Undertaking from:
 - a) OEM of Engine and
 - b) OEM of Alternator

(in original on OEM's letter head)

shall be submitted by the bidder along with technical bid, guaranteeing uninterrupted supply of spares and availability of service for at least 10 years with effect from delivery of the Item / product for the item / product to be supplied under the Tender / Order, in the event of placement of order

- Drawings for approval on award of the order: The following drawings shall be submitted to OIL within one month of placement of the purchase order (Minimum 2 sets of hard copies). The supplier shall get them approved from OIL before start of the manufacturing works. The approval of drawings however does not absolve the contractor not to supply the equipment/materials as per agreement, if there is any contradiction between the approved drawings and agreement.
 - (i) Layout drawings of the equipment to be installed including control cables, fuel / lube oil pipes and supports/structure for exhaust piping, chimney and bus ducts / cable trays.
 - (ii) Drawings including section, showing the details of erection of equipment.
 - (iii) Electrical wiring diagrams from engine-alternator set to electrical control panel, including the sizes and capacities of the various electrical/control cables and equipment.
 - (iv) Dimensioned drawings of Acoustic enclosure/Engine-alternator set and electrical control panel.
 - (v) Drawings showing details of supports for pipes, chimney cable trays, ducts etc.
 - (vi) Any other drawings relevant to the work.

15.3 <u>Documents for submission before the pre-dispatch inspection:</u>

Two copies of the Integrated Operation & Maintenance Manual for the complete Generator Set including operating instructions with description and illustration of all switch gear controls & indicators, all generator controls and all engine controls.

15.4 <u>As built Drawings/Documents to be furnished on completion of installation & commissioning:</u>

(Quantity of Drawings and Documents to be submitted: 5 set + 1 set X Number of Generating Sets to be supplied):

- a) Generator set installation drawings giving complete details of all the equipment, including their foundations.
- b) Line diagram and layout of all electrical control panels giving switchgear ratings and their disposition, cable feeder sizes and their layout.
- c) Control wiring drawings with all control components and sequence of operations to explain the operation of control circuits.
- d) Manufacturer's technical catalogues of all equipment and accessories
- e) Integrated Operation & Maintenance Manual for the complete Generator Set including operating instructions with description and illustration of all switch gear controls & indicators, all generator controls, and all engine controls.

		 f) Engine Shop Manual (Engine Rebuilding Manual): 2(two) Copies only for the entire order quantity. g) Parts Books - that illustrates and list all assemblies, subassemblies, and components, except standard fastening hardware (nuts, bolts, washers, etc.). h) Routine Test Procedures - for all electronic and electrical circuits and for the main AC generator. i) Troubleshooting Chart - covering the complete generator set showing description of trouble, probable cause and suggested remedy. j) Wiring Diagrams and Schematics - showing function of all electrical components. k) Alternator Operation, Maintenance & Spare Part Manual. l) Generator Set Test Certificate.
		m) Certificate that the item has been designed, manufactured, and tested conforming to the requirements & specifications.
		n) OEMs test certificates for individual sub-assemblies (if any).
		o) Warranty Certificate
		 p) Complete step-by-step Safe Operating Procedure (SOP) for the complete generating set
16.0	STAGE	(For inspection and testing of electrical items refer SECTION A)
	INSPECTION AND TESTING	OIL as purchaser shall have right to carry out stage inspection and shop visit to inspect the
		manufacturing progress but such inspection shall not relieve the bidder of his responsibility
		to ensure that the equipment supplied is free from all manufacturing and other defects and conform to correct specifications.
17.0	PRE-DISPATCH	(i) Pre-delivery inspection shall be performed by OIL to ensure all generating set
	INSPECTION	components, controls, and switchgear are included as specified herein, free from any defects and carry full load tests on every generating set prior to delivery and acceptance. The manufacturer or its representative shall give a notice in advance of minimum four weeks for carrying out pre-delivery inspection and shall arrange staff/fuel/POL and any other consumables for test run at his cost. OIL shall witness such inspection & testing at mutually agreed date. To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying our inspection shall be borne by OIL. (ii) All major items/ equipment i.e. engine, alternator and associated electrical control panels etc. shall be offered for inspection and testing assembled as unit. (iii) Gensets shall be tested on load banks for the rated KW rating. Testing shall be for a minimum of 1 hour at 80% load, 1 hr. at 100% load, 1 hr. at 110% load. (iv) During testing all controls/ operations safeties shall be checked and proper record shall be maintained by the manufacturer's representative. Any defect/ abnormality noticed during testing shall be rectified. The testing shall be declared successful only when no abnormality/ failure is noticed during the testing. (v) Any defects which become evident during the test shall be corrected by the bidder at his own expense prior to shipment to the jobsite. (vi) The Genset shall be cleared for dispatch to site only when the testing is declared successful by OIL. (vii) A copy of the test results shall be submitted to the OIL at the end of the inspection. Test results shall show manufacturer's tolerances as well as actual parameters recorded.
18.0	DISPATCH/ SHIPMENT TO	The items shall be dispatched only after OIL's satisfactory inspection and advice for dispatch.
	SITE:	
19.0	INSTALLATION AND COMMISSIONING AT SITE	 (i) For installation and commissioning of electrical items refer to SECTION A. (ii) The foundation works required for the installation of the generating sets will be done by OIL. Gas fuel and water supply point will be made available nearest to the generating sets from which points onward the supplier shall extend the lines as per requirement.
		(iii) Installation and Commissioning of the generating set complete with control panel and

	T		
			Changeover Panel shall be carried out by the supplier at any site located in OIL's
		(iv)	Operational Area in Assam and Arunachal Pradesh. The installation shall be performed in strict accordance with shop drawings
		(17)	The installation shall be performed in strict accordance with shop drawings, specifications, and the manufacturer's instructions and as per tender specifications.
		(,,)	
		(v)	All materials required for installation and commissioning shall be in the scope of the
		/:N	supplier. This includes piping required for extension of engine exhaust.
		(VI)	The supplier shall provide all tools and equipment, all safety gadgets for safe work,
			labour, appliances, apparatus, etc. at his cost required to carry-out the installation
			and commissioning work. However, OIL may on request, provide arc welding and
		,	oxyacetylene cutting set with necessary hot/cold work permits for the above jobs.
		(VII)	The supplier shall be responsible for safety of its personnel and equipment during the
		,	installation and commissioning work.
		(VIII)	During the installation & commissioning job, the bidder shall strictly ensure that all
			the cut ends of cables, packing materials, leftover items are removed from site after
			completion of work. No environmental damage shall be done while carrying out the
		<i>(</i> •)	job.
		(IX)	All equipment manufacturers/representative shall furnish the services of factory-
			trained personnel as required during installation and through the warranty period to
			inspect the installation, supervise start-up of equipment installed, and repair the
			equipment when required. Service requests shall be answered and acted upon
		, ,	promptly.
		(x)	The responsibility for performance to the specifications shall not be divided among
			individual component manufacturers but must be assumed solely by the bidder
			(supplier). This includes generating system design, manufacture, test, and having a
		, .,	local supplier responsible for service, parts and warranty for the total system.
		(xi)	Bidders should confirm that installation & commissioning is included in the Technical
		,	Bid.
		(XII)	Cost of Installation & commissioning charges should be quoted separately which
			shall be considered for evaluation of the offers. These charges should include
			amongst others to and from fares, boarding/ lodging, local transport at Duliajan and
20.0	TOLAL DUN AND	/·\	other expenses of the service personnel during their stay at site.
20.0	TRIAL RUN AND	(i)	The generating sets shall be put under trial run for a period of 72 hours following
	HANDING OVER		their installation and commissioning. During this period, the generating set should
	TO OIL.		run trouble free from any major/minor troubles and meet the performance
			standards. A representative of the supplier should be based in Duliajan with no cost
		/···\	to OIL during the trial run period to monitor the performance of the generating sets.
		(ii)	The generator set will be said to have successfully completed the trial run, if no
			breakdown or abnormal /premature failure of any component of the entire generator
		, \	set occurs during this period.
		(iii)	Following the successful run-in period, the genset shall be taken over by OIL subject
			to guarantee/warrantee clause of the tender. This date of taking over of the
24.5	CEDVICE AND	/*\	generator set shall be the date of acceptance /taking over.
21.0	SERVICE AND	(i)	The supplier shall ensure adequate and prompt after sales service free of cost during
	WARRANTY		warrantee/guarantee period. In case of accessory/component supplied by other
			manufacturers the supplier shall furnish a guarantee/warranty from the
		/	manufacturer for the same before the generator set is taken over.
		(ii)	The nature of after sales service, which can be provided by the bidder, during initial
			erection and commissioning as also subsequent operation shall be clearly stated in
		/····	the quotation.
		(iii)	The manufacturer shall have a local authorized dealer who can provide factory
			trained servicemen, the required stock of replacement parts, technical assistance,
		15. 3	and warranty administration.
1		(iv)	The manufacturer's authorized dealer shall have sufficient parts inventory to
			maintain over the counter availability of at least 90% of any normal wear and tear
		1)	parts. (Belts, hoses, filters, turbines, pumps, safeties, regulators, injectors, gaskets)
		(v)	parts. (Belts, hoses, filters, turbines, pumps, safeties, regulators, injectors, gaskets) The manufacturer's authorized dealer shall have factory trained service
		(v)	parts. (Belts, hoses, filters, turbines, pumps, safeties, regulators, injectors, gaskets) The manufacturer's authorized dealer shall have factory trained service representatives and tooling necessary to install and commission all provided
		(v)	parts. (Belts, hoses, filters, turbines, pumps, safeties, regulators, injectors, gaskets) The manufacturer's authorized dealer shall have factory trained service

		 (vi) The warranty period for the Gen set and ancillary equipment shall be a minimum of 18 months from the date of dispatch/shipment or 12 months from the date of commissioning of the equipment, whichever is earlier. (vii) The warranty coverage shall include repair parts, labour, reasonable travel expense necessary for repairs at the jobsite, and expendables (lubricating oil, filters, antifreeze, and other service items made unusable by the defect) used during the course of repair or any defects in the engine or alternator during warranty period shall be replaced by the party at his cost without any extra charge to OIL. (viii) Running hours shall not be a limiting factor for the warranty coverage by either the manufacturer or the authorized dealer. (ix) Offer received without written warranties as specified shall be rejected in their entirety.
22.0	ORIENTATION	The system manufacturer's authorized dealer shall provide a complete orientation for OIL's engineering and maintenance personnel. Orientation shall include both classroom and hands-on instruction. Topics covered shall include control operation, schematics, wiring and diagrams, meters, indicators, warning lights, shutdown system and routine maintenance. Duration of orientation should be minimum of 2 days.
23.0	GENERAL NOTES TO TECHNICAL SPECIFICATION	 a) All sundry equipment, fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, junction boxes and all other sundry items for proper assembly and installation of the various equipment and components of the generator sets are deemed to have included in the tender, irrespective of the fact that whether such items are specifically mentioned in the tender documents or not. b) The offer shall not be acceptable if the bidder does not quote for all items of the tender, supply, installation, commissioning of all items. c) In their offer the bidder must mention their detailed comments pointwise against each point of tender specifications. Any deviation from the tender specification shall be specifically mentioned. Specific type and make of equipment shall be mentioned. All the information required as per tender specifications must be submitted. d) The bidders shall provide overall dimensions of the Genset, Acoustic Enclosure and foundation/installation diagram of the Genset. e) In the event of order, the supplier shall submit to OIL within one month of placement of order all documents and drawings as required against each item. f) The manufacture of the equipment is to be started only after written approval of the drawings / documents by OIL as mentioned in tender against all equipment. g) Bidder must confirm in the Technical Bid that the major equipment such as Gas Engine and Alternator shall have manufacturer's Test Report and Warranty Certificate and the same shall be provided during inspection of the Generator set by OIL.
24.0	GENERAL NOTES	(Bidders shall confirm each & every point clearly. <u>Deviations, if any,</u> shall be highlighted in
	FOR BIDDERS	 the quotation.) i) Materials shall be brand new, unused & of prime quality. ii) Pre-dispatch/Shipment Inspection & testing charges, if any, must be quoted separately on lump sum basis which shall be considered for evaluation of the offers. To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying our inspection shall be borne by OIL.
	ECTION A	SPECIFICATION OF ELECTRICAL ITEMS
1.0	SPECIFICATION OF ALTERNATOR	 Make of the Alternator shall be within the following: KIRLOSKAR / NGEF / STAMFORD / CROMPTON GREAVES / CATERPILLAR / KATO / GENERAL ELECTRIC, USA / LEROY SOMER Rated Output: 25 KVA, 0.8 power factor at Specified ambient conditions for utility and motor loads. Rated Voltage: 415 Volts ± 5% Armature Winding: 3 Phase, 4 wire type. Rated Frequency: 50 Hz ± 3% Power factor: 0.8 lagging Class of insulation: Class F/H but temp rise limited to Class B. RPM: As per engine rated speed

- (9) Phase sequence: UVW phase sequence and direction of rotation shall be clearly marked on the alternator.
- (10) Duty/load: Continuous duty rated Alternator.
- (11) Winding Connection: Y connected. Separate neutral terminal required
- (12) Ambient: Min: 5 °C Max: 45 °C, RH 95% max
- (13) Alternators Enclosure Protection: IP 23
- (14) Alternators Terminal Box Protection: IP 54
- (15) Excitation system: Brush less, self-excited, self-regulated with solid state AVR. Voltage characteristics- VG3 as per Table-1, IS 13364: Part 2: 1992 (Reaffirmed in 2018)
- (16) Mounting: Foot mounted on Gen set skid that should be mounted on anti-vibration pad.
- (17) Permissible voltage variation: As per Table-1, IS-13364 (Part-2)
- (18) Permissible frequency variation: As per IS-13364(Part-2)
- (19) Frame size: Bidder to confirm.
- (20) Waveform deviation: As per IS-13364 (Part-2)
- (21) Unbalanced current: As per IS-13364 (Part-2)
- (22) Short circuit current: As per IS-13364 (Part-2)
- (23) Cooling: Air cooled by integral fan
- (24) The brush less alternator shall have exciter and rotating rectifier-bridge mounted on shaft complete with diodes and surge suppressor, main field windings and stator windings. PIV of exciter diodes must be 800 Volts or 8 times the maximum exciter armature operating voltage, whichever is higher. At nominal speed the excitation system must produce sufficient residual voltage in order to ensure self-excitation.
- (25) All windings shall be made from electrolytic grade copper of high purity.
- (26) Voltage swing (Transient response): As per IS-13364 (Part-2).
- (27) The alternator shall be capable of sustaining a 10 % overload for one hour in any 12 hours operation.
- (28) Total voltage harmonic distortion shall be less than 3 % between phases at no load.
- (29) The alternator shall be capable of withstanding 1.2 times the rated speed for two minutes without any damage.
- (30) Alternator stator winding terminals are to be connected to 4 nos. of suitably rated tinned copper terminals, supported on SMC/GRP supports inside the alternator terminal box.
- (31) The alternator terminal box shall be of suitable size and shall be suitable for terminating power cables of alternator.
- (32) 2 nos. of earth points are to be provided on both sides of the alternator.
- (33) Lifting hooks are to be provided for lifting the alternator.
- (34) AVR shall be suitable for motor loads, VG3 regulation.
- (35) Alternator windings and AVR shall be suitable for humid atmosphere as per ambient conditions mentioned in the enquiry.
- (36) Bidder to mention the following information in offer.
 - (i) Unbalanced current carrying capacity.
 - (ii) Efficiency of the alternator at 25 %, 50 %, 75 % and 100 % load.
 - (iii) Power factor of the alternator at 25 %, 50 %, 75 % and 100 % load.
 - (iv) Dimensional drawings.
- (37) Alternator frame and enclosure shall be made from MS or Cast steel.
- (38) The permissible vibration of the alternator shall be as per IS-12075:2008 (Reaffirmed in 2018).
- (39) The alternator shall conform to the following standards: Latest publications of all IS Standards shall be referred.

IS: 12065 Noise limit

IS: 12075: 2008 (Reaffirmed in 2018): Mechanical Vibration of Rotating Electrical Machines with Shaft Heights 56 mm and Higher - Measurement, Evaluation and Limits of Vibration Severity

IS: 4691 Enclosure Protection

IS: 6362 Cooling

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		IS: 2253 Mounting IS: 13364 – Part 2: 1992 (Reaffirmed in 2018): AC Generators Driven by Reciprocating Internal Combustion Engine: Part 2 Rated Above 20 KVA and up to 1250 KVA.
2.0	SPECIFICATION OF GENERATOR CONTROL PANEL:	2.1 Electrical control panel of the generator set shall be incorporated & installed inside/outside the acoustic enclosure which will accommodate generator circuit breaker (63A MCCB), an on-load change-over switch(100A), protection relays, metering, control and protection devices (CBCT, ELR) etc. The detailed description of the panel is as follows:
		 a) Design of Genset Control Panel shall be compatible for running the generator in both the following conditions. Exact use at site would be at OIL's discretion. i) Generator Neutral solidly grounded without Neutral Grounding Resistor (NGR). ii) Generator Neutral grounded through NGR to restrict neutral current to maximum 750 mA (to comply with CEA Regulation 2010 clause #
		However, supply of NGR is not in the scope of the vendor. b) Sheet steel clad, self-supporting, floor mounting, cubicle type, dust and vermin proof generating set control panel made of 2mm thick MS CRCA sheet and built upon rigid framework of channels, beams as required, having front and rear hinged doors with danger plate fitted on both sides, lifting lugs on top, ventilation louvers on both sides, bottom detachable gland plates, double earthing studs on two sides, complete with suitably sized zinc passivated hard wares with heavy plain and spring washers. c) The panel doors shall have neoprene rubber gasket. d) The panel shall be designed and manufactured as per IS 8623: Part 3: 1993(Reaffirmed in 2018): Low-Voltage Switchgear and Control gear Assemblies - Part 3: Particular Requirements for Equipment Where Unskilled Persons have Access for Their Use. e) The panel enclosure shall be IP 54. Cooling louvers may be provided at bottom and top of the panel sides. Suitable wire mesh shall be provided on the inner side of the louvers to prevent entry of insects. f) The metal surface of the panel shall be given seven tanks anti corrosion treatment and then powder coated in DA grey colour (Min. 50 micron thick paint). g) The frame shall be able to withstand the stress and vibration during transportation and operation. h) All cable entry shall be from bottom side. Removable gland plates shall be provided for all cables. Height of electrical panel from skid/ floor shall be sufficient for entry of the electrical cable with proper bending radius. i) Genset shall be supplied in ready to use condition, complete with all interconnections like connection between generator terminal to generator
		breaker etc. 2.2 The detail description of the components of the electrical control panel is as described below: The panel shall broadly have the following compartments/sections: i) Incomer & Bus bar Section ii) Generator Protection Section iii) Generator control section
		iv) Engine control section v) Change-Over Switch 2.2.1 INCOMER/BUS BAR SECTION - MAIN COMPONENTS: a) Breaker / MCCB: 1 No. 415 V, 63 Amps, 4 pole, MCCB, 25 KA breaking capacity, with inbuilt microprocessor based, adjustable overload & short circuit, earth fault and earth leakage protection, Under voltage trip coil.

Earth fault protection can be in-built or separate through separate CBCT and earth leakage sensing relay. Rotary operating handle shall be provided on the panel door for manual operation of MCCB. MCCB shall have suitable indication in case of trip from trip unit of MCCB.

MCCB Make: Legrand/ Siemens/Schneider Electric/ABB.

The MCCB shall trip on the following faults:

- (i) Overload, short circuit and earth fault/earth leakage- Tripping from internal trip unit of MCCB
- (ii) Over/under voltage & Over /under Frequency- From voltage and frequency relays
- (iii) Engine fault (Low lube oil, high water temp, over speed)- Trip contact from engine protection system
- b) <u>Busbars</u>: Panel shall have one set of TP & N electrolytic grade, high conductivity, electro tinned copper bus-bars, made from rectangular sections confirming to IS, rated for 600 Amps (Free air rating of sections) and supported at required intervals to withstand short circuit fault levels up to 36 KA for 1 Sec. Rating of neutral bus shall be minimum 50% of phase bus rating. Bus-bar support shall be non- hygroscope GRP/FRP and the Bus-bar shall be insulated with heat shrinkable PVC sleeves.
- c) Incoming and outgoing power cables to/from MCCB shall terminate on electrolytic grade, high conductivity electro tinned copper spreader bar/links liberally sized for termination of all power cables. Neutral bar shall also have provision for connection of neutral earth cables. All cables to the panel shall enter through a detachable gland plate (of 3 mm thickness) at the bottom of the panel. All cables shall be terminated through suitably sized single compression glands and connections shall be made through properly rated terminal strips and tinned copper sweating sockets crimped rigidly to the copper conductors.

2.2.2 <u>Generator Protection Section</u>: This section shall have:

 Built-in long-time overload, short time fault, instantaneous short circuit, earth fault protections- in the MCCB. Earth leakage protection from earth leakage module on MCCB or Earth leakage relay with CBCT. ELR shall be adjustable (sensitivity: 0-3 A, time: 0-5 Sec)

CBCT make: Schneider/Legrand

- b) 1 No. 3 phase, 4 wire, Microprocessor based, Over and Under Voltage Monitoring Relay for the following protections:
 - i) Over voltage 110 %
 - ii) Under voltage 85 % with 1- 10 seconds time setting

Make: Telemecanique (Model RM3 TR114VS7 or higher version models) / ProkDvs (Model-LVM11-34-2CF or higher version models)/equivalent model of ABB Ltd/ Schneider / Siemens

c) 1 No. Over and Under frequency monitoring relay from 40 to 60 HZ with accuracy 0.1%, suitable for 415V Trip time 0-10Sec with LED indication, 2NO+ 2NC contact.

Make: ProkDvs (Model -HILO-2C-F or higher version models) / Minilec (FCS D2 or higher version models) / equivalent model of ABB Ltd/ Schneider / Siemens

d) Suitably rated CTs of 100/5 , class 5P10 for above (Make: Kappa / Conzerv/L&T).

2.2.3 Generator Control Section:

This section shall have:

a) Meters:

- 1 No. Three phase analog Voltmeter with selector switch, Size- 96 X 96 mm2, Class of accuracy 0.5, 0 500 V, Auxiliary power supply -230 V AC (Make: AEI/ Conzerv / L&T)
- 1 No. Three phase analog ammeter with selector switch, Size- 96 X 96 mm2, 0-500 Amps, C.T. operated, Auxiliary power supply 230 V AC, class of accuracy -0.5 (Make: AEI/ Conzerv / L&T)
- 1 No. Digital frequency meter, scaled 0-100 Hz, suitable for 240 V AC operation, (Make: AEI / Conzerv / L&T)
- 01 no. Digital multifunction meter indicating Voltage (V), Current(A), Frequency (Hz), Power factor(pf), Active Power (KW), Reactive Power (KVAR), Energy (KWH), Maximum Demand (MD) with RS-485 capability; make- Siemens (Sentron PAC 3200 or higher version models) / Schneider Group (Model- PM700 higher version models) or equivalent model of ABB, Automatic Electric, Rishabh.
- Suitably rated CTs, CT ratio 100/5, class I for ammeter, kW meter and PF meter (Make: Kappa / Conzerv / L&T.)
- All meters shall be mounted at the front door of the panel.
- In case Voltmeter, ammeter, frequency meter and multifunction meter are replaced by Digital Controller, then One no. Digital controller shall be supplied as spare.

b) Indications: Following are to be provided:

- "Engine running"
- Power supply "ON" for R, Y & B phases
- "Trip circuit healthy"
- "Tripped on Fault" (Electrical fault From aux contact of trip unit of MCCB)
- Over/under voltage
- Over/under frequency
- Engine fault
- Set on load

All indication lamps shall be of LED type (Make: Binay/ Technic/ L&T) and shall be mounted in front of the panel.

A separate annunciator window (multi-window) with audible alarm for showing engine and alternator faults, gas alarm etc. shall also be provided.

Push buttons for acknowledging/ resetting alarms, checking healthiness of trip circuits etc. shall also be provided.

c) <u>Fu</u>ses:

All meters, indication lamps shall be protected by adequate nos. of HRC instrument fuses / MCBs of suitable rating.

d) Auxiliary relays:

Auxiliary Relays /Contactors shall be provided as per requirement of the control circuits. (Make: Siemens/Telemecanique/ABB/BCH/L&T/Indo-Asian). All relays shall have minimum 2 nos. spare contacts. Number of relays shall be as per the control circuit requirement. Current rating of aux contacts shall be as per control circuit requirement.

Plug in type relays and contactors shall not be used in the control circuitry

panel.

2.2.4 Engine control section:

- a) This section shall have:
- Digital RPM meter -1 No.
- Engine alarm and trip condition monitoring
- Engine start/stop controls
- Battery charger circuit
- Emergency stop switch (mushroom head type)
- b) The following engine conditions shall give alarm indication:
- Low lube oil pressure (at low set point)
- High water temp. (in case of water-cooled engines)
- Engine over speed (at low set point)
- Low battery voltage
- c) In addition, engine shall be stopped with the help of heavy-duty 24V D.C. fuel solenoid on following trip conditions -
- Low lube oil pressure
- High water temp. (in case of water-cooled engines)
- Engine over speed
- High Vibration
- d) Push buttons shall be provided for:
- Accept fault
- Reset alarm
- Engine start/ stop
- Lamp test
- e) Indication of each of the trips shall be provided in the front multiannunciator window of the Engine control section. Suitable relay/ timer arrangement shall be provided wherever required.
- f) Hooter/alarm to indicate Engine trip on fault.
- g) All indication/metering/controls shall be mounted in front of the panel.

2.2.5 CHANGE OVER SWITCH:

- Output from the control panel bus bars shall be terminated on a changeover switch. Outgoing cable from the genset shall be connected to the outgoing side of the changeover switch. The other incomer of the changeover shall be reserved for connection to the mains supply / 2nd source.
- Description of the changeover switch is as follows.
- One no. four-pole on load changeover type switch rated for minimum 100 Amp. The switch shall be mounted/accommodated inside the control panel.
- Connection links/spreader bars shall be provided with switch for proper termination of all power cables.
- Power wiring from control panel to COS shall be done by the manufacturer.
- Sufficient space and arrangement shall also be provided in COS enclosure for entry and termination of main power cables (1 from the MCCB, 2nd from other source & third for power supply to the load centre).
- There shall be permanent connection from the MCCB to the Change-over switch(s) by bars / cable(s).
- 2.3 MOTOR STARTER PANEL (If necessary for operation of GEG as per OEM/ manufacturer design)

Manufacturer shall also provide starter panels along with necessary cables for any motors if necessary (e.g. lube oil circulation pump motor, radiator cooling fan motor, enclosure ventilation fan motor etc.) for operation of the GEG sets.

The starter panels as required may be accommodated inside electrical control panel complete with breakers / MCCBs or MPCBs (for power isolation), contactors, thermal overload relays, indication lamps, etc.

2.4 WIRING SCHEME Control voltage for generator control: 240VAC. Potential circuit wiring of the control system shall be done with 1.5 sq mm, flexible copper, 1100V grade PVC insulated wires approved by ISI, TAC, FIA. All wiring shall have copper lugs & terminal blocks as required. Wiring for lighting circuit MCB, power outlet and wiring for CT shall be done with 2.5 sq mm, flexible copper, 1100v grade PVC insulated wires approved by ISI, TAC, FIA & have copper lugs. Colour code for wires shall be followed as per IS. Make: Finolex/Havells/ L&T/Polycab. ii) All power and control wiring inside the enclosure shall be done at manufacturer's works with armoured cables or with single core cables laid in metallic conduits/ casings. Heavy duty Single Compression Cable Glands shall be provided at all cable entries for armoured cables. Cables with conduit wiring shall have suitable entry clamp. All cables shall be with stranded copper conductor and shall be of 1100v grade and approved by iii) All control cable terminal ends shall have suitable heavy duty crimping lugs of tinned copper. Ferrules shall be provided for identification of cables. All components shall be labeled for identification. iv) Separate gland plates shall be provided for power and control cables. Separate TB shall be provided for all interconnection cables between v) control panel and engine. vi) Provision of exhaust blower power supply shall be required if the blower is fitted inside the acoustic enclosure. Power supply arrangement with switching and protection shall be also vii) provided for any auxiliary motor, if installed for genset operation. viii) All auxiliary and main contactors shall be mounted on DIN channel. Plug in relays shall not be used. Engine control wiring shall run from engine to control panel in heavy duty ix) ISI approved galvanized flexible conduit supplied by the party. 3.0 **DOCUMENTS** 3.1 The following Documents / drawings shall be submitted with the offer: i) GA and schematic drawings of alternator and control panel. ii) Technical literature of alternator iii) Confirmation that the party agrees to all the points mentioned under electrical specification of generating set. Any deviation from the electrical specifications of the tender shall be specifically mentioned by the party with proper justification. Acceptance of deviations shall be at the discretion of OIL. iv) Type and make of components shall be as per tender. v) The bidder shall also specifically confirm even if there is no deviation in their offer from technical specifications. 3.2 The successful bidder shall obtain approval for the following drawings/documents prior to manufacturing of alternator & control panel within 30 days of placement of order. i) GA drawing ii) Documentary evidence from the manufacturer of generator confirming that the alternator to be supplied shall meet all specifications as mentioned in the order. Technical catalogue of the generator. iii) Detailed power & control wiring diagram, detail enclosure drawings for control panel, Changeover Switch, earthing scheme. iv) Layout plan of the unit showing all parts, cable routes. v) Illumination scheme. vi) Details of power cables, control cable and their routes. Bill of materials. vii) 3.3 Minimum Two sets (Hard Copies) of following as built drawings/documents per genset along with soft copies shall be submitted in bound form along with gensets: i) GA drawing

ii) Detailed power & control wiring diagram, detailed enclosure drawings for control panel, earthing iii) Scheme, layout plan of the unit showing all parts. iv) Details of power cables, control cable and their routes. vi) Details of power cables, control cable and their routes. vi) Technical literature of alternator. vii) O&M manual for Alternator and main components of control panel. viii) Catalogues of various components. ix) All test certificates for tests done at manufacturer's works for alternator control panel and complete unit. x) Tests done during commissioning. xi) Guarantee certificate for alternator and control panel. Guarantee shall be for 1 months after commissioning of Gen set or 18 months after supply, whichever earlier. xii) List of recommended spares with cat nos./part nos. & description for two year O&M. 4.0 ELECTRICAL SPARES 1. AVR Unit for Alternator - One no. per Gen Set. 2. Rotating rectifier assembly fitted with complete set of forward and reverse diodes One set per Gen set. 3. Generator circuit breaker (63A MCCB) 4. One no. Digital controller per genset shall be supplied if Voltmeter, ammete frequency meter and multifunction meter are replaced by Digital Controller. 5.0 INSPECTION AND TESTING FOR ALTERNATOR AND CONTROL PANEL INCLUDING STARTER PANEL as applicable ii) Measurement of winding resistances for generator armature, field, exciter armature and exciter field ii) Measurement of winding resistances for generator armature, field, exciter armature and field liij has voltage (HV) test iv) Phase sequence test v) Voltage regulation test vi) Voltage regulation test vii vii Pane vii description and reverse done viii provide vii pane vii	r
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vii) Measurement of noise level	
viii) Overload test	
ix) Measurement of open circuit and short circuit characteristics	
All the routine tests and load tests of the control panel, changeover panel and starter panel	
(if provided) shall be witnessed by OIL engineers at manufacturer's works. The routine test	t
of the panels shall include the following minimum tests/measurements:	
i) Physical checks & Operation checks of all components	
ii) HV tests	
iii) Insulation tests (before and after HV tests)	
Intimation for inspection for each item must be sent to OIL at least 15 days in advance.	
6.0 COMMISSIONING	\dashv
OF FLECTRICAL 6.1 Installation and Commissioning of the GEG sets with control panels, Auxiliary Motor	
(If provided, shall be carried out by the supplier as per NEC, ISI, CEA Regulations 201	
etc. at OIL's field area around Duliajan, Assam (India). Qualified and competer	
electrical personnel of supplier shall be deputed during installation & commissionin	. I
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1 0.2 All tools, ilistraments, test kits, etc. required for the job shall be provided by the	

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		supplier. Operational tests of all devises, their settings, shall also be carried out during commissioning job by the supplier.
		6.3 Accommodation and travel to site for supplier's all persons shall be arranged by
		supplier. 6.4 All protective devices shall be tested for proper operation and setting done during
		commissioning by the commissioning person of the successful bidder. All working
		persons of party shall possess valid electrical license issued/endorsed by Electrical
		Licensing Board, Govt. of Assam.
		6.5 The Gen set shall be treated as successfully commissioned from electrical side after
		successful load test (reliability run) of the unit at OIL's field site as per details given in
7.0	GUARANTEE	Sl. Nos. 15.0 , 19.0 and 20.0 of the detailed description. Generator and control panel components shall be guaranteed for 12 months after
7.0	GUARANTEE	commissioning of Gen set or 18 months after supply, whichever is earlier.
	SECTION B	SPECIFICATION OF ACOUSTIC ENCLOSURE
1.0	ACOUSTIC	a) The Acoustic enclosure shall be designed and manufactured conforming to relevant
1.0	ENCLOSURE:	standards suitable for outdoor installation exposed to weather conditions, and to limit
		overall noise level to 75dB(A) at a distance of 1 meter from the enclosure as per latest
		CPCB norms under free field conditions.
		b) The construction shall such that it prevents entry of rainwater splashing into the enclosure and allows free & quick flow of rainwater to the ground in the event of heavy
		rain. The detailed construction shall conform to the details as under:
		c) The enclosure shall be fabricated out of the CRCA sheet of thickness not less than
		1.6mm on the outside cover with inside cover having not less than 0.6mm thick
		perforated powder coated CRCA sheet.
		d) The hinged door shall be made from not less than 16SWG (1.6mm) thick CRCA sheet
		and shall be made airtight with neoprene rubber gasket and heavy-duty locks.
		e) All sheet metals parts shall be processed through 7-tank process.
		f) The enclosure shall be powder coated.
		g) Ventilation fans shall be provided, exhaust piping inside the enclosure must be lagged (except bellows).
		h) Temperature rise inside the enclosure shall not be more than 5 Deg C for maximum ambient above 40 Deg C and it shall be below 10 Deg C for ambient below 40 Deg C.
		i) There shall be provision for oil, coolant drain and fill.
		j) The batteries shall be accommodated in the enclosure in battery rack.
		k) The canopy shall be provided with high enclosure temperature safety device.
		I) The acoustic lining shall be made up of high-quality insulation material i.e. rockwool/glass/mineral wool/PU foam of appropriate thickness and density for sound absorption as per standard design of manufacturer's to reduce the sound level as per CPCB norms. The insulation material shall be covered with fine glass fibre cloth and would be supported by perforated MS sheet duly powder coated/GI sheet/ aluminium sheet.
		m) The enclosure shall be provided with suitable size & no. of hinged doors along the length of the enclosure on each side for easy access inside the acoustic enclosure for inspection, operation, and maintenance purpose. Sufficient space shall be provided inside the enclosure on all sides of the genset for inspection, easy maintenance, and repairs.

	1	
		n) The canopy shall be as compact as possible with good aesthetic look.
		o) The complete enclosure shall be of modular construction.
		p) The forced enclosure shall be as per manufacturer design using either engine radiator fan or additional blower fan(s). If the acoustic enclosure is to be provided with forced ventilation, then suitable size of axial flow exhaust fan to take the hot air from the enclosure complete with necessary motors and auto start arrangement shall be provided. The forced ventilation arrangement shall be provided with auto stop arrangement to stop after 5 minutes of the stopping of the gen set.
		q) The inside of the enclosure shall be provided with at least 2 (two) nos. Suitable LED Type luminaire controlled by a 5A switch for adequate lighting during servicing etc. of the gen set. The power supply to this luminaire shall be from the load side of the panel so that it can remain energized under all conditions.
		r) The control panel for the Generating set shall be installed separately inside the acoustic enclosure.
		s) A high temperature trip system (to shut down the engine by cutting off fuel supply to the engine through the solenoid valve) with variable setting connected to a thermostatically controlled blower must be provided for eliminating excessive heat dissipated by the engine within the acoustic enclosure.
		t) Suitable continuous online Temperature Monitoring and Control System with Alarm and Shut Down Mechanism shall be provided.
		u) When the concentration of gas inside the acoustic enclosure reaches 10 % of LEL of gas, audio visual alarm shall activate, and automatic preventive measure shall activate to reduce the concentration of leakage gas. These preventive measures include switching on heavy duty exhaust fan to disperse leakage gas or stoppage of gas leakage itself.
		v) When the concentration of gas inside the acoustic enclosure reaches 15 % of LEL of gas (or any other suitable rating), the alternator main circuit breaker shall trip automatically and subsequently the engine shall be shut down instantaneously by automatic device (i.e., cutting off power supply to the fuel solenoid valve.)
		w) A separate Blower of suitable size (size/capacity to be specified in the offer) shall be provided and it shall be in operation even if the thermostatically controlled blower stops / fails. There shall be a provision of emergency shutdown of the generating set (Prime Mover) from outside the enclosure.
2.0	SERVICE ACCESSIBILITY:	Genset /engine control panel shall be visible from outside the enclosure.
		a) Routine/periodical check on engine/alternator (filter replacement and tappet setting etc) shall be possible without dismantling acoustic enclosure.
		b) For major repairs/overhaul, it may be required to dismantle the acoustic enclosure.c) Sufficient space shall be available around the genset for inspection and service.
3.0	ENCLOSURE	(i) A separate circuit shall be provided for lighting of the acoustic part of the enclosure.
4.0	ILLUMINATION	Minimum 2 Nos. LED lamps shall be fitted in wall mounted type/ bulkhead light fittings.
4.0	ENCLOSURE EARTHING ARRANGEMENT:	Two nos. of 50x6 mm GI straps (earth bus) shall be provided inside the enclosure on both sides and fixed on the skid floor. The earth loops from alternator, control panel, changeover panel, auxiliary motors (if provided) shall be connected to these straps with
		two distinct and independent GI earth straps of sufficient size as per IS 3043.
		Earth leads and earthing jobs as per IS-3043.
		Suitable studs with fastener arrangement shall be provided on the earth buses for connection of earth straps to outside earth electrodes.

9	SECTION C	SPECIAL TERMS AND CONDITIONS
1.0	The Engine and the	Alternator (in case of bought out item) must be purchased from the respective OEM or the
	authorized dealer	of OEM of these items and such purchase documents must be submitted along with the
	supply of the items.	Bidders must furnish undertaking to comply with the same in their technical bids.
2.0	Undertaking from t	ne OEM of Engine and Alternator (in original on OEM's letter head) shall be submitted by the
	bidder along with t	echnical bid, guaranteeing uninterrupted supply of spares and availability of service for at
	least 10 years with	effect from delivery of the Item / product for the item / product to be supplied under the
	Tender / Order, in t	he event of placement of order.

ANNEXURE - II

BID EVALUATION CRITERIA (BEC)/BID REJECTION CRITERIA (BRC)

The bid must conform to the specifications and terms and conditions given in the enquiry. Bid shall be rejected in case the items offered do not conform to all the required technical parameters stipulated in the technical specifications and to the respective international / national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer shall be considered as non-responsive and rejected.

A.1 TECHNICAL

1.0 Bidder's Eligibility:

The bidder should either be an -

(i) OEM (Original Equipment Manufacturer) of the Engine/ Alternator/ Generator set.

OR

(ii) Authorized dealer of OEM of Engine/ Alternator/ Generator set.

Note: A copy of the Certificate of Incorporation (if the bidder is OEM) and a copy of valid authorized dealership certificate (if the bidder is Authorized dealer) must be submitted in the technical bid.

2.0 Bidder's Experience:

- (i) The bidder/OEM must have supplied to any Government/Semi Government bodies/Public Limited Company in India during the last 05 (five) years as on original bid closing date of the tender:
 - (a) Gas engine driven Generating Sets (of capacity 25 kVA or above) of value not less than **INR 105.96** Lakhs in a single order.

OR

- (b) At least 08 (Eight) nos. Gas Engine Driven Generating Sets (of capacity 25 kVA or above) in a single order.
- (ii) Documentary evidence in respect of manufacturing & supply, from the OEM/Bidder should be submitted with the technical bid, in the form of copies of relevant signed Purchase Orders along with copies of any of the following documents in respect of satisfactory execution of the Purchase Order failing which the bid will be rejected.
 - (a) Signed & sealed satisfactory supply/ completion/ installation report (in original on user's letter head) (OR)
 - (b) Bill of Lading (OR)
 - (c) Consignee delivery receipt/ challan (OR)
 - (d) Central Excise Gate Pass/ Tax Invoice issued under relevant rules of Central Excise/Vat./GST(OR)
 - (e) Commercial Invoice/ Payment Invoice.

Notes to Clause No. A.2.0 above:

- a. Original Bid Closing Date shall be considered for evaluation of BRC Criteria in case of any extension of the bid closing date.
- b. The purchase order date need not be within 05(five) years preceding original bid closing date of this tender. However, the execution of supply should be within 05(five) years preceding original bid closing date of this tender.
- c. A supply order executed by a bidder for its own organisation/subsidiary cannot be considered as experience for the purpose of meeting BEC.

3.0 The engine shall be of four-stroke cycle, spark-ignited, radiator cooled, in-line naturally aspirated/ turbocharged/turbocharged after-cooled gas engine with mechanical governing/ electronic Engine Control Unit integrating governing, monitoring and diagnosing features and functions, capable of operating without any external ventilation system at the given site conditions and should be suitable for generator drive meeting the latest CPCB norms/ norms of the Environment (protection) Rules 1986 [section: 95A for Genset run on dedicated Natural Gas (NG) or Liquid Petroleum Gas (LPG); Notification no. GSR 281(E) dated 7th March 2016 issued by Ministry of Environment, Forest & Climate Change, Government of India] for emission and noise level.

Note to Clause no. A.3.0:

A valid copy of both the Type Approval and Conformity of Production (COP) certificates of the offered engine model and generating set should be submitted with the technical bid for compliance towards –

- (i) emission norms
- (ii) noise norms
- 4.0 The rated output of the engine at 1500 RPM should be suitable for driving generator set of capacity 25 kVA Prime Duty and Performance Class not less than G2/G3 as per ISO 8528-5 with natural gas fuel and compression ratio not exceeding 12:1.

The bidder must submit the manufacturer's (OEM) product catalogue of the engine/generating set where the rated output should find mention in it in the technical bid.

5.0 The offered genset engine model should have proven track record of not less than 2400 running hours in one single unit.

Documentary evidence such as supply/purchase order copy and satisfactory performance certificates from the owner/user with the Make and Model of the genset clearly appearing in the body of the above documents should be enclosed with the technical bid.

6.0 <u>DELIVERY PERIOD</u>: Delivery of all the Genset Packages must be completed within 270 days from the date of issue of Purchase order. The date of receipt of materials at site shall be considered as the date of delivery. Additional time will not be given for the drawing approval, it must be completed in above mentioned 270 days.

Installation & Commissioning shall be completed within 90 days from the date of receipt of site clearance from OIL.

(Please refer to SECTION A, Clause no. 19.0 of Annexure – I: TRIAL RUN AND HANDING OVER TO OIL regarding acceptance/taking over of the gensets)

Bids submitted by Bidders quoting delivery period more than the abovementioned duration shall not be accepted. Bidders must categorically confirm the delivery period in their Technical Bid.

A.2 FINANCIAL

1.0 The bidder shall have an annual financial turnover of minimum INR 1,05,96,896.00 during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender.

[Annual Financial Turnover of the bidder from Operations shall mean - "Aggregate value of the realization of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91)]

2.0 "Net Worth" of the bidder should be positive for the financial/accounting year just preceding to the original bid closing date of the tender.

[Net worth shall mean: "Share capital + Reserves created out of profits and securities Premium - Aggregate value of accumulated losses (excluding revaluation reserves) - deferred expenditure - Miscellaneous Expenditure to the extent not written off and carried forward loss - Reserves created out of write back of depreciation and amalgamation"]

3.0 Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying (PROFORMA – A) that 'the balance sheet/Financial Statements for the financial year (As the case may be) has actually not been audited so far'.

Note:

- a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:
 - i) A certificate issued by a practicing Chartered/Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in **PROFORMA B**.

OR

- ii) Audited Balance Sheet along with Profit & Loss account.
- b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.
- 4.0 In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date of Balance Sheet and Profit & Loss Account. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.
- 5.0 In case the Bidder is subsidiary company (should be 100% owned subsidiary of the parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ultimate parent/holding company, then following documents need to be submitted:
 - (i) Turnover of the parent/ultimate parent/holding company should be in line with Para B (1.0) above.
 - (ii) Net Worth of the parent/ultimate parent/holding company should be positive in line with Para B (2.0) above
 - (iii) Corporate Guarantee (PROFORMA C) on parent/ultimate parent/holding company's company letter head signed by an authorized official undertaking that they would financially support their wholly owned subsidiary company for executing the project/job in case the same is awarded to them.
 - (iv) Documents to substantiate that the bidder is as 100% subsidiary of the parent/ultimate parent/holding company.

(A.3) BRC - COMMERCIAL:

- 1.0 Bids are invited under SINGLE STAGE TWO BID SYSTEM. Bidders should upload Techno-Commercial Bid (Unpriced Bid) and Priced Bid separately at the designated fields assigned in GeM Portal. Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid. The "Unpriced Bid" shall contain all techno-commercial details except the prices/costs. Bidder not complying with above submission procedure will be rejected.
- 2.0 The prices/rates offered against the tender must remain firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price condition shall be treated as non-responsive and rejected. No discount whatsoever should be quoted separately. Rates/prices quoted must be net of all discounts.

- **3.0** Bids received in physical form shall be rejected (except the documents specifically called for in hard copies, if any). Also, modifications to bids received after the bid closing date & time shall not be entertained.
- **4.0** Bids containing incorrect/false/misleading statement(s) shall be rejected.
- **5.0** Validity of the bid shall be **minimum 90 days** from the date of actual Bid Closing Date. Bids with lesser validity shall be straightway rejected.
- Bidders must confirm that goods/materials to be supplied against the order arising out of this tender shall be of recent make, unused, of the best quality & workmanship and free from defects. The Bidder must undertake to stand guaranteed for the materials as called for in the tender. Defective goods/materials rejected by OIL, whether the entire lot or part thereof, shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.
- 7.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Security must be valid for a period as called for in the tender document. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.(Please refer Annexure III: GENERAL NOTES TO BIDDERS)
- Bids must be accompanied by Bid Security for the amount as mentioned in the tender document and shall be in the prescribed format (PROFORMA G) if submitted in the form of Bank Guarantee (BG). Bid Security may also be paid through online payment mode. Bid Security must be submitted within the scheduled Bid Closing date and time of the Tender, failing which the bid may be treated as incomplete and may lead to rejection of the bid without making any reference to the bidder. The amount of Bid Security (EMD) must be strictly as specified in the tender document. Bid Security if submitted in the form of BG/e-PBG must be valid at least for a period of 135 days from the date of original bid closing date of the tender. Bid shall be rejected without further reference, if the Bid Security (EMD) is not received strictly as above, except where exempted. OIL will not assume any responsibility whatsoever for submission of deficient/faulty Bid Security or for delay/non-delivery of the same (Please refer Annexure III: GENERAL NOTES TO BIDDERS).
- 9.0 Bid must be uploaded together with the Integrity Pact(*If applicable against the tender*) and the same must be duly signed digitally. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact, their bid shall be rejected straightway (Please refer Annexure III: GENERAL NOTES TO BIDDERS).
- **10.0** Bidders shall accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection:
 - i) Liquidated Damages
 - ii) Warranty/Guarantee of material
 - iii) Arbitration / Resolution of Dispute
 - iv) Force Majeure
 - v) Applicable Laws
- **11.0** A bid shall be rejected straightway if it does not conform to any one of the following clauses:
 - a) Validity of bid shorter than the validity indicated in the Tender.
 - b) Incase the party refuses to sign Integrity Pact.
 - c) Original Bid Security not received within the stipulated date & time mentioned in the Tender.
 - d) Bid Security with (i) validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender.

ANNEXURE-III

DATA SHEET

	EQUIPMENT DATA SHEET	
1	Make & Model of offered Generating Set	
2	Typical Maximum Prime Power Rating at 50Hz (0.8 P.F.), kW:	
3	Output Voltage and Frequency:	
4	Power Factor:	
5	No. of Phases:	
6	Over all Dimensions, MM:	
7	Dry Weight:	
8	Performance in 40°C air, 150 MSL, Prime power rating at 0.8 power	
	factor (KW)/ kVA rating:	
9	Fuel consumption at standard conditions for: 50%, 75% and 100% load	
10	Exhaust gas components: % NOX, % SO, Tons particulate/yr/mo at 50%,	
	100% load	
11	Verification of 10% overload capability	
ENGIN	E	
1	Make:	
2	Type/Model:	
3	No. of cylinders:	
4	Aspiration:	
5	Bore:	
6	Stroke:	
7	Displacement, Litre:	
8	Engine Output Prime, kWm (Max):	
9	Piston Speed, m/s:	
10	Brake Mean Effective Pressure (BMEP), kPa:	
11	Engine Rating (BHP) at 1500RPM and Piston Compression Ratio:	
12	Natural Gas Consumption for Gas Calorific Value:	
	(970BTU/CFT or 8632kCal/M3) SCM/Hr.	
13	Exhaust Temperature (Stack) ^o C	
14	Energy Input, kW:	
15	Energy Output, kW:	
16	Heat Rejected to Jacket Water, kW:	
17	Heat Rejected to After-cooler LTA Circuit, kW:	
18	Heat Rejected to Exhaust, kW:	
19	Heat Rejected to Ambient+ Unaccounted, kW:	
20	Air Flow in Litre/sec:	
21	Exhaust Gas Flow, Litre/sec:	
22	Exhaust System Permissible Back Pressure, mm Hg:	
23	Engine Water Flow, Litre/Min:	
24	After Cooler Circulating Water Flow, Litre/Min:	
25	Main Line Pipe size, MM:	
26	Main Line Gas Pressure, Kg/CM2	
27	Engine Dimension, L x B x H:	
28	Dry Weight of the Engine without Cooling System:	
29	Governing system	
30	Type of governor	
31	Accuracy	
32	Engine protection details	
33	Method of starting	

RADIATOR					
1	Model/Type				
2	Coolant Capacity				
3	Horsepower required to run the radiator fan				
ALTER	ALTERNATOR				
1	Make's name				
2	Rated KVA				
3	Power factor				
4	Rated voltage				
5	Rated current				
6	Speed in rpm				
7	Frequency				
8	No. Of phase				
9	Overload capacity				
10	Class Of insulation				
11	Type of enclosure				
12	Voltage regulation				
13	Direction of rotation				
14	Type of bearing				
15	RTD's provided (no)				
16	Model				
17	Frame				
18	Insulation class				
19	Number of Leads				
20	Weight, total				
21	Weight, rotor				
22	Air Flow				
23	At rated voltage:				
24	Efficiency at 0.8 power factor for: 50% load, 75% load, 100% load				
25	Fault current, 3 phase symmetrical				
26	Decrement curve				

ANNEXURE-IV

TECHNICAL CHECKLIST

The Technical Check List must be completed and returned with your offer. Please ensure that all these points are covered in your offer. These will ensure that your offer is properly evaluated. Please select **Yes/No/Not Applicable** to the following questions, in the right-hand column

SL. NO.	DESCRIPTIONS	COMPLIANCE Yes/No/Not Applicable	REMARKS
1	Whether quoted as OEM of Engine and whether documentary evidence submitted?		
2	Whether quoted as OEM of Alternator & whether documentary evidence submitted?		
3	Whether quoted as OEM of Genset & whether documentary evidence submitted?		
4	Whether quoted as Authorized Dealer of OEM (Engine/Alternator/ Genset) and whether documentary evidence submitted?		
5	Whether After-sale Service Centre for the engine offered located in India?		
6	Whether clauses of the technical bid is responded clause-wise		
7	Whether deviation (if any) from the technical specifications are highlighted clause wise?		
8	Whether detail specification of engine with manufacturer's technical literature/catalogue enclosed?		
9	Whether detail specification of Alternator with manufacturer's technical literature/catalogue enclosed?		
10	Whether test certificate of Alternator and Control Panel shall be submitted?		
11	Whether power and Wiring diagram of Alternator Control Panel submitted?		
12	Whether bill of Materials of Control Panel submitted?		
13	Whether confirmed that control panel drawing shall be approved by OIL before manufacturing in the event of placement of order?		
14	Whether offered engine is as per NIT specifications?		
15	Whether quoted for supply, installation, commissioning & Test run at site of generator set?		
16	Whether the Generator Set is rated in the 25 kVA at 0.8PF, 415Volts AC 3 Phase 50Hertz Prime Duty?		
17	Whether the engine and the Gen set design is as per ISO 3046/BS5514/ISO8528 standards?		
18	Whether documentary evidence i.e. (i) Purchase Order Copies, (ii) Invoices, (iii) Satisfactory supply/ completion/Installation report for the supplies made against the past orders for the specified engine driven generator sets submitted with the technical bid?		
19	Whether undertaking and confirmation from OEM that the equipment to be supplied are not going to become obsolete for the next 10 years and whether spare parts for 10 years shall continue to be supplied at the least?		
20	Whether undertaking/ certificate from the engine OEM/Generator Set OEM certifying the block load capability of the engine/generator submitted with the technical bid?		
21	Whether undertaking/ certificate from the engine OEM certifying the rated output vis-a-vis compression ratio and RPM of the engine submitted with the technical bid?		
22	Whether undertaking/ certificate from the engine manufacturer in support of the engine rating and output is submitted?		
23	Whether Composite Operation Manual for the Generator Set Complete and Trouble Shooting Chart shall be supplied along with the Order?	_	

24	Whether Engine Shop Manual (Engine Rebuilding Manual) and Parts Manual shall be supplied with the Order?	
25	Whether spare parts of engine, gas train etc for two years operation and maintenance shall be supplied along with the order and list of such spares submitted with the technical bid?	
26	Whether the content of this Check List is read and responded?	
27	Whether total cost of spares as per clause no. 14.1 and 14.3 of Annexure - I has been included in the cost of each engine package-wise?	

ANNEXURE – V

GENERAL NOTES TO BIDDERS

- **1.0** The bid is governed by GeM General Terms &Conditions (GeM GTC) prevalent on the bid closing date of tender.
- **2.0** Bidders shall submit their offer mentioning pointwise compliance/noncompliance to all the terms & conditions, BEC/BRC, Specifications etc. Any deviation(s) from the tender terms & conditions, BEC/BRC, Specifications etc. should be clearly highlighted specifying justification in support of deviation.
- **3.0** To ascertain the substantial responsiveness of the bid, OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by OIL, failing which the offer will be summarily rejected. However, bidder(s) must note that there should not be any additional financial involvement arising out of such post tender clarifications.
- 4.0 The Bidder to submit following Technical Evaluation Sheet along with technical bid -

Annexure –VI: Bid Evaluation Matrix (Technical Specification)
Annexure –VII: Bid Evaluation Matrix (Bid Rejection Criteria)

5.0 INTEGRITY PACT

OIL shall be entering into an Integrity Pact, **if applicable** with the bidders as per format enclosed vide **PROFORMA** - **D** of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact have been signed by the bidder's authorized signatory who sign the Bid. If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.

OIL's Independent External Monitors at present are as under:

DR. TEJENDRA MOHAN BHASIN, Former Vigilance Commissioner, CVC E-mail: tmbhasin@gmail.com

SHRI RAM PHAL PAWAR, IPS (Retd.), Former Director, NCRB, MHA E-mail: rpawar61@hotmail.com ramphal.pawar@ips.gov.in

SHRI AJIT MOHAN SHARAN, IAS (Retd.) Former Secretary, Ministry of Ayush, Gol

Mob No.: 9810701876 E-mail: ams057@gmail.com

- 5.1 In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact.
- 5.2 In the event of any dispute between the management and the contractor relating to those contracts where Integrity Pact is applicable, in case, both the parties are agreeable, they may try to settle dispute through mediation before the panel of IEMs in a time bound manner. If required, the organizations may adopt any mediation rules for this purpose. In case, the dispute remains unresolved even after mediation by the panel of IEMs, the organisation may take further action as per the terms and conditions of the contract.

6.0 DOMESTICALLY MANUFACTURED IRON & STEEL PRODUCTS (DMI & SP): Not Applicable

Steel Policy notified vide Notification No. 324 dated 29.05.2019 and as amended from time to time by Ministry of Steel, Government of India is applicable against this tender. The detailed policy may be referred in Ministry's website. Also, refer **ANNEXURE – VI** to this tender in this regard.

7.0 MICRO AND SMALL ENTERPRISES (MSE)

Categorisation and various Criteria applicable to MSE bidders shall be guided by the Gazette Notification No. CG-DL-E-26062020-220191 dated 26.06.2020 and Amendment vide Gazette Notification no. CG-DL-E-16062021-227649 dated 16thJune, 2021 issued by Ministry of Micro, Small and Medium Enterprises.

The bidder claiming as MSE status (MSE-General, MSE-SCIST, MSE -Woman) against this tender has to submit the following documents for availing the benefits applicable to MSEs:

Udyam Registration Number with Udyam Registration Certificate.

<u>Note</u>: In case bidding MSE is owned by Schedule Caste or Schedule Tribe entrepreneur or Woman Entrepreneur, valid documentary evidence issued by the agency who has registered the bidder as MSE owned by SC/ST entrepreneur/ Woman Entrepreneurs should also be enclosed.

7.1 For availing benefits under Public Procurement Policy (Purchase preference), the interested MSE Bidders must ensure that they are the manufacturer of tendered item (Primary Product Category) and registered with the appropriate authority for the said item(s).

8.0 PREFERENCE TO MAKE IN INDIA (MII)

Department for Promotion of Industry and Internal Trade (DPIIT), has issued the revised 'Public Procurement (Preference to Make in India), Order 2017" vide Order no. No. P-45021/2/2017-PP (BE-II) dated 04.06.2020. Bidders are requested to go through the policy and its subsequent amendments, if any, and take note of the same while submitting their offer.

- 8.1 The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification (PROFORMA E) that the item offered meets the local content requirement for 'Class-I local supplier', 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made. Such undertaking shall become a part of the contract.
- 8.2 In cases of procurement <u>for a value in excess of Rs. 10 crores</u>, the 'Class-I local supplier'/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
- 9.0 RESTRICTIONS ON PROCUREMENT FROM A BIDDER OF A COUNTRY SHARING LAND BORDER WITH INDIA:

 Ministry of Finance of Govt. of India, Department of Expenditure, Public procurement Division vide office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020 (order-Public Procurement no.1) has proclaimed the insertion of Rule 144 (xi) in the General Financial Rules (GFRs), 2017 w.e.f. 23rd July, 2020 and amended vide O.M. No. F.7/10/2021-PPD (1) dated 23.02.2023 (order public procurement no. 4) from Procurement Policy Division, Department of Expenditure, Ministry of Finance forwarded by Department of Public Enterprises vide O.M. No. F. No. DPE/7 (4)/2017-Fin dated 24.02.2023 regarding restrictions on procurement from a bidder of a country which shares a land border with India on the grounds of defence of India on matters directly or indirectly related thereto including national security. Bidders are requested to take note of the following clauses and submit their offers accordingly wherever applicable.
 - (1) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority [Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT)]. Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, shall also require to be registered with the same competent authority to be eligible to bid in this tender.
 - (2) "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

- (3) "Bidder (or entity) from a country which shares a land border with India" for the purpose of this Order means:
 - a. An entity incorporated, established or registered in such a country; or
 - b. A subsidiary of an entity incorporated, established or registered in such a country; or
 - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d. An entity whose beneficial owner is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- (4) The beneficial owner for the purpose of para (3) above will be as under:
 - (i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation:

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company.
- b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements.
- (ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
- (iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- (iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- (v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- (5) An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- (6) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.
- (7) <u>Validity of Registration</u>: The registration should be valid at the time of submission of bid and at the time of acceptance of bid. If the bidder was validly registered at the time of acceptance/placement of order, registration shall not be a relevant consideration during contract execution.
- (8) <u>Undertaking regarding compliance</u>: The bidders are required to provide undertakings as per PROFORMA – F(I), PROFORMA – F(II) & PROFORMA – F(III) along with their bid towards compliance

of the above guidelines for participation in this tender. If the undertakings given by a bidder whose bid is accepted is found to be false, this would be a ground for debarment/action as per OIL's Banning Policy and further legal action in accordance with law.

10.0 SETTLEMENT OF DISPUTES:

- 10.1 <u>Arbitration (Applicable for Suppliers/Contractors other than PSU and MSME)</u>: Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties are unable to settle mutually, the same shall be referred to Arbitration as provided hereunder.
- 10.1.1 A party wishing to commence arbitration proceeding shall invoke Arbitration Clause by giving 30 days' notice to the other party. The notice invoking arbitration shall specify all the points of dispute with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter. If the claim is in foreign currency, the claimant shall indicate its value in Indian Rupee for the purpose of constitution of the arbitral tribunal.
- 10.1.2 It is agreed and undertaken by the Parties that irrespective of country of origin of the Contractor, the arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996 and under no circumstances, the proceedings shall be construed as International Arbitration.
- 10.1.3 The number of arbitrators and the appointing authority will be as under:

Claim amount (excluding claim for interest and counter claim, if any)	Number of Arbitrator	Appointing Authority
Upto Rs. 25.00 Lakh	Not applicable	Not applicable
Above Rs. 25.00 Lakh upto Rs. 25 Crore	Sole Arbitrator	OIL
Above Rs. 25 Crore	3 Arbitrators	One Arbitrator by each party and
		the 3rd Arbitrator, who shall be
		the presiding arbitrator, by the
		two Arbitrators.

- 10.1.4 The parties agree that they shall appoint only those persons as arbitrators who accept the conditions of the arbitration clause. No person shall be appointed as Arbitrator or Presiding Arbitrator who does not accept the conditions of the arbitration clause.
- 10.1.5 If any of the Arbitrators so appointed dies, resigns, becomes incapacitated or withdraws for any reason from the proceedings, it shall be lawful for the concerned party/arbitrators to appoint another person in his place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his predecessor had left if both parties consent for the same; otherwise, he shall proceed de novo.
- 10.1.6 Parties agree and undertake that neither shall be entitled for any pre-reference or pendente-lite interest on its claims. Parties agree that any claim for such interest made by any party shall be void.
- 10.1.7 The arbitral tribunal shall complete the proceedings, make and publish the award within time stipulated in the Arbitration and Conciliation Act, 1996 (as amended).
- 10.1.8 If after commencement of the arbitration proceedings, the parties agree to settle the dispute mutually or refer the dispute to conciliation, the arbitrators shall put the proceedings in abeyance until such period as requested by the parties. Where the proceedings are put in abeyance or terminated on account of mutual settlement of dispute by the parties, the fees payable to the arbitrators shall be determined as under:

- (i) 20% of the fees if the claimant has not submitted statement of claim.
- (ii) 40% of the fees if the pleadings are complete.
- (iii) 60% of the fees if the hearing has commenced.
- 10.1.9 Each party shall be responsible to make arrangements for the travel and stay etc. of the arbitrator appointed by it. Claimant shall also be responsible for making arrangements for travel/stay arrangements of the Presiding Arbitrator and the expenses incurred shall be shared equally by the parties.

In case of sole arbitrator, both parties shall equally share all expenditures that may be required to be incurred.

- 10.1.10 The fees and other administrative/secretarial expenses of the arbitrator(s) shall not exceed the model fee as stipulated in Schedule of the Act and such expenses shall be equally borne by the parties.
- 10.1.11 The Place/Seat of Arbitration shall be Guwahati or the place where the contract is executed. The venue of the arbitration shall be decided by the Arbitrator(s) in discussion with the parties. The cost of arbitration sittings shall be equally borne by the parties.
- 10.1.12 The Arbitrator(s) shall give reasoned and speaking award and it shall be final and binding on the parties.
- 10.1.13 Subject to aforesaid, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof shall apply to the arbitration proceedings under this clause.

10.2 Arbitration (applicable in case of Contract awarded on Public Sector Enterprise):

- 10.2.1 In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract (s) between Central Public Sector Enterprises (CPSEs) and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in OPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018.
- 10.2.2 A party wishing to commence arbitration proceeding shall invoke Arbitration Clause and refer the dispute(s) to AMRCD with a copy to the other party. The notice invoking arbitration shall specify all the points of dispute with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter.
- 10.2.3 Upon such reference, the dispute shall be decided by the Competent Authority appointed under the AMRCD, whose decision shall bind the parties finally and conclusively. The parties in the dispute will share equally the cost of the arbitration as intimated by the Arbitrator.

10.3 Arbitration (Applicable to Micro, Small and Medium Enterprise)

10.3.1 In the event of any dispute or difference relating to, arising from or connected with the Contract, efforts shall be made to resolve the dispute(s) amicably by mutual consultation and in case such dispute(s) cannot be resolved through mutual consultation, then same shall be resolved through the procedure as prescribed in Section-18 of the Micro, Small and Medium Enterprises Development Act, 2006.

10.4 Resolution of disputes through conciliation by OEC

(Not Applicable in cases where value of dispute is less than Rs. 25 Lakhs and more than 2 Crore)

If any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect,

interpretation of the contract or breach thereof which parties are unable to settle mutually, Company at its discretion, on its own or on the request of the Contractor, may refer the dispute to Outside Expert Committee (OEC) to be constituted by Corporate Business Committee (CBC), OIL as provided hereunder –

- 10.4.1 The party desirous of resorting to conciliation shall send a notice of 30 (thirty) days to the other party of its intention of referring the dispute for resolution through OEC. The notice invoking conciliation shall specify all the points of disputes with details of the amount claimed to be referred to OEC and the party concerned shall not raise any new issue thereafter.
- 10.4.2 OIL shall nominate three outside experts, one each from Financial/commercial, Technical and Legal fields from the Panel of Outside Experts maintained by OIL who shall together be referred to as OEC (Outside Experts Committee).
- 10.4.3 Parties shall not claim any interest on claims/counterclaims from the date of notice invoking conciliation till execution of settlement agreement, if so, arrived at. In case, parties are unable to reach a settlement, no interest shall be claimed by either party for the period from the date of notice invoking conciliation till the date of OEC recommendations in any further proceeding.
- 10.4.4 The Proceedings of the OEC shall be broadly governed by Part III of the Arbitration and Conciliation Act, 1996 including any modifications thereof. Notwithstanding above, the proceedings shall be summary in nature and Parties agree to rely only upon documentary evidence in support of their claims and not to bring any oral evidence in the OEC proceedings.
- 10.4.5 OEC shall hear both the parties and recommend possible terms of settlement between the parties. The recommendations of OEC shall be non-binding and the parties may decide to accept or not to accept the same. Parties shall be at liberty to accept the OEC recommendation with any modification they may deem fit.
- 10.4.6 Where recommendations are acceptable to both the parties, a settlement agreement will be drawn up in terms of the OEC recommendations or with such modifications as may be agreed upon by the parties. The settlement agreement shall be signed by both the parties and authenticated by all the OEC members either in person or through circulation. This settlement agreement shall have the same legal status and effect as that of an arbitration award on agreed terms on the substance of the dispute rendered by an arbitral tribunal under Section 30 of the Arbitration and Conciliation Act, 1996.
- 10.4.7 OIL will share all other guidelines regarding reconciliation through OEC with the Contractor when it resorts to settlement through OEC. Both parties agree to adhere to these guidelines.
- 10.4.8 All the expenditure incurred in the OEC proceedings shall be shared by the parties in equal proportion. The parties shall maintain account of expenditure and present to the other for the purpose of sharing on conclusion of the OEC proceedings.
- 10.4.9 The OEC proceedings must be completed within a period of 3(three) months from the date of constitution of the OEC with a provision of extension of one months, subject to mutual agreement. The Place of OEC shall be either at New Delhi or Guwahati.
- 10.4.10 If the parties are not able to resolve the dispute through OEC or do not opt for conciliation through OEC, the party may invoke arbitration clause as provided in the contract.
- 10.4.11 The parties shall be represented by their in-house employees/executives. No party shall bring any advocate or outside consultant/advisor/agent. Ex-officers of OIL who have handled the matter in any capacity directly or indirectly shall not be allowed to attend and present the case before OEC on behalf of Contractor. However, ex-employees of parties may represent their respective organizations.

10.4.12 Solicitation or any attempt to bring influence of any kind on either OEC Members or OIL is completely prohibited in conciliation proceedings and OIL reserves the absolute right to close the conciliation proceedings at its sole discretion if it apprehends any kind of such attempt made by the Contractor or its representatives.

10.5 Exclusions

Parties agree that following matters shall not be referred to conciliation or arbitration:

- 10.5.1 Any claim, difference or dispute relating to, connected with or arising out of OIL's decision to initiate any proceedings or suspension or debarment or banning or decision to suspend or to ban or to debar business dealings with the bidder/Contractor and/or with any other person involved or connected or dealing with bid/contract/bidder/Contractor.
- 10.5.2 Any claim, difference or dispute relating to, connected with or arising out of OIL's decision under the provision of Integrity Pact executed between OIL and the Bidder/Contractor.
- 10.5.3 Any claim, difference or dispute relating to, connected with or arising out of OIL's decision to comply with any order or directive of any statutory or government authority.
- 10.5.4 Any claim which is less than Rs. 25 Lakh.

11.0 TAX COLLECTIBLE AT SOURCE (TCS):

Tax Collectible at Source (TCS) applicable under the Income-tax Law and charged by the SUPPLIER shall also be payable by OIL along with consideration for procurement of goods/materials/ equipment. If TCS is collected by the SUPPLIER, a TCS certificate in prescribed Form shall be issued by the SUPPLIER to OIL within the statutory time limit.

Payment towards applicable TCS u/s 206C (IH) of Income Tax Act, 1961 will be made to the supplier provided they are claiming it in their invoice and on submission of following undertaking along with the invoice stating that:

- a. TCS is applicable on supply of goods invoiced to OIL as turnover of the supplier in previous year was more than Rs. 10 Cr. And
- b. Total supply of goods to OIL in FY (As applicable) exceeds Rs. 50 Lakh and
- c. TCS as charged in the invoice has already been deposited (duly indicating the details such as challan No. and date) or would be deposited with Exchequer on or before the due date and
- d. TCS certificate as provided in the Income Tax Act will be issued to OIL in time.

However, Performance Security deposit will be released only after the TCS certificate for the amount of tax collected is provided to OIL. Supplier will extend the performance bank guarantee (PBG), wherever required, till the receipt of TCS certificate or else the same will be forfeited to the extent of amount of TCS, if all other conditions of Purchase order are fulfilled.

The above payment condition is applicable only for release of TCS amount charged by supplier u/s 206C (I H) of Income tax Act, 1961.

12.0 CONCESSIONAL GST

The items covered in this Tender shall be used by Oil India Limited in the PEL/ML areas and hence concessional **GST @12%** will be applicable as per Govt. Policy in vogue.

Note: Successful bidder shall arrange to provide all necessary documents (invoice etc.) to OIL for applying Essentiality Certificate on receipt of request from OIL or at least **45 days** prior to their readiness for despatch, whichever is earlier. Further, successful bidder shall affect dispatch only on receipt of relevant certificates/shipment clearance from OIL, failing which all related liabilities shall be to supplier's account.

13.0 APPLICABILITY OF BANNING POLICY OF OIL INDIA LIMITED:

OIL's Banning Policy, 2023 will be applicable against the tender (and order in case of award) to deal with any agency (bidder/contractor/supplier/ vendor/service provider) who commits deception, default, fraud or indulged in other misconduct of whatsoever nature in the tendering process and/or order execution processes.

The bidders who are on Holiday/Banning/Suspension list of OIL on due date of submission of bid/ during the process of evaluation of the bids, the offers of such bidders shall not be considered for bid opening/evaluation/award. If the bidding documents were issued inadvertently/downloaded from website, the offers submitted by such bidders shall also not be considered for bid opening/evaluation/ Award of Work.

13.1 The bidder shall fill up and submit proforma of declaration of Blacklisting/Holiday Listing (PROFORMA – G) along with the technical bid.

14.0 PERFORMANCE SECURITY

Successful bidder will be required to furnish a Performance Bank Guarantee @3% of the order value with validity as mentioned in the tender document. The Performance Security must be submitted exactly as per **PROFORMA – H**. Bidder must confirm the same in their Technical Bid.

The Bank Guarantee issued by the bank must be routed through SFMS platform as per the following details:

- (i) MT 760/MT 760 COV for issuance of bank guarantee.
- (ii) MT 760/MT 767 COV for amendment of bank guarantee.

[Order Number should reflect in the SFMS text under MT 760/MT 760 COV]

The above message/intimation shall be sent through SFMS by the BG issuing Bank branch to ICICI Bank, Duliajan Branch, IFSC Code- ICIC0000213, Branch Address.: ICICI Bank Ltd, Kunja Bhavan, Daily Bazaar, Duliajan, Dibrugarh, Assam - 786602. The Bank details are as under:

Bank Details of Beneficiary			
Bank Name	ICICI BANK LTD.		
Branch Name	DULIAJAN		
Branch Address	KUNJA BHAVAN, DAILY BAZAAR, DULIAJAN, DIBRUGARH, ASSAM - 786602		
IFSC Code	ICIC0000213		
Unique identifier code (Field 7037)	OIL503988890		
Company name	Oil India Limited		

The vendor shall submit to OIL the copy of the SFMS message as sent by the issuing bank branch along with the original bank guarantee.

- 14.1 Performance Security shall be issued from any scheduled Indian Bank or any branch of an International Bank situated in India and registered with the Reserve Bank of India as scheduled foreign Bank in case of domestic suppliers.
- 14.2 Bank Guarantees issued by a Bank in India should be on non-judicial Stamp Paper/Franking receipt of requisite value, as per Indian Stamp Act, purchased in the name of the Banker or the Seller.
- 14.3 Bank Guarantee with condition other than those mentioned in OIL's prescribed format shall not be accepted.
- 14.4 The Bank Guarantee issued by a Bank amongst others shall contain the complete address of the Bank including Phone Nos., Fax Nos., E-mail address, Code Nos. of the authorized signatory with full name and designation and Branch Code.
- 14.5 The Performance Security shall be payable to Purchaser as compensation for any breach or loss resulting from Supplier's failure to fulfil its obligations under the Purchase Order/Contract. In the event of such default on the part of Seller, the Performance Security shall be encashed unconditionally, and the proceeds thereof shall be forfeited without any further reference to the Seller. In such an eventuality, the Seller shall be liable to face penal actions including debarment as per OIL's Banning Policy, 2023.

- 14.6 The Performance Security shall be discharged by Purchaser not later than 30 days following its expiry after completion of obligations under the order/contract. In the event of any extension to the contractual validity or delay in supply/ execution or extension of Warranty Period of the Purchase Order/Contract, validity of the Performance Security shall be extended by the Seller/Contractor by the equivalent period.
- 14.7 The Performance Security shall not accrue any interest during its period of validity or extended validity.

 OIL shall not be liable to pay any bank charges, commission or interest on the amount of Performance Security.
- 14.8 Failure of the successful Bidder to comply with the requirements of above clauses shall constitute sufficient grounds for annulment of the award and forfeiture of their Bid Security or Performance Security. The defaulting party shall also be debarred from business as per OIL's Banning Policy, 2023.
- 14.9 In case, the Performance Security in the form of a Bank Guarantee is found to be not genuine or issued by a fake banker or issued under the fake signatures, the Purchase Order placed on the bidder shall be treated as cancelled forthwith and the bidder shall be banned from participating in future tenders in accordance with the provisions of Company's Banning Policy, 2023. Further, the Bid Security submitted by such bidder shall be invoked without any further reference, besides other penal action, as the Company may think appropriate.
- 14.10 In case Annual Maintenance Contract (AMC) is required and OIL intends to enter into a separate contract with the successful bidder for AMC, the Successful bidder must undertake to submit separate Performance Security against the AMC at the applicable rate & validity to be stipulated in the contract. (3% of annualized contract value valid for three months beyond entire execution period).
- 14.11 Performance Security if submitted in the form of fixed/term deposit; the following details must be provided in the form of declaration by the vendor/party for confirmation of Term deposit/Fixed Deposit from the issuing bank.
 - (iv) Full address of the issuing bank
 - (v) Branch Code
 - (vi) Authorized signatory with full name and designation
 - (vii) Phone (Mobile) Numbers of the branch
 - (viii) Email address of the branch
 - (ix) Such fixed/term deposit must be pledged in favour of OIL and it must in the printed form on the physical original FDR in words "Pledged in favour of Oil India Limited"

Further, to avoid delay in confirmation of Fixed deposit from the issuing bank and consequent delay in processing of bills and payment, vendor/party may arrange the confirmation mail regarding issue of fixed deposit with the following details directly from bank's official email id to OIL's following e-mail id (FD PS@OILINDIA.IN):

FD NO.	Issue Date	Maturity Date	FD Amount	Beneficiary/ Contractor Name	Whether above FD is pledged in favour of 'Oil India Limited' (Yes/No)	FD amount pledged (in ₹) as per bank's books of accounts	Mode of FD Renewal (Auto Renewal/ Auto closure)	Remarks (if any) of the issuing Bank
Α	В	С	D	E	F	G	Н	1

15.0 BID SECURITY:

Bids must be accompanied by Bid Security for the amount as mentioned in the tender and shall be in the prescribed format (PROFORMA – I) as Bank Guarantee (BG) or Online payment. (Refer GeM GTC for details).

In case of the Bid Security is submitted in the form of Bank Guarantee, scanned copy of Bank Guarantee shall be uploaded by the bidder in the online bid and hard copy of the Bank Guarantee will have to be

submitted directly to OIL within the Bid Closing (BC) date and time, failing which the bid may be treated as incomplete and may lead to rejection of the bid by OIL without making any reference to the bidder.

The Original Bid Security shall be submitted manually in sealed envelope **superscribed** with tender no., tendered item detail and due date to: **GM-MATERIALS, MATERIALS DEPARTMENT, KIND ATTENTION – M. B. SINGHA, CHIEF MANAGER MATERIALS, OIL INDIA LIMITED, DULIAJAN- 786602, ASSAM.**

In case of Online payment of Bid Security, bidder shall provide the Online transaction details in their online bid as proof of submission of Bid Security to OIL. The online payment of Bid Security amount should be received in OIL's bank account on or before the Bid closing date and time failing which the offer will be rejected outright without any further reference.

OIL's Bank account Details for Online submission of Bid Security			
Name	Oil India Limited		
Bank	State Bank of India		
Branch	Duliajan		
Account Number	10494832599		
Account Type	Current		
IFSC Code	SBIN0002053		

- 15.1 Bid Security shall be issued from any scheduled Indian Bank or any branch of an International Bank situated in India and registered with the Reserve Bank of India as scheduled foreign Bank in case of domestic suppliers.
- 15.2 Bank Guarantee issued by a scheduled Bank in India at the request of some other non-scheduled Bank in India shall not be accepted.
- 15.3 Bank Guarantees issued by a Bank in India should be on non-judicial Stamp Paper/Franking receipt of requisite value, as per Indian Stamp Act, purchased in the name of the Banker or the Seller.
- 15.4 Bank Guarantee with condition other than those mentioned in OIL's prescribed format shall not be accepted.
- 15.5 The Bank Guarantee issued by a Bank amongst others shall contain the complete address of the Bank including Phone Nos., Fax Nos., E-mail address, Code Nos. of the authorized signatory with full name and designation and Branch Code.
- 15.6 The bidders will extend the validity of the Bid Security, if and whenever specifically advised by OIL, at the bidder's cost.
- 15.7 The Bid Security shall not accrue any interest during its period of validity or extended validity. OIL shall not be liable to pay any bank charges, commission or interest on the amount of Bid Security.
- 15.8 In case, the Bid Security in the form of a Bank Guarantee is found to be not genuine or issued by a fake banker or issued under the fake signatures, the bid submitted by the concerned bidder shall be rejected and the bidder shall be banned from participating in future tenders in accordance with the provisions of OIL's Banning Policy. Further, the Bid Security submitted by such bidder shall be invoked without any further reference, besides other penal action, as OIL may think appropriate.
- 15.9 In case of Bank Guarantee, the Bank Guarantee issuing bank branch must ensure the following:

The Bank Guarantee issued by the bank must be routed through SFMS platform as per the following details:

- (i) MT 760/MT 760 COV for issuance of bank guarantee.
- (ii) MT 760/MT 767 COV for amendment of bank guarantee.

[Tender Number should reflect in the SFMS text under MT 760/MT 760 COV]

The above message/intimation shall be sent through SFMS by the BG issuing Bank branch to ICICI Bank, Duliajan Branch, IFSC Code- ICIC0000213, Branch Address: ICICI Bank Ltd, Kunja Bhavan, Daily Bazaar, Duliajan, Dibrugarh, Assam – 786602. The Bank details are as under:

Bank Details of Beneficiary			
Bank Name	ICICI BANK LTD.		
Branch Name	DULIAJAN		
Branch Address	KUNJA BHAVAN, DAILY BAZAAR, DULIAJAN, DIBRUGARH, ASSAM – 786602		
IFSC Code	ICIC0000213		
Unique identifier code (Field 7037)	OIL503988890		
Company name	Oil India Limited		

The bidder shall submit to OIL the copy of the SFMS message as sent by the issuing bank branch along with the original bank guarantee.

- 15.10 The Bid Security of the unsuccessful bidders will be returned after finalization of tender whereas the Bid Security of the successful bidder will be discharged on such bidder's furnishing the Performance Security to OIL against the Purchase Order secured by the bidder within the stipulated time frame. The successful bidder will, however, extend validity of the Bid Security till such time the Performance Security is furnished.
- 15.11 For timely return of Bid Security, bidders shall submit following details alongwith their technical bid.
 - For Bank Guarantee((BG): Name, Email id, Phone number and Address where the Bid Security is to be returned by Courier.
 - Online payment: Name, Email id, Phone number and Bank details (Bank Name, Branch Name, Branch Address, IFSC Code, Unique identifier code, Company name) where the Bid Security amount shall be returned by Online transfer.

In case of non-submission of above details, return of Bid Security may be delayed.

16.0 <u>FINANCING OF TRADE RECEIVABLES OF MICRO AND SMALL ENTERPRISES (MSEs) THROUGH TRADE</u> RECEIVABLES DISCOUNTING SYSTEM (TREDS) PLATFORM.

Based on the initiatives of Government of India to help MSE vendors get immediate access to liquid fund based on Buyers credit rating by discounting, OIL has registered itself on TReDS platform with M/s RXIL and M/s A TREDS Ltd. (Invoice Mart). MSE vendors can avail this benefit by registering themselves with any of the exchanges providing e-discounting/electronic factoring services on TReDS platform and following the procedures defined therein, provided OIL is also participating in such TReDS Platform as a Buyer.

- i) MSE Vendor should be aware that all costs relating to availing the facility of discounting on TReDS platform including but not limited to Registration charges, Transaction charges for financing, Discounting Charges, Interest on financing, or any other charges known by any name shall be borne by MSE Vendor.
- ii) MSE Vendor hereby agrees to indemnify, hold harmless and keep OIL and its affiliates, Directors, officers, representatives, agents and employees indemnified, from any and all damages, losses, claims and liabilities (including legal costs) which may arise from Sellers submission, posting or display, participation, in any manner, on the TReDS Platform or from the use of Services or from the Buyer's breach of any of the terms and conditions of the Usage Terms or of this Agreement and any Applicable Law on a full indemnity basis.
- iii) OIL shall not be liable for any special, indirect, punitive, incidental, or consequential damages or any damages whatsoever (including but not limited to damages for loss of profits or savings, business interruption, loss of information), whether in contract, tort, equity or otherwise or any other damages resulting from using TReDS platform for discounting their (MSE Vendor's) invoices.

Note:

- (i) Buyer means OIL who has placed Purchase Order/ Contract on a MSE Vendor (Seller).
- (ii) Seller means a MSE vendor, who has been awarded Purchase Order/ Contract by OIL (Buyer).

17.0 UNLOADING FOR BULKY/HEAVY ITEMS:

All the Goods in the GeM shall be offered on Free Delivery at Site basis including unloading. **HOWEVER, OIL SHALL PROVIDE CRANE FOR UNLOADING OF BULKY/HEAVY ITEMS ONLY**. Supplier shall depute adequate crew, who has experience of unloading of such items at Destination (Duliajan) with necessary safety gears i.e. helmet, safety boots, hand gloves etc. at unloading point.

The safety of the crew deputed by the supplier shall entirely be the responsibility of supplier and therefore they shall take all necessary measures/precautions to ensure that no injuries occur to personnel or property. Supplier must ensure that the crew involved for unloading are properly trained on the procedures and aware of the potential hazards while handling the items.

18.0 UNLOADING OF TUBULARS:

All the Goods in the GeM shall be offered on Free Delivery at Site basis including unloading. HOWEVER, OIL SHALL PROVIDE CRANE FOR UNLOADING OF TUBULARS ONLY. Supplier shall depute adequate crew, who has experience of unloading of tubulars, at Destination (Duliajan) with necessary safety gears i.e. helmet, safety boots, hand gloves etc. at unloading point. <a href="HE ONLY RESPONSIBILITY OF THE CREW TO BE DEPUTED BY THE SUPPLIER IS TO FASTEN/FIX CRANE'S HOOK SLING TO BUNDLES ON THE LOADED VEHICLE. Once the hook sling is securely fastened complying to the safety instructions, OIL's Crane shall lift and unload tubulars from the vehicle. Following points are to be noted and complied in this connection:

- (a) Supplier to ensure that height of the loaded tubular is below the cabin height of the vehicle for safe off-loading.
- (b) Supplier to ensure that tubular bundles are securely fastened by very strong material to withstand the rigors of road transportation and capable of lifting by Crane. In the case tubular bundles are found loosened and/or tubulars found completely resting on the side support/bales of vehicle in way that it may free fall upon unshackling, OIL will not unload such vehicle due to safety reasons.

The safety of the crew deputed by the supplier shall entirely be the responsibility of supplier and therefore they shall take all necessary measures/precautions to ensure that no injuries occur to personnel or property. Supplier must ensure that the crew involved for unloading are properly trained on the procedures and aware of the potential hazards while handling tubulars.

19.0 UNLOADING OF CONSIGNMENT RECEIVED THROUGH RAIL:

Unloading of consignment from Railway Wagons at Destination (**Duliajan**) shall be completely in OIL's scope.

20.0 QUANTITY TOLERANCE FOR TUBULARS:

Bidders should note that, in the event of order, quantity tolerance of +0%/-2% of order quantity will be applicable, if otherwise mentioned elsewhere in this document.

21.0 **SET-OFF**:

Any sum of money due and payable to the Seller (including Security Deposit refundable to them) under any purchase order may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of a sum of money arising out of any other purchase order made by the Seller with Oil India Limited (or such other person or persons contracting through Oil India Limited).

22.0 FURNISHING FRAUDULENT INFORMATION/ DOCUMENT:

If it is found that a Bidder has furnished fraudulent document/information, the Bid Security/ Performance Security shall be forfeited and the party will be debarred for a period of 3(three) years from date of detection of such fraudulent act, besides the legal action. In case of major and serious fraud, period of debarment may be enhanced. In this regard, bidders are requested to submit an Undertaking as per **PROFORMA** - **J** along with their offer failing which their offer shall be liable for rejection.

23.0 MODIFICATION/AMENDMENT OF TENDER DOCUMENT: At any time prior to the deadline for submission of bids, the Company may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the tender Documents through issuance of Corrigendum(s)/Addendum(s). Bidders are expected to take the Corrigendum(s)/ Addendum(s) into account in preparation and submission of their bid. No separate intimation for Corrigendum(s)/ Addendum(s) published by OIL shall be sent to the Bidders.

24.0 GENERAL CONDITIONS OF CONTRACT FOR SERVICES (ANNEXURE - VII) Not Applicable

General Conditions of Contract FOR SERVICES (GCC - SERVICES) shall be applicable for all services to be rendered including AMC (as and when entered into).

25.0 SIGNING OF BIDS:

25.1 Bids are to be submitted online in GeM portal. The bid including all uploaded documents shall be signed by duly authorized representative of the bidder holding a Power of Attorney to bind the Bidder to the contract. The letter of authorisation (**PROFORMA-K**) shall be indicated by written Power of Attorney accompanying the Bid.

26.0 BIDDERS FINANCIAL STANDING:

The bidder should not be under liquidation, court receivership or similar proceedings and should not be bankrupt. Bidder to upload undertaking (PROFORMA-L) to this effect with bid.

27.0 GENERAL HEALTH, SAFETY & ENVIRONMENT (HSE) GUIDELINES:

- 27.1 It will be solely the Supplier's responsibility to fulfil all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely; the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. Ensure that all sub-contractors, if any, hired by Supplier comply with the same requirement as the Supplier himself and shall be liable for ensuring compliance all HSE laws.
- 27.2 It will be entirely the responsibility of the Supplier/his Supervisor/ representative to ensure strict adherence to all HSE measures and statutory rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by company's Installation Manager/Safety Officer/Engineer/Official/Supervisor/ Junior Engineer for safe operation.
- 27.3 Any compensation arising out of the job carried out by the Supplier whether related to pollution, Safety or Health will be paid by the Supplier only.
- 27.4 Any compensation arising due to accident of the Supplier's personnel while carrying out the job, will be payable by the Supplier.
- 27.5 When there is a significant risk to health, environment or safety of a person or place arising because of a non-compliance of HSE Measures, Company shall have the right to direct the Supplier to cease work until the non-compliance is corrected.

28.0 <u>DOCUMENTATION (FOR DOMESTIC/INDIGENOUS SUPPLIERS)</u>:

- 28.1 Preparation and submission of proper documents by Seller is one of the very important requirements. The Seller must strictly follow the instructions.
- 28.2 Seller shall ensure that all the documents have clear reference of OIL's Purchase Order number.
- 28.3 Seller shall forward the documents, as mentioned below, by courier service immediately after the dispatch is made:

1. WHERE PAYMENT AGAINST DIRECT SUBMISSION OF DESPATCH DOCUMENTS TO COMPANY:

A)	General Manager (A/P),	i)	Bill in original + one copy.
	Finance & Accounts Department	ii)	Copy of the C-Note/RR.
	Oil India Limited, Duliajan,	iii)	Copy of Mill Inspection Certificate, if any.
	PIN - 786602	iv)	Copy of Third-Party Inspection Certificate, if any.
		v)	Copy of Delivery Challan.
		vi)	Copy of TPI Declaration
		vii)	Copy of Tax Invoice.
		viii)	Copy of packing list.
		ix)	Documentary evidence of payment of Customs
			Duty, if any.

В)	DGM - Materials (Receiving), Materials Department Oil India Limited, Duliajan, PIN - 786602	 i) Clear Consignee copy of RR/C-Note-Original+2 copy. ii) Copy of Tax Invoice. iii) Delivery Challan (Original). iv) Packing list (Original). v) Mill inspection certificate, if any (Original). vi) Copy of Third-Party Inspection certificate, if any. vii) Copy of TPI Declaration viii) Warranty Certificate (Original)
C)	Chief Manager Materials (FP) Materials Department Oil India Limited, Duliajan, PIN - 786602	One set consisting copies of all the documents as mentioned in (B) above.

Note: Where payment is after receipt and acceptance of materials i.e. after CRAC, the complete set of documents meant for General Manager (A/P) as indicated in(A) above should be submitted to Dy. General Manager Materials (Receiving).

PROFORMA – A

FORMAT FOR CERTIFICATE OF COMPLIANCE OF FINANCIAL CRITERIA (ON THE OFFICIAL PAD OF THE BIDDER TO BE EXECUTED BY THE AUTHORIZED SIGNATORY OF THE BIDDER)

	use No. A.2 (3.0) - Financial Criteria of the BEC No.:	
	the authorized signatory(s) ofss) do hereby affirm and declare as under:-	(Company or firm name
	nnce sheet/Financial Statements for the financial year not been audited as on the Original Bid closing Date.	(as the case may be) has
	 y	Signature of the authorized
<u>Note</u> :	This certificate are to be issued only considering the ti Statements i.e. if the last date of preceding financial / acc months reckoned from the original bid closing date.	

PROFORMA – B

CERTIFICATE OF ANNUAL TURNOVER & NETWORTH

TO BE ISSUED BY PRACTISING CHARTERED ACCOUNTANTS' FIRM ON THEIR LETTER HEAD **TO WHOM IT MAY CONCERN** This is to certify that the following financial positions extracted from audited financial statements of M/s...... (Name of the bidder) for the last 3 (three) completed accounting years upto.....(as the case may be) are correct. TURNOVER **NET WORTH YEAR** In INR (Rs.) Crores/ In INR (Rs.) Crores / **USD Million* USD Million*** *Rate of conversion (if used any): USD 1.00 = INR Place: Date: Seal:

Membership No.: Registration Code:

Signature:

NOTE: As per the guidelines of ICAI, every practicing CA is required to mention Unique Document Identification Number (UDIN) against each certification work done by them. Documents certified by CA without UDIN shall not be acceptable.

^{*}Applicable for Global Tenders.

PROFORMA – C

PARENT/ ULTIMATE PARENT/ HOLDING COMPANY'S CORPORATE GUARANTEE TOWARDS FINANCIAL STANDING (Delete whichever not applicable) (TO BE EXECUTED ON COMPANY'S LETTER HEAD)

DEED OF GUARANTEE

THIS DEED OF GUARANTEE executed at this day of by M/s					
for suppo where gone t	EAS M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their Tender No				
Now,	it is hereby agreed by the Guarantor to give this Guarantee and undertakes as follows:				
1. 2. 3.	The Guarantor confirms that the Bidder is a 100% subsidiary of the Guarantor. The Guarantor agrees and confirms to provide the Audited Annual Reports of any of the preceding 03(three) financial/accounting years reckoned from the original bid closing date. The Guarantor have an annual financial turnover of minimum INR				
	during any of the preceding 03(three) financial/ accounting years reckoned from the original bid closing date.				
4.	Net worth of the Guarantor is positive for preceding financial/ accounting year.				
5.	The Guarantor undertakes to provide financial support to the Bidder for executing the project/job, in case the same is awarded to the Bidder.				
6.	The Guarantor represents that:				
	(a) this Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Bidder.(b) the liability of the Guarantor, under the Guarantee, is limited to the 100% of the order value between the Bidder and OIL. This will, however, be in addition to the forfeiture of the Performance Guarantee				
	furnished by the Bidder. (c) this Guarantee has been issued after due observance of the appropriate laws in force in India.				
	(d) this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of New Delhi, India.				
	(e) this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.				
	(f) the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.				
Г	for and on hohalf of (Parent/Ultimate Parent/ for and on hohalf of (Piddor)				
	for and on behalf of (Parent/Ultimate Parent/ for and on behalf of (Bidder) Holding Company) (Delete whichever not				
	applicable) Witness:				
	1.				
	Witness: 2.				
	1.				
	2.				

PROFORMA - D

INTEGRITY PACT

Between

Oil India Limited (OIL) hereinafter referred to as "The Principal"

And

(Name of the bidder)......hereinafter referred to as "The Bidder/Contractor"

Preamble:

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organization "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section: 1 - Commitments of the Principal

- (1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (i) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
 - (ii) The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.
 - (iii) The Principal will exclude from the process all known prejudiced persons.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officers and in addition can initiate disciplinary actions.

Section: 2 - Commitments of the Bidder/Contractor

- (1) The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - (i) The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which h e/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - (ii) The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, Subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

- (iii) The Bidder (s) / Contractor (s) will not commit any offence under the relevant Anticorruption Laws of India, further, the Bidder (s) / Contractor (s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- (iv) The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- (v) Bidders to disclose any transgressions with any other company that may impinge on the anticorruption principle.
- (vi) The Bidder (s)/ Contractor (s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder (s)/ Contractor (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further, all the payments made to the Indian agent/ representative have to be in India Rupees only.
- (vii) Bidders not to pass any information provided by Principal as part of business relationship to others and not to commit any offence under PC/ IPC Act;
- The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- (3) The Bidder/Contractor signing Integrity Pact shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future Contracts

If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or risibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

- 1. If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.
- 2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
- 3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.
- 4. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.
- 5. Integrity Pact, in respect of a particular contract, shall be operative from the date Integrity Pact is signed by both the parties till the final completion of the contract **or as mentioned in Section 9-Pact Duration whichever is later**. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings. Any issue relating to execution of contract, if specifically raised before the IEMs shall be looked into by IEMs.

Section 4 - Compensation for Damages

- (1) If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to Earnest Money Deposit / Bid Security.
- (2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to Security Deposit / Performance Bank Guarantee.
- (3) The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 - Previous transgression

- (1) The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section: 6 - Equal treatment of all Bidders/Contractor/Subcontractors

- (1) The Principal will enter into Pacts on identical terms with all bidders and contractors.
- (2) The Bidder / Contractor undertake(s) to procure from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the provisions laid down in this agreement/Pact by any of its sub-contractors/sub-vendors.
- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section: 7 - Criminal charges against violating Bidders/Contractors/ Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section: 8 -External Independent Monitor/Monitors

- (1) The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.
- (3) The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.

- (4) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the Independent External Monitor shall give an opportunity to the bidder / contractor to present its case before making its recommendations to the Principal.
- (6) The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
- (7) If the Monitor has reported to the Chairperson of the Board a Substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- (8) The word 'Monitor' would include both singular and plural.
- (9) In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.

Section: 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairperson of the Principal.

Section: 10 - Other provisions

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
- (2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (3) If the Contractor / Bidder is a Joint Venture or a partnership concern or a consortium, this agreement must be signed by all partners or consortium members. In case of sub-contracting, the Principal contractor shall take the responsibility of the adoption of IP by the sub-contractor and all sub-contractors shall also sign the IP.
- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
- (5) Issues like warranty / guarantee, etc. shall be outside the purview of IEMs.

M. B. SINGHA	
For the Principal	For the Bidder/Contractor
Date: 20.01.2023	Witness 1:
Place: Duliajan	Witness 2:

PROFORMA – E

UNDERTAKING FOR LOCAL CONTENT

(To be submitted in the letter head of the bidder)

We,	(Name o	of the bidder) have submitted Bid against
		of Oil India Limited.
We hereby undertake that we	meet the mandatory minimum local cor	ntent requirement as per the provision of
Public Procurement (Preference	e to Make in India) Order, 2017 of De	partment for Promotion of Industry and
Internal Trade (DPIIT), Govt. of	India as revised vide Order No. P45021	/2/2017-PP (BE-II) dated 16th September
2020 (and as amended time to	time) with modifications as notified vid	de MoP&NG Order No. FP-20013/2/2017-
FP-PNG-Part (4) (E-41432) date	d 26th April 2022. The percentage of Loca	al Content in the bid is %.
	For and on behalf o	of
	r or and on benan o	··
	Authorized signator	У
	Name	
	Contact No	

PROFORMA - F(I)

UNDERTAKING TOWARDS COMPLIANCE OF PROVISIONS FOR RESTRICTIONS ON PROCUREMENT FROM A BIDDER OF A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

(To be typed on the letter head of the bidder)

Ref. No		Date:
Tender No.	Date:	
OIL INDIA LIMITED MATERIALS DEPARTMENT, DULIAJAN, ASSAM, INDIA		
Dear Sirs,		
a country which shares a land a country, have been registere	, have read the clause regarding restriction border with India; we certify that we are not with the Competent Authority. We hereby to be considered. [wherever applicable, attached]	ot from such a country/or if from such y certify that we fulfil all requirements
Yours faithfully, For (type name of the firm her	e)	
Signature of Authorised Signat Name: Designation: Phone No. Place: Date: (Affix Seal of the Organization		

PROFORMA – F(II)

UNDERTAKING FOR WORKS INVOLVING POSSIBILITY OF SUB-CONTRACTING

(To be typed on the letter head of the bidder)

Ref. No		Date:
Tender No	Date:	_
OIL INDIA LIMITED MATERIALS DEPARTMEN' DULIAJAN, ASSAM, INDIA		
Dear Sirs,		
a country which shares certify that we are not for Authority and will not registered with the Com	a land border with India and or rom such a country/or if from s sub-contract any work to a co petent Authority. We hereby o	te regarding restrictions on procurement from a bidder of in sub-contracting to contractors from such-countries, we such a country, have been registered with the Competent contractor from such countries unless such contractor is certify that we fulfil all requirements in this regard and is since of valid registration by the Competent Authority shall
Yours faithfully, For (type name of the fire	rm here)	
Signature of Authorized Name: Designation: Phone No. Place: Date: (Affix Seal of the Organiz	Signatory zation here, if applicable)	

PROFORMA - F(III)

ADDITIONAL UNDERTAKING BY BIDDER IN CASES OF SPECIFIED TRANSFER OF TECHNOLOGY

(To be typed on the letter head of the bidder)

Ref. No_____ Date:_____ Tender No. ______ Date:_____ **OIL INDIA LIMITED** MATERIALS DEPARTMENT, **DULIAJAN, ASSAM, INDIA** ______, have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. We certify that we do not have any ToT arrangement requiring registration with the competent authority. OR We, M/s _____, have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. We certify that we have valid registration to participate in this procurement. [Evidence of valid registration by the Competent Authority shall be attached] Yours faithfully, For (type name of the firm here) Signature of Authorised Signatory Name: Designation: Phone No. Place: Date: (Affix Seal of the Organization here, if applicable)

<u>PROFROMA – G</u>

PROFORMA OF DECLARATION OF BLACKLISTING / HOLIDAY LISTING
TO,
GM- MATERIALS MATERIALS DEPARTMENT P.O. DULIAJAN, PIN-786602 DIST. DIBRUGARH, ASSAM, INDIA
Dear Sir,
Sub: OIL's Tender No
We hereby declare that we are presently neither placed on any holiday list or blacklist declared by OII India Limited, nor any inquiry is pending by Oil India Limited in respect of corrupt or fraudulent practice.
It is understood that if this declaration is found to be false in any particular, Oil India Limited shall have the right to reject my/our bid, and if the bid has resulted in a contract, the contract is liable to be terminated without prejudice to any other right or remedy (include blacklisting or holiday listing) available to Oil India Limited.
For and on behalf of
Authorized signatory
Name
Contact No.

PROFORMA - H

FORMAT FOR PERFORMANCE BANK GUARANTEE

To.

GENERAL MANAGER - MATERIALS (HOD)

OIL INDIA LIMITED, MATERIALS DEPARTMENT, DULIAJAN, ASSAM, INDIA, PIN – 786602 WHEREAS.....(Name and address of Contractor) (hereinafter called "Contractor") had undertaken, in pursuance of Contact No...... to execute (Name of Contract and Brief Description of the Work) (hereinafter called "the Contract"). AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee as security for compliance with Contractor's obligations in accordance with the Contract. AND WHEREAS we (May incorporate the Bank Name) have agreed to give the Contractor such a Bank Guarantee; NOW THEREFORE we hereby affirm that we are Guarantors on behalf of the Contractor, up to a total of (Amount of), such amount being payable in the types and proportions of currencies in which the Contract price is payable, and we undertake to pay you, upon your first written demand and without cavil or arguments, any sum or sums within the limits of guarantee sum as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the Contract or the work to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way cease us from any liability under this guarantee, and we hereby waive notice of such change, addition or modification. This guarantee is valid until theday ofday The details of the Issuing Bank and Controlling Bank are as under: Issuing Bank: BANK FAX NO: BANK EMAIL ID: BANK TELEPHNE NO: IFSC CODE OF THE BANK: Controlling Office: Address of the Controlling Office of the BG issuing Bank: Name of the Contract Person at the Controlling Office with Mobile No. and e-mail address: Notwithstanding anything contained herein: (a) Our liability under this Bank Guarantee shall is restricted up to Rs..... (b) This guarantee shall be valid till (c) We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before(Date of Expiry of BG PLUS one year claim period). (d) At the end of the claim period that is on or after......(Date of expiry of......the Bank Guarantee Plus Minimum of 1 year claim period shall be stipulated) all your rights under this Guarantee shall stand extinguished and we shall be discharged from all our liabilities under this Guarantee irrespective of receipt of original Bank Guarantee duly discharged, by Bank. Name of the Contact Person at the Controlling Office with Mobile No. and e-mail address: SIGNATURE AND SEAL OF THE GUARANTORS..... Designation: Name of the Bank:.... Address:.....

UNDERTAKING BY VENDOR ON SUBMISSION OF BANK GUARANTEE

il India Limited, laterials Department, uliajan, Assam - 786602	
	are submitting the Bid Security/Performance Security (stril of Oil India Limited, Duliajan in the form of bank guarantee bearing
	for an amount of INRval
to as per terms and	conditions of Tender / Contract No
G issuing bank details:	
Bank:	
Branch:	
IFS Code:	
Contact Details	
E-mail Addresses:	Mobile No.: Telephone
	No.: Fax No.:
Correspondence Address	
H No./Street/City:	State: Country:
	Pin Code:
<u>Declaration</u> :	
No have arranged to cond the confirmat	ion of issuance of the bank guarantee via SFMS portal through our
_	ne tender and hereby confirming the correctness of the details
nentioned.	
	Authorized Signature:
	Name:
	Vendor Code:
	Email ID:

Enclosure: Original bank guarantee

PROFORMA - I

BID SECURITY FORM

To:
M/s. OIL INDIA LIMITED,
MATERIALS DEPARTMENT

Whereassubmitted their Bid NoASSAM, INDIA (hereinafter called the Purchase	dated aş	gainst OIL INDI	A LIMITED, DULIAJA	N,
supply of				
'the Bid')KNOW ALL MEN by these presents.				
That we				
office atbound unto the Purchaser, in the sum of		•	·	
for which payment well and truly to be made assigns by these presents.				
Sealed with the said Bank this	day of			

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws their Bid during the period of Bid validity specified by the Bidder,

or

- 2. If the Bidder, having been notified of the acceptance of their bid by the Purchaser during the period of bid validity:
 - a) fails or refuses to accept the order; or
 - b) fails or refuses to furnish the performance security

or

3. If the Bidder furnishes fraudulent document/information in their bid.

We undertake to pay to the Purchaser up to the above amount upon receipt of their first written demand (by way of letter /fax/Email) without the Purchaser having to substantiate their demand, provided that in their demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of any of the conditions, specifying the occurred condition or conditions.

The details of the Issuing Bank and Controlling Bank are as under:

A. Issuing Bank:

BANK FAX NO: BANK EMAIL ID: BANK TELEPHONE NO.: IFSC CODE OF THE BANK:

B. Controlling Office:

Address of the Controlling Office of the BG issuing Bank: Name of the Contact Person at the Controlling Office with Mobile No. and e-mail address:

Notwith	nstanding anything contained herein:
a)	Our liability under this Bank Guarantee shall is restricted up to Rs
b)	This guarantee shall be valid till
c)	We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only
	if you serve upon us a written claim or demand on or before (Date of Expiry of BG PLUS one year claim period).
d)	At the end of the claim period that is on or after
	Guarantee Plus Minimum of 1 year claim period shall be stipulated) all your rights under this Guarantee shall stand extinguished and we shall be discharged from all our liabilities under this Guarantee
	irrespective of receipt of original Bank Guarantee duly discharged, by Bank.
	, , ,
Name o	of the Contact Person at the Controlling Office with Mobile No. and e-mail address:
SIGNAT	URE AND SEAL OF THE GUARANTORS
	ation:
	of Bank:
Address	S:
Place: _	

PROFORMA - J

FORMAT OF UNDERTAKING BY BIDDERS TOWARDS SUBMISSION OF AUTHENTIC INFORMATION/DOCUMENTS

(To be typed on the letter head of the bidder)

Ref. No	Date
To,	
General Manager (Materials) Materials Department Oil India Limited, Duliajan	
Sub: Undertaking of authenticity of information/document Ref: Your tender No Dated	ts submitted
Sir,	
With reference to our quotation no da hereby undertake that no fraudulent information/documen	ated against your above-referred tender, we ts have been submitted by us.
We take full responsibility for the submission of authentic in	nformation/documents against the above cited bid.
submitted by us are found to be false/forged/fraudulent, O	act agreement, in case any of the information/documents IL has right to reject our bid at any stage including forfeiture at and/or carry out any other penal action on us, as deemed
Yours faithfully, For (type name of the firm here)	
Signature of Authorised Signatory	
Name: Designation: Phone No. Place: Date:	
(Affix Seal of the Organization here, if applicable)	

PROFORMA – K

LETTER OF AUTHORITY

TO, **GM- MATERIALS MATERIALS DEPARTMENT** P.O. DULIAJAN, PIN-786602 DIST. DIBRUGARH, ASSAM, INDIA Dear Sir, Sub: OIL's Tender No. _____ _____of_____(Name and address) is We confirm that Mr. authorised to represent us to Bid, negotiate and conclude the agreement on our behalf with you against OIL's Tender No. ______for any commercial /Legal purpose etc. We confirm that we shall be bound by all and whatsoever our said representative shall commit. Authorised Person's Signature: _____ Designation: Yours faithfully, Signature: _____ Name & Designation: _____ For & on behalf of: _____

Note: This letter of authority shall be on printed letter head of the Bidder and shall be signed by a person competent and having the power of attorney (power of attorney shall be annexed) to bind such Bidder.

PROFORMA – L

UNDERTAKING FOR BIDDERS FINANCIAL STANDING

TO,

GM- MATERIALS MATERIALS DEPARTMENT P.O. DULIAJAN, PIN-786602 DIST. DIBRUGARH, ASSAM, INDIA	
Dear Sir,	
Sub: OIL's Tender No	
We,dated	(Name of the bidder) have submitted Bid against Tender of Oil India Limited. We hereby undertake
	hip or similar proceedings and we are not bankrupt.
	For and on behalf of
	Authorized signatory
	Name
	Designation
	Contact No.

PROFORMA – M

EXCEPTION / DEVIATION PROFORMA

Oil India Limited expects the bidders to fully accept the terms and conditions of the bidding documents. However, should the bidder experience some exception and deviations to the terms of the bidding documents, the same should be indicated here and put in unpriced bid. In order to be considered responsive, Bidder's offer must specifically include the following statement:

la	We certify that ou	r offer complied	with all NIT re	quirements and si	necifications wit	hout any deviations.
١a	, vvc certiiv tiiat ou	il Offer Colliblies	o with an inii it	uun enients anu s	Decincations wit	nout any acviations

Or

(b) We certify that our offer complies with all NIT requirements and specifications with the following deviations:

Clause No. of Bidding	Full compliance/ not	Exception/ deviations	Remarks
Document	agreed	taken by the Bidders	

Signature of the Bidder:	
Name:	

Seal of the company

PROFORMA – N

PROFORMA OF AUTHORISATION LETTER FOR ATTENDING TENDER OPENING

Ref No.	Date:					
TO, GM- MATERIA MATERIALS DE P.O. DULIAJAN DIST. DIBRUG <i>A</i>	PARTMENT					
Dear Sir,						
Sub: OIL's Tenc	der No					
		confirm that Mr. oid opening on our bel				
					Yours Faithfully,	
		,	Authorised Person's Signature:			
		1	Name:			
			Signature of Bidder:			
		ſ	Name:			
		L	Date:			

Note: This letter of authority shall be on printed letter head of the Bidder and shall be signed by a person who signs the bid.

<u>ANNEXURE – VI</u>

BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION)

	BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION) (TO BE FILLED IN BY BIDDER DULY SIGNED)				
SL. NO.	SECTION/ SUB-SECTION	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location in their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)	
1.0	SCOPE OF SUPPLY	 1.1 The scope of work includes Supply, Installation and Commissioning of Natural Gas Engine Driven Generator sets (GEGs) at OIL's Site with field testing and reliability run. 1.2 The GEG sets of rating and output specified herein shall be all new and shall be housed inside weather-proof acoustic enclosure. Also, it shall be complete with all accessories including electrical control panel (inside the acoustic enclosure), safety devices and shall be mounted on oil-field skid for safe lifting and transportation. 1.3 Rating and output of Generator Set: 25 kVA (20 kWe), 415 Volts 3 phase, 0.8 pf (lag), 50 Hertz, prime duty as per IS/ISO 8528 (Part 1 to 12, Latest Version) Standard with 10% overload capacity. 			
2.0	GENERAL REQUIREMENTS	 2.1 The generator set shall be sturdy, rugged, proven and extremely reliable and durable. The generator set shall be suitable for operation in oil and gas field installations with field gas from the oil and gas field, in solo island mode operation and outdoor deployment. 2.2 Electrical loads shall be utilities, induction motors and UPS. 2.3 The generator set shall be suitable for frequent moves from site to site. 2.4 The components of the complete generator set shall be of such design to satisfactorily function under all conditions of operation. 2.5 The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice. The entire installation shall be such as to cause minimum transmission of noise and vibration to the site. 2.6 All equipment and materials to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance 			

	BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION)			
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		 and proper after-sales service. 2.7 Bidder shall provide all related components and auxiliaries of generating set as part of the package 2.8 Bidder shall furnish all relevant data of complete package as per ANNEXURE-III (Data Sheet) 		
3.0	CODES & STANDARDS	 3.1 All equipment in the offer shall conform, but not limited, to the following latest edition of relevant codes & standards. 3.2 ISO 3046/1/ BS5514 or equivalent Indian/ International Standard: Specification for reciprocating internal combustion engines 3.3 IS/ISO 8528 (Part 1 to 12): Reciprocating Internal Combustion Engine Driven Alternating Current Generating Sets 3.4 IS: 10000(Part-iv) (or) (ISO: 3046) (Latest edition): Declaration of power, efficiency, fuel (NG) and lube oil consumption for gas engine. 3.5 IS: 10002: Specification for performance requirement for constant Speed Engines (above 20 kW). 3.6 IS: 12065 Noise limit 3.7 IS: 13364 Specification of Alternator coupled with IC Engines 3.8 IS: 12075 Vibration 3.9 IS: 4691 Enclosure Protection 3.10 IS: 6362 Cooling 3.11 IS: 2253 Mounting 3.12 In case of bidder's inability to use the mentioned codes and standards, the bidder/manufacturer shall indicate his proposed codes and standards defining in detail for using the same. OIL may review the bidder's proposed codes and standards for approval of the same. 		
4.0	SITE CONDITIONS	The ambient condition of the generator sets shall be: 4.1 Maximum Ambient Temperature : 45°C		
		4.2 Minimum Ambient Temperature : 05°C		

		BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION)		
SL. NO.	SECTION/ SUB-SECTION	(TO BE FILLED IN BY BIDDER DULY SIGNED) DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location in their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
		 4.3 Maximum Humidity at 21°C : 100 % 4.4 Maximum Humidity at 35°C : 95 % 4.5 Maximum Humidity at 41°C : 70 % 4.6 Maximum Altitude above sea level : 150 Meter 		
5.0	COMPOSITION OF FUEL GAS AT SITES & GAS PURIFICATION	5.1 The composition of Onsite field gas or wellhead gas sourced from nearby oil field is furnished below. Presence of natural gas liquids in the raw gas along with crude and other troublesome impurities is very common. 5.2 The composition of the gas is broadly as under:		
		CONSTITUTION a) Methane 85.7 - 93.52 b) Ethane 2.45 - 6.55 c) Propane 1.28 - 3.12 d) Nitrogen 0.53 - 1.21 e) Carbon-dioxide 0.01 - 0.57 f) Iso-Butane 0.31 - 0.75 g) N-Butane 0.19 - 0.47 i) N-Pentane 0.17 - 0.38 j) Hexane 0.34 - 1.16 k) Gravity 0.6204 - 0.6919 l) Gross Calorific Value m) Net Calorific Value 8704.3 - 9595.4 Kcal/SCUM m) Net Calorific Value 8704.3 - 9595.4 Kcal/SCUM n) Moisture content 21.0 - 120.0 LB/MMCFT (336.0 - 1992.0 KG/MMSCM) NOTE: Though the given methane content is in the range of 85.7 - 93.52% by volume, the bidders shall consider while selecting engine and its configuration, methane content of field gas to		

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		 be as low as 80% by volume and highly aggressive. The engine shall work trouble free without knocking or pre-ignition and without having to de-rate on ground of gas quality. The field gas shall be fed through scrubber and at 20-30 PSIG at upstream of gas train. 6.3 A gas scrubber adequate for full load operation of the generator set shall be included in the scope of supply in the fuel system of genset. 			
6.0	GAS ENGINE AND GENERATOR SET RATING/ CAPACITY:	 6.1 The generator set shall be rated for a prime power duty of capacity 25 KVA (20 kWe) at 0.8-PF (lag) with an output of 34.8 amperes (minimum) while generating 415 Volt AC, 3-phase, 50 Hz power (at 1500 RPM), and the rated output shall be available at the generator output terminals with the given gas composition as engine fuel. 6.2 The generating set shall meet the latest CPCB norms as per Government of India notifications for Genset run on dedicated Natural Gas (NG). 6.3 Generator set shall be ready-to-use type and suitable to operate on the given gas composition. It shall be configured to accept aggressive raw natural gas/field gas or well head gas. 6.4 The engine should have user friendly engine control display with metering, monitoring, diagnosing and protecting features all integrated with the controller of the engine. 6.5 Engine and alternator shall bear Name Plate revealing in it details of ratings published by the OEM of the engine and alternator. The following clause nos. 6.6 to 6.10 shall be certified by the engine manufacturer: (Certificate/ declaration from the Engine Manufacturer to be submitted by the bidder) 6.6 Engine rating/ output (w.r.t. compression ratio and rpm) and block load capability, pertaining to the engine with the offer 6.7 The gas engine shall have in-cylinder design to meet the latest CPCB emission norms. 			

		BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION) (TO BE FILLED IN BY BIDDER DULY SIGNED)		
SL. NO.	SECTION/ SUB-SECTION	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location in their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
7.0	ALTERNATOR	6.8 The engine shall be standard design of the original manufacturer designed primarily for generator set application in accordance with ISO 3046/BS5514/ IS/ISO8528 standards and with high tolerance for variable quality of gaseous fuels (field gas). 6.9 The engine shall be a four-stroke, spark-ignited, radiator cooled, naturally aspirated/turbocharged in-line engine with mechanical governing/Electronic Engine Control Unit (ECU) controller capable of meeting the rated output and duty of the generator set with 1500 RPM as speed, compression ratio not exceeding 12:1 and power of the engine shall be suitable to meet the rated output of the genset. It shall also be capable to operate without any external ventilation system and shall be configured to accept aggressive raw natural gas/field gas or well head gas. 6.10 Engine BHP with natural gas calorific value 970BTU/CFT as engine fuel and at 1500 RPM and Compression Ratio not exceeding 12:1. (Refer SECTION A for Specification of Electrical Items)		
7.0	AND CONTROL PANEL AND OTHER ELECTRICAL ITEMS:	Note: (i) The specification for electrical items in SECTION A shall have over-riding value and shall be followed for that particular item/work, wherever they differ from specifications given in other annexure. (ii) Engine & Alternator shall be supplied with independent lifting hooks/eye bolts for safe Handling		
8.0	GAS ENGINE FEATURES, COMPONENTS, AND ACCESSORIES:	The specifications given hereunder are general in nature and shall be subject to the standard practice of the engine manufacturer. However, the ignition and governor with the engine shall be as per the given specification provided under in the respective subsection here under. Bidder/manufacturer shall be responsible for providing gas engine driven generating set as per standard practice with the specified technical requirements suitable for Prime Rated Power (PRP) Operation. 8.1 STARTING SYSTEM - Electrical start complete with batteries. The engine starting system shall include 12 volts/24 volts DC starting motor(s), starter relay, and automatic reset circuit breaker to protect against butt engagement. Batteries shall		

		BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION) (TO BE FILLED IN BY BIDDER DULY SIGNED)		
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		be maintenance free, lead acid type/ gel based, mounted near the starting motor. Corrosion resistant or coated steel battery rack shall be provided. Required cables shall be furnished and sized to satisfy circuit requirements. 8.2 CHARGING SYSTEM – Suitable independent standard battery charging system as per OEM design for charging of batteries as used in above starting of the engine shall be provided. 8.3 AIR INTAKE SYSTEM - shall include dry type paper filters element and vacuum indicator for servicing air cleaner as per manufacturer standard. Maximum air intake restrictions with clean and choked filters shall be within prescribed limit of the OEM/ manufacturer recommendation for the particular model of the engine. Air cleaners shall be either medium or heavy as per manufacturer standard for gen set application. 8.4 LUBRICATION SYSTEM - forced feed pressure lubrication system with lubrication oil filters with replaceable elements as per manufacturer standard. Necessary gear driven oil pump for lubricating oil, oil coolers, priming of engine bearing as per manufacturer recommendations. The sump shall have adequate capacity to continue operation up to 500Hrs. /1000 Hrs. without Lube Oil Change. 8.5 FUEL SYSTEM - fuel system shall comprise isolation valve, gas filter, gas scrubber, gas pressure reducer, solenoid valves, etc. Gas shall be available at around 20-30 psig pressure at gas train inlet. Gas engine shall be suitable to operate at this pressure. 8.6 IGNITION SYSTEM- The ignition system shall be a high energy digital, capacitor-discharge system (preferably Altronic CD200) or as per Manufacturer's standard designed for use on small, 1-to-8-cylinder industrial gas engines having the following features: • Universal, low-cost, microprocessor-based programmable configuration to select the feature set appropriate to the application: • Timing curves vs. RPM or analog signal, • Selectable spark energy,		

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		 Individual cylinder timing adjustment, Adjustable overspeed trip, Comprehensive diagnostics for troubleshooting Windows™-based terminal program for configuration and monitoring, Modbus RTU communications and monitoring 			
		8.7 GOVERNOR - The governor (electronic/ mechanical) shall be compatible with the ignition system specified in clause no. 8.6 above and capable of isochronous frequency regulation from no load to full rated load. It shall control engine speed and transient load response to meet ISO 8528 G2/G3 performances and tolerances. It shall be selected, installed, and tested by the engine manufacturer.			
		Note: The engine speed shall be so maintained that frequency variation at constant load including no load shall remain within a band of 1% of rated frequency.			
		8.8 ENGINE EXHAUST SYSTEM- Exhaust system with smooth bends to create minimum back pressure, with suitable residential grade silencer (at optimum location) to reduce the noise level upto 75 dB and inbuilt Spark Arrestor. The silencer shall have an end inlet and end outlet with its horizontal tail end with 45 degrees downward cut to avoid rainwater entry or with rain cap vertical end. The exhaust flexible shall have its free length when it is installed.			
		The exhaust shall be terminated above the building / enclosure. The termination height shall be calculated with following formula: H = h + 0.2 x square root-over of kVA, where H = Height of termination (in Meter), h = height of Building / Enclosure (in Meter)			

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		b) Exhaust piping shall be of MS pipe (Schedule B) conforming to relevant IS. The runs forming part of the factory assembly on the engine flexible connections upto the exhaust silencer shall be exclusive of exhaust piping item. 50mm thick loosely bound resin (LBR) mattress/mineral wool/Rockwool, density not less than 120kg/sq. meter and 0.6mm thick aluminium shall be used for cladding work. Load or stress shall be prevented on the turbocharger.			
		8.9 NOISE and EMISSION COMPLIANCE: Test certificates towards compliance of noise and emission norms as per latest CPCB II guidelines for gas engine and generator set shall be furnished along with the technical bid. The bid will be liable to be rejected in the event of non-submission of the CPCB compliance certificates.			
		8.10 COOLING SYSTEM - System shall be designed for ambient temperature of 40 Deg C. It shall have closed coupled radiator subject to the engine manufacturer's standard design.			
		 8.11 ACCESSORIES: The engine shall be fitted with the following accessories subject to the design of the manufacturer: a) Engine over speed protection. b) Vibration dampeners. c) Non sparking guard for coupling d) Dynamically balanced Flywheel e) Necessary flexible coupling and guard for alternator and engine f) Rain Cap for vertical Exhaust Emission 			
		8.12 INSTRUMENTATION & CONTROLS: Engine shall be provided with the following instruments and controls for the efficient operation and safety. It shall be simple and easy to operate and maintain. All controls shall operate in fail-safe mode.			

		BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION)		
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		 a) Start/ Stop Switch b) Battery Charging Indication c) Lube oil pressure indication, alarm and shut down d) Low lube oil trip indication e) Water temperature indication f) High water temperature indication, alarm and shut down g) RPM indication h) Over-speed indication, alarm and shut down i) Engine hours indication j) Engine Fail System: Engine Stop function shall be possible by two independent devices: (a) Automatic cutting off the gas fuel supply and (b) or as per manufacturer's standard. 		
9.0	ACOUSTIC ENCLOSURE	(Refer <u>SECTION B</u> for specification of Acoustic enclosure, Enclosure Illumination and Enclosure Earthing Arrangement.)		
10.0	ONLINE GAS MONITORING SYSTEM	Continuous Online Gas Monitoring System, as specified here under, shall be installed inside the Acoustic Enclosure. 10.1 Detector / Gas Sensors: Minimum 02 nos. of sensors shall be provided 10.2 Type: IR (Infrared), suitable for detection of Natural Gas (By Volume CH4: 89.538 %, N2: 1.004 %, CO2: 0.543 %, C2H6: 4.132 %, C3H8: 2.491 %, Others: 2.292 %) 10.3 Range: 0 to 100 % LEL 10.4 Operating Temperature: 0 to 50 Deg C 10.5 Display: Digital LCD Display 10.6 Alarm Setting: Variable 10.7 Shut down setting: Variable 10.8 Control system: Suitable control system to be provided for alarm and safety shut down of the engine 10.9 Sensor calibration: Adjustment of Zero & Span on-site Non-Intrusive one man calibration shall have facility to calibrate the instrument on spot without		

		BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION) (TO BE FILLED IN BY BIDDER DULY SIGNED)		
SL. NO.	SECTION/ SUB-SECTION	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location in their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
		disconnecting from power supply by using any portable hand held intrinsically safe calibrator. 10.10 Detectors must be suitable for hazardous environment i.e., Zone 1 & Zone 2 hazardous area Gas Group IIA & IIB. 10.11 Copy of Test Certificates from any NABL accredited test laboratories for the quoted Detector / Sensors, tested and approved as per relevant Indian/International Standard must be submitted along with the supply, as per OMR 2017		
11.0	SKID	Engine and Alternator shall be directly coupled or coupled by means of flexoplate /flexible coupling as per manufacturer standard design and both units shall be mounted on a suitable designed common bed plate together with all auxiliaries to ensure perfect alignment of engine and alternator with minimum vibrations. The bed plate shall be suitable for installation on suitable anti-vibration mounting system. The bidders are advised to note that the generator set shall be moved frequently from location to location thereby prone to abuse of transportation. The skid/base shall be designed to help protect against damage and misalignment that could result while the unit is being moved. It shall be such that it shall help to isolate the generator set from impact loads that occur during movement and from distortions of the skid/base resulting from rough handling, protecting the generator driveline and its alignment.		
12.0	PAINTING & PACKING	 12.1 Painting shall be done as per standard practice of manufacturer. 12.2 The packing shall be roadworthy for transportation up to site, sufficiently robust to withstand rough handling. 12.3 Boxes/packing cases containing electrical equipment shall be waterproof lined. 12.4 All the matters on the control panel shall be packed separately for mounting at site or mounted in such a manner to prevent transit damage 12.5 All manuals, books, digital items (CDs) shall be separately packed and contained in rigid plastic pouches. 12.6 All manuals, drawings, documents, and digital items of engine shall be packed in 		

	BID EVALUATION MATRIX (TECHNCIAL SPECIFICATION) (TO BE FILLED IN BY BIDDER DULY SIGNED)				
SL. NO.	SECTION/ SUB-SECTION	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location in their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)	
		one separate container and the container shall be separately handed over to OIL			
13.0	EQUIPMENT DATA SHEET AND NAME PLATE/	at delivery of the Gen sets. 13.1 EQUIPMENT DATA SHEET (Refer ANNEXURE-III for details of data sought)			
	MARKING	13.2 NAME PLATE The following data shall be engraved on the name plate:			
		13.2.2 Gas Engine: Manufacture's Name, Model, Sl. No. & Year of Manufacture, Rated BHP, Rated RPM, Weight in Kg., OIL's Purchase Order No.			
		13.2.3 Alternator: Manufacturer's Name, Sl. No: Type & Frame Ref, Rated Output in kVA & kW, Type of Duty, Rated Power Factor, Frequency, Rated Voltage, Number of Phases & Type of Connection, Rated Speed (RPM), Class of Insulation, Excitation Current & Voltage at Rated Out Put, Year of Manufacture &, Weight in Kg., OIL's Purchase Order No.			
		13.3 Marking: The genset system should be clearly and permanently painted on the outside of the enclosure with the following information:			
		(c) WBS no: (OIL will provide the WBS no.) (d) Order no:			
14.0	SPARE PARTS	14.1 The following spare parts required for two-year operation and maintenance of the engine shall be supplied along with the Order. Bidders shall provide the price, along with the part numbers, of the following spares that we envisage shall be required for maintenance of the genset for at least two years.			

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		Gas Engine: (i) Spark Plug: 1 complete Set, Per Engine (Total: 2 X no. of cylinders) (ii) Ignition Transformer/coil: 1 complete Set, Per engine (Total: 2 X no. of cylinders) (iii) Set of Lube Oil Filter Elements: 6 Set Per Engine (iv) Set of Air Filter Elements: 6 Set Per Engine (v) Gas filter element (of gas train): 04 nos. Per engine (vi) Gas regulators: 1 complete Set (Stage 1 and Stage 2), Per Engine (vii) Set Of Vee Belts: 1 Set Per Engine (viii) Tappet Cover Gasket set: 4 complete Sets, per engine (ix) Self-Starter: 1 no., per engine (x) Battery Charging Alternator: 1 no., per engine (xi) Ignition System (Altronic or as per manufacturer's standard): 1 no., per engine 14.2 The bidder must note that the above-mentioned spares are mandatory maintenance spares and are to be supplied along with the order. 14.3 For electrical spares please refer to SECTION A. 14.4 The cost of the spares as per clause no. 14.1 and 14.3 above should be provided separately and included in the total cost of each genset package; and shall be considered during commercial evaluation of the offer. Price of each individual spares as per clause no. 14.1 and 14.3 is to be provided as per note below. Note: The price of these spares must be included in the Total Price of each unit. However, specific description, part numbers etc. (if available) and unit price of		

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		each & every spares shall be provided separately as pdf. document under "Financial Documents" while submitting the Price Bids in GeM Portal. Please note that no price should be mentioned in the Technical Bid. 14.5 RECOMMENDED SPARES a. The bidder shall furnish a list of spares & components that will be required for regular operation and maintenance, overhauling etc. throughout the life of the equipment complete with price. Annual consumption of each spare should be furnished in a tabular format. The bidder should also provide detailed spare list of all the items including bought out items in the operation and maintenance manuals. The list should include a spare parts list along with OEM part numbers, make & model of the equipment and contact postal address of OEM for all items of the whole unit. b. The bidders must submit a written undertaking (along with the bid) that they would be able to supply all the requisite spares and consumables (including bought out items) for a minimum period of 10 (ten) years from the Certified date of completion/ successful field commissioning of the unit.		
15.0	SUBMITTALS	15.1 Following documents shall be submitted along with the technical bid: (i) Certificate/ declaration from the Engine Manufacturer against clause nos. from 6.6 to 6.10. (ii) GA drawing of Generator Set and Control Panel. (iii) Engine Data Sheet (iv) Manufacturers' product catalogues (v) Sizing of the engine generator set. Furnish calculation of Engine BHP for matching with alternator capacity. Calculation shall be approved by the Gen Set manufacturer. Calculation sheet from the Gen Set manufacturer for determining the size of the engine with respect to the genset rating. (vi) Acoustic Enclosure Dimensions indicating height, etc.		

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		 (vii) Exhaust piping arrangement including height of exhaust. (viii) Transient response of frequency and voltage for the generator set. (ix) Auxiliary Equipment - Specification or data sheets, including switchgear, spring type vibration isolators. (x) Drawings- General dimensions drawings showing overall generator set measurements, mounting location, and interconnect points for load leads, fuel, exhaust, cooling and drain lines. (xi) Wiring Diagrams – Electrical Wiring diagrams, schematics of Generator & control panel (xii) Warranty Statements. (xiii) Standard Engine Shop Manual (Engine Rebuilding Manual) from Engine OEM: The bidder shall submit, in their technical bid, undertaking for supply of the Standard Engine Shop Manual from OEM in the event of order placed upon it. (xiv) CPCB compliance certificates for emission and noise level. (xv) Undertaking from: a) OEM of Engine and b) OEM of Alternator (in original on OEM's letter head) shall be submitted by the bidder along with technical bid, guaranteeing uninterrupted supply of spares and availability of service for at least 10 years with effect from delivery of the Item / product for the item / 		
		product to be supplied under the Tender / Order, in the event of placement of order 15.2 Drawings for approval on award of the order: The following drawings shall be submitted to OIL within one month of placement of the purchase order (Minimum 2 sets of hard copies). The supplier shall get them approved from OIL		

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		before start of the manufacturing works. The approval of drawings however does not absolve the contractor not to supply the equipment/materials as per agreement, if there is any contradiction between the approved drawings and agreement.			
		 (i) Layout drawings of the equipment to be installed including control cables, fuel / lube oil pipes and supports/structure for exhaust piping, chimney and bus ducts / cable trays. (ii) Drawings including section, showing the details of erection of equipment. (iii) Electrical wiring diagrams from engine-alternator set to electrical control panel, including the sizes and capacities of the various electrical/control cables and equipment. (iv) Dimensioned drawings of Acoustic enclosure/Engine-alternator set and electrical control panel. (v) Drawings showing details of supports for pipes, chimney cable trays, ducts etc. (vi) Any other drawings relevant to the work. 			
		15.3 Documents for submission before the pre-dispatch inspection: Two copies of the Integrated Operation & Maintenance Manual for the complete Generator Set including operating instructions with description and illustration of all switch gear controls & indicators, all generator controls and all engine controls.			
		15.4 As built Drawings/Documents to be furnished on completion of installation & commissioning:			
		(Quantity of Drawings and Documents to be submitted: 5 set + 1 set X Number of Generating Sets to be supplied):			

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		 a) Generator set installation drawings giving complete details of all the equipment, including their foundations. b) Line diagram and layout of all electrical control panels giving switchgear ratings and their disposition, cable feeder sizes and their layout. c) Control wiring drawings with all control components and sequence of operations to explain the operation of control circuits. d) Manufacturer's technical catalogues of all equipment and accessories e) Integrated Operation & Maintenance Manual for the complete Generator Set including operating instructions with description and illustration of all switch gear controls & indicators, all generator controls, and all engine controls. f) Engine Shop Manual (Engine Rebuilding Manual): 2(two) Copies only for the entire order quantity. g) Parts Books - that illustrates and list all assemblies, subassemblies, and components, except standard fastening hardware (nuts, bolts, washers, etc.). h) Routine Test Procedures - for all electronic and electrical circuits and for the main AC generator. i) Troubleshooting Chart - covering the complete generator set showing description of trouble, probable cause and suggested remedy. j) Wiring Diagrams and Schematics - showing function of all electrical components. k) Alternator Operation, Maintenance & Spare Part Manual. l) Generator Set Test Certificate. m) Certificate that the item has been designed, manufactured, and tested conforming to the requirements & specifications. n) OEMs test certificates for individual sub-assemblies (if any). o) Warranty Certificate 		

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		 p) Complete step-by-step Safe Operating Procedure (SOP) for the complete generating set 		
16.0	STAGE INSPECTION AND TESTING	(For inspection and testing of electrical items refer SECTION A) OIL as purchaser shall have right to carry out stage inspection and shop visit to inspect the manufacturing progress but such inspection shall not relieve the bidder of his responsibility to ensure that the equipment supplied is free from all manufacturing and other defects and conform to correct specifications.		
17.0	PRE-DISPATCH INSPECTION	 (i) Pre-delivery inspection shall be performed by OIL to ensure all generating set components, controls, and switchgear are included as specified herein, free from any defects and carry full load tests on every generating set prior to delivery and acceptance. The manufacturer or its representative shall give a notice in advance of minimum four weeks for carrying out pre-delivery inspection and shall arrange staff/fuel/POL and any other consumables for test run at his cost. OIL shall witness such inspection & testing at mutually agreed date. To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying our inspection shall be borne by OIL. (ii) All major items/ equipment i.e. engine, alternator and associated electrical control panels etc. shall be offered for inspection and testing assembled as unit. (iii) Gensets shall be tested on load banks for the rated KW rating. Testing shall be for a minimum of 1 hour at 80% load, 1 hr. at 100% load, 1 hr. at 110% load. (iv) During testing all controls/ operations safeties shall be checked and proper record shall be maintained by the manufacturer's representative. Any defect/ abnormality noticed during testing shall be rectified. The testing shall be declared successful only when no abnormality/ failure is noticed during the testing. (v) Any defects which become evident during the test shall be corrected by the bidder at his own expense prior to shipment to the jobsite. (vi) The Genset shall be cleared for dispatch to site only when the testing is declared successful by OIL. 		

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		(vii) A copy of the test results shall be submitted to the OIL at the end of the inspection. Test results shall show manufacturer's tolerances as well as actual parameters recorded.		
18.0	DISPATCH/ SHIPMENT TO SITE:	The items shall be dispatched only after OIL's satisfactory inspection and advice for dispatch.		
19.0	INSTALLATION AND COMMISSIONING AT SITE	 (i) For installation and commissioning of electrical items refer to SECTION A. (ii) The foundation works required for the installation of the generating sets will be done by OIL. Gas fuel and water supply point will be made available nearest to the generating sets from which points onward the supplier shall extend the lines as per requirement. (iii) Installation and Commissioning of the generating set complete with control panel and Changeover Panel shall be carried out by the supplier at any site located in OIL's Operational Area in Assam and Arunachal Pradesh. (iv) The installation shall be performed in strict accordance with shop drawings, specifications, and the manufacturer's instructions and as per tender specifications. (v) All materials required for installation and commissioning shall be in the scope of the supplier. This includes piping required for extension of engine exhaust. (vi) The supplier shall provide all tools and equipment, all safety gadgets for safe work, labour, appliances, apparatus, etc. at his cost required to carry-out the installation and commissioning work. However, OIL may on request, provide arc welding and oxyacetylene cutting set with necessary hot/cold work permits for the above jobs. (vii) The supplier shall be responsible for safety of its personnel and equipment during the installation and commissioning work. (viii) During the installation & commissioning job, the bidder shall strictly ensure that all the cut ends of cables, packing materials, leftover items are removed from site after completion of work. No environmental damage shall be done while carrying out the job. (ix) All equipment manufacturers/representative shall furnish the services of factory- 		

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		trained personnel as required during installation and through the warranty period to inspect the installation, supervise start-up of equipment installed, and repair the equipment when required. Service requests shall be answered and acted upon promptly. (x) The responsibility for performance to the specifications shall not be divided among individual component manufacturers but must be assumed solely by the bidder (supplier). This includes generating system design, manufacture, test, and having a local supplier responsible for service, parts and warranty for the total system. (xi) Bidders should confirm that installation & commissioning is included in the Technical Bid. (xii) Cost of Installation & commissioning charges should be quoted separately which shall be considered for evaluation of the offers. These charges should include amongst others to and from fares, boarding/ lodging, local transport at Duliajan and other expenses of the service personnel during their stay at site.		
20.0	TRIAL RUN AND HANDING OVER TO OIL.	 (i) The generating sets shall be put under trial run for a period of 72 hours following their installation and commissioning. During this period, the generating set should run trouble free from any major/minor troubles and meet the performance standards. A representative of the supplier should be based in Duliajan with no cost to OIL during the trial run period to monitor the performance of the generating sets. (ii) The generator set will be said to have successfully completed the trial run, if no breakdown or abnormal /premature failure of any component of the entire generator set occurs during this period. (iii) Following the successful run-in period, the genset shall be taken over by OIL subject to guarantee/warrantee clause of the tender. This date of taking over of the generator set shall be the date of acceptance /taking over. 		
21.0	SERVICE AND WARRANTY	(i) The supplier shall ensure adequate and prompt after sales service free of cost during warrantee/guarantee period. In case of accessory/component supplied by other manufacturers the supplier shall furnish a guarantee/warranty from the manufacturer for the same before the generator set is taken over.		

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		 (ii) The nature of after sales service, which can be provided by the bidder, during initial erection and commissioning as also subsequent operation shall be clearly stated in the quotation. (iii) The manufacturer shall have a local authorized dealer who can provide factory trained servicemen, the required stock of replacement parts, technical assistance, and warranty administration. (iv) The manufacturer's authorized dealer shall have sufficient parts inventory to maintain over the counter availability of at least 90% of any normal wear and tear parts. (Belts, hoses, filters, turbines, pumps, safeties, regulators, injectors, gaskets) (v) The manufacturer's authorized dealer shall have factory trained service representatives and tooling necessary to install and commission all provided equipment. (vi) The warranty period for the Gen set and ancillary equipment shall be a minimum of 18 months from the date of dispatch/shipment or 12 months from the date of commissioning of the equipment whichever is earlier. (vii) The warranty coverage shall include repair parts, labour, reasonable travel expense necessary for repairs at the jobsite, and expendables (lubricating oil, filters, antifreeze, and other service items made unusable by the defect) used during the course of repair or any defects in the engine or alternator during warranty period shall be replaced by the party at his cost without any extra charge to OIL (viii) Running hours shall not be a limiting factor for the warranty coverage by either the manufacturer or the authorized dealer. (ix) Offer received without written warranties as specified shall be rejected in their entirety. 			
22.0	ORIENTATION	The system manufacturer's authorized dealer shall provide a complete orientation for OIL's engineering and maintenance personnel. Orientation shall include both classroom and hands-on instruction. Topics covered shall include control operation, schematics, wiring and diagrams, meters, indicators, warning lights, shutdown system and routine maintenance. Duration of orientation should be minimum of 2 days.			

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23.0	GENERAL NOTES TO TECHNICAL SPECIFICATION	 a) All sundry equipment, fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, junction boxes and all other sundry items for proper assembly and installation of the various equipment and components of the generator sets are deemed to have included in the tender, irrespective of the fact that whether such items are specifically mentioned in the tender documents or not. b) The offer shall not be acceptable if the bidder does not quote for all items of the tender, supply, installation, commissioning of all items c) In their offer the bidder must mention their detailed comments pointwise against each point of tender specifications. Any deviation from the tender specification shall be specifically mentioned. Specific type and make of equipment shall be mentioned. All the information required as per tender specifications must be submitted. d) The bidders shall provide overall dimensions of the Genset, Acoustic Enclosure and foundation/installation diagram of the Genset. e) In the event of order, the supplier shall submit to OIL within one month of placement of order all documents and drawings as required against each item. f) The manufacture of the equipment is to be started only after written approval of the drawings / documents by OIL as mentioned in tender against all equipment. g) Bidder must confirm in the Technical Bid that the major equipment such as Gas Engine and Alternator shall have manufacturer's Test Report and Warranty Certificate and the same shall be provided during inspection of the Generator set by OIL. 			
24.0	GENERAL NOTES FOR BIDDERS	 (Bidders shall confirm each & every point clearly. <u>Deviations, if any</u>, shall be highlighted in the quotation.) i) Materials shall be brand new, unused & of prime quality. ii) Pre-dispatch/Shipment Inspection & testing charges, if any, must be quoted separately on lump sum basis which shall be considered for evaluation of the offers. To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying our inspection shall be borne by OIL. 			

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9	SECTION A	SPECIFICATION OF ELECTRICA	L ITEMS	
1.0	SPECIFICATION OF ALTERNATOR	(1) Make of the Alternator shall be within the following: KIRLOSKAR / NGEF / STAMFORD / CROMPTON GREAVES / CATERPILLAR / KATO / GENERAL ELECTRIC, USA / LEROY SOMER (2) Rated Output: 25 KVA, 0.8 power factor at Specified ambient conditions for utility and motor loads. (3) Rated Voltage: 415 Volts ± 5% (4) Armature Winding: 3 Phase, 4 wire type. (5) Rated Frequency: 50 Hz ± 3% (6) Power factor: 0.8 lagging (7) Class of insulation: Class F/H but temp rise limited to class B. (8) RPM: As per engine rated speed (9) Phase sequence: UVW - phase sequence and direction of rotation shall be clearly marked on the alternator. (10) Duty/load: Continuous duty rated Alternator. (11) Winding Connection: Y connected. Separate neutral terminal required. (12) Ambient: Min: 5 °C Max: 45 °C, RH 95% max (13) Alternators Enclosure Protection: IP 23 (14) Alternators Terminal Box Protection: IP 54 (15) Excitation system: Brush less, self-excited, self-regulated with solid state AVR. Voltage characteristics- VG3 as per Table-1, IS 13364: Part 2: 1992 (Reaffirmed in 2018) (16) Mounting: Foot mounted on Gen set skid that should be mounted on antivibration pad. (17) Permissible voltage variation: As per Table-1, IS-13364 (Part-2) (18) Permissible frequency variation: As per IS-13364 (Part-2) (19) Frame size: Bidder to confirm (20) Waveform deviation: As per IS-13364 (Part-2)		

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		 (21) Unbalanced current: As per IS-13364 (Part-2) (22) Short circuit current: As per IS-13364 (Part-2) (23) Cooling: Air cooled by integral fan (24) The brush less alternator shall have exciter and rotating rectifier-bridge mounted on shaft complete with diodes and surge suppressor, main field windings and stator windings. PIV of exciter diodes must be 800 Volts or 8 times the maximum exciter armature operating voltage, whichever is higher. At nominal speed the excitation system must produce sufficient residual voltage in order to ensure self-excitation. (25) All windings shall be made from electrolytic grade copper of high purity. (26) Voltage swing (Transient response): As per IS-13364 (Part-2). (27) The alternator shall be capable of sustaining a 10 % overload for one hour in any 12 hours operation. (28) Total voltage harmonic distortion shall be less than 3 % between phases at no load. (29) The alternator shall be capable of withstanding 1.2 times the rated speed for two minutes without any damage. (30) Alternator stator winding terminals are to be connected to 4 nos. of suitably rated tinned copper terminals, supported on SMC/GRP supports inside the alternator terminal box. (31) The alternator terminal box shall be of suitable size and shall be suitable for terminating power cables of alternator. (32) 2 nos. of earth points are to be provided on both sides of the alternator. (33) Lifting hooks are to be provided for lifting the alternator. (34) AVR shall be suitable for motor loads, VG3 regulation. (35) Alternator windings and AVR shall be suitable for humid atmosphere as per ambient conditions mentioned in the enquiry. (36) Bidder to mention the following information in offer. (v) Unbalanced current carrying capacity. 		

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		 (vi) Efficiency of the alternator at 25 %, 50 %, 75 % and 100 % load. (vii) Power factor of the alternator at 25 %, 50 %, 75 % and 100 % load. (viii) Dimensional drawings. (37) Alternator frame and enclosure shall be made from MS or Cast steel. (38) The permissible vibration of the alternator shall be as per IS-12075:2008 (Reaffirmed in 2018). (39) The alternator shall conform to the following standards: Latest publications of all IS Standards shall be referred. IS: 12065 Noise limit IS: 12075: 2008 (Reaffirmed in 2018): Mechanical Vibration of Rotating Electrical Machines with Shaft Heights 56 mm and Higher - Measurement, Evaluation and Limits of Vibration Severity IS: 4691 Enclosure Protection IS: 6362 Cooling IS: 2253 Mounting IS: 13364 - Part 2: 1992 (Reaffirmed in 2018): AC Generators Driven by Reciprocating Internal Combustion Engine: Part 2 Rated Above 20 KVA and up to 1250 KVA 			
2.0	SPECIFICATION OF GENERATOR CONTROL PANEL:	 Electrical control panel of the generator set shall be incorporated & installed inside/outside the acoustic enclosure which will accommodate generator circuit breaker (63A MCCB), an on-load change-over switch(100A), protection relays, metering, control and protection devices (CBCT, ELR) etc. The detailed description of the panel is as follows: a) Design of Genset Control Panel shall be compatible for running the generator in both the following conditions. Exact use at site would be at OIL's discretion. i) Generator Neutral solidly grounded without Neutral Grounding Resistor (NGR). 			

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		ii) Generator Neutral grounded through NGR to restrict neutral current to maximum 750 mA (to comply with CEA Regulation 2010 clause # 100). However, supply of NGR is not in the scope of the vendor. b) Sheet steel clad, self-supporting, floor mounting, cubicle type, dust and vermin proof generating set control panel made of 2mm thick MS CRCA sheet and built upon rigid framework of channels, beams as required, having front and rear hinged doors with danger plate fitted on both sides, lifting lugs on top, ventilation louvers on both sides, bottom detachable gland plates, double earthing studs on two sides, complete with suitably sized zinc passivated hard wares with heavy plain and spring washers. c) The panel doors shall have neoprene rubber gasket. d) The panel shall be designed and manufactured as per IS 8623: Part 3: 1993(Reaffirmed in 2018): Low-Voltage Switchgear and Control gear Assemblies - Part 3: Particular Requirements for Equipment Where Unskilled Persons have Access for Their Use. e) The panel enclosure shall be IP 54. Cooling louvers may be provided at bottom and top of the panel sides. Suitable wire mesh shall be provided on the inner side of the louvers to prevent entry of insects. f) The metal surface of the panel shall be given seven tanks anti corrosion treatment and then powder coated in DA grey colour (Min. 50 micron thick paint). g) The frame shall be able to withstand the stress and vibration during transportation and operation. h) All cable entry shall be from bottom side. Removable gland plates shall be provided for all cables. Height of electrical panel from skid/ floor shall be sufficient for entry of the electrical cable with proper bending radius. i) Genset shall be supplied in ready to use condition, complete with all interconnections like connection between generator terminal to generator		

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		breaker etc. 2.2 The detail description of the components of the electrical control panel is as described below: The panel shall broadly have the following compartments/sections: i) Incomer & Bus bar Section ii) Generator Protection Section iii) Generator control section iv) Engine control section v) Change-Over Switch 2.2.1 INCOMER/BUS BAR SECTION - MAIN COMPONENTS: a) Breaker / MCCB: 1 No. 415 V, 63 Amps, 4 pole, MCCB, 25 KA breaking capacity, with inbuilt microprocessor based, adjustable overload & short circuit, earth fault and earth leakage protection, Under voltage trip coil. Earth fault protection can be in-built or separate through separate CBCT and earth leakage sensing relay. Rotary operating handle shall be provided on the panel door for manual operation of MCCB. MCCB shall have suitable indication in case of trip from trip unit of MCCB. MCCB Make: Legrand/ Siemens/Schneider Electric/ABB. The MCCB shall trip on the following faults: (iv) Overload, short circuit and earth fault/earth leakage- Tripping from internal trip unit of MCCB (v) Over/under voltage & Over / under Frequency- From voltage and frequency relays (vi) Engine fault (Low lube oil, high water temp, over speed)- Trip contact from engine protection system		

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		2.2.2	 b) Busbars: Panel shall have one set of TP & N electrolytic grade, high conductivity, electro tinned copper bus-bars, made from rectangular sections confirming to IS, rated for 600 Amps (Free air rating of sections) and supported at required intervals to withstand short circuit fault levels up to 36 KA for 1 Sec. Rating of neutral bus shall be minimum 50% of phase bus rating. Bus-bar support shall be non- hygroscope GRP/FRP and the Bus-bar shall be insulated with heat shrinkable PVC sleeves. c) Incoming and outgoing power cables to/from MCCB shall terminate on electrolytic grade, high conductivity electro tinned copper spreader bar/links liberally sized for termination of all power cables. Neutral bar shall also have provision for connection of neutral earth cables. All cables to the panel shall enter through a detachable gland plate (of 3 mm thickness) at the bottom of the panel. All cables shall be terminated through suitably sized single compression glands and connections shall be made through properly rated terminal strips and tinned copper sweating sockets crimped rigidly to the copper conductors. Generator Protection Section: This section shall have: a) Built-in long-time overload, short time fault, instantaneous short circuit, earth fault protections- in the MCCB. Earth leakage protection from earth leakage module on MCCB or Earth leakage relay with CBCT. ELR shall be adjustable (sensitivity: 0-3 A, time: 0-5 Sec) CBCT make: Schneider/Legrand b) 1 No 3 phase, 4 wire, Microprocessor based, Over and Under Voltage Monitoring Relay for the following protections: 			

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		viii) Over voltage - 110 % ix) Under voltage - 85 % with 1- 10 seconds time setting		, ,	
		Make: Telemecanique (Model RM3 TR114VS7 or higher version models) / ProkDvs (Model-LVM11-34-2CF or higher version models)/equivalent model of ABB Ltd/ Schneider / Siemens			
		c) 1 No. Over and Under frequency monitoring relay from 40 to 60 HZ with accuracy 0.1%, suitable for 415V Trip time 0-10Sec with LED indication, 2NO+ 2NC contact.			
		Make: ProkDvs (Model -HILO-2C-F or higher version models) / Minilec (FCS D2 or higher version models) / equivalent model of ABB Ltd/ Schneider / Siemens			
		d) Suitably rated CTs of 100/5 , class 5P10 for above (Make: Kappa / Conzerv/L&T).			
		2.2.3 <u>Generator Control Section</u> :			
		This section shall have:			
		 a) Meters: 1 No. Three phase analog Voltmeter with selector switch, Size- 96 X 96 mm2, Class of accuracy 0.5, 0 - 500 V, Auxiliary power supply -230 V AC (Make: AEI/ Conzerv / L&T) 1 No. Three phase analog ammeter with selector switch, Size- 96 X 96 mm2, 0-500 Amps, C.T. operated, Auxiliary power supply 230 V AC, class of accuracy -0.5 (Make: AEI/ Conzerv / L&T) 			

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		 1 No. Digital frequency meter, scaled 0-100 Hz, suitable for 240 V AC operation, (Make: AEI / Conzerv / L&T) 01 no. Digital multifunction meter indicating Voltage (V), Current(A), Frequency (Hz), Power factor(pf), Active Power (KW), Reactive Power (KVAR), Energy (KWH), Maximum Demand (MD) with RS-485 capability; make- Siemens (Sentron PAC 3200 or higher version models) / Schneider Group (Model- PM700 higher version models) or equivalent model of ABB, Automatic Electric, Rishabh. Suitably rated CTs, CT ratio 100/5, class I for ammeter, kW meter and PF meter (Make: Kappa / Conzerv / L&T.) All meters shall be mounted at the front door of the panel. In case Voltmeter, ammeter, frequency meter and multifunction meter are replaced by Digital Controller, then One no. Digital controller shall be supplied as spare. b) Indications: Following are to be provided: "Engine running" Power supply "ON" for R, Y & B phases "Trip circuit healthy" "Tripped on Fault" (Electrical fault - From aux contact of trip unit of MCCB) Over/under voltage Over/under frequency Engine fault Set on load All indication lamps shall be of LED type (Make: Binay/ Technic/ L&T) and shall be mounted in front of the panel. A separate annunciator window (multi-window) with audible alarm for showing engine and alternator faults, gas alarm etc. shall also be provided. 		

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		Push buttons for acknowledging/ resetting alarms, checking healthiness of trip circuits etc. shall also be provided. c) Fuses: All meters, indication lamps shall be protected by adequate nos. of HRC instrument fuses / MCBs of suitable rating.				
		d) Auxiliary relays: Auxiliary Relays /Contactors shall be provided as per requirement of the control circuits. (Make: Siemens/Telemecanique/ABB/BCH/L&T/Indo-Asian). All relays shall have minimum 2 nos. spare contacts. Number of relays shall be as per the control circuit requirement. Current rating of aux contacts shall be as per control circuit requirement. Plug in type relays and contactors shall not be used in the control circuitry / panel.				
		 2.2.4 Engine control section: a) This section shall have: Digital RPM meter -1 No. Engine alarm and trip condition monitoring Engine start/stop controls Battery charger circuit Emergency stop switch (mushroom head type) b) The following engine conditions shall give alarm indication: Low lube oil pressure (at low set point) High water temp. (in case of water-cooled engines) Engine over speed (at low set point) Low battery voltage c) In addition, engine shall be stopped with the help of heavy-duty 24V D.C. 				

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		fuel solenoid on following trip conditions. Low lube oil pressure High water temp. (in case of water-cooled engines) Engine over speed High Vibration d) Push buttons shall be provided for: Accept fault Reset alarm Engine start/ stop Lamp test e) Indication of each of the trips shall be provided in the front multi-annunciator window of the Engine control section. Suitable relay/ timer arrangement shall be provided wherever required. f) Hooter/alarm to indicate Engine trip on fault g) All indication/metering/controls shall be mounted in front of the panel. 2.2.5 CHANGE OVER SWITCH: Output from the control panel bus bars shall be terminated on a changeover switch. Outgoing cable from the genset shall be connected to the outgoing side of the changeover switch. The other incomer of the changeover shall be reserved for connection to the mains supply / 2nd source. Description of the changeover switch is as follows. One no. four-pole on load changeover type switch rated for minimum 100 Amp. The switch shall be mounted/accommodated inside the control panel. Connection links/spreader bars shall be provided with switch for proper termination of all power cables. Power wiring from control panel to COS shall be done by the manufacturer. Sufficient space and arrangement shall also be provided in COS enclosure for entry and termination of main power cables (1 from the MCCB, 2nd from other		

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		 source & third for power supply to the load centre). There shall be permanent connection from the MCCB to the Change-over switch(s) by bars / cable(s). 				
		2.3 MOTOR STARTER PANEL (If necessary for operation of GEG as per OEM/manufacturer design) Manufacturer shall also provide starter panels along with necessary cables for any motors if necessary (e.g. lube oil circulation pump motor, radiator cooling fan motor, enclosure ventilation fan motor etc.) for operation of the GEG sets. The starter panels as required may be accommodated inside electrical control panel complete with breakers / MCCBs or MPCBs (for power isolation), contactors, thermal overload relays, indication lamps, etc.				
		 i) Control voltage for generator control: 240VAC. Potential circuit wiring of the control system shall be done with 1.5 sq mm, flexible copper, 1100V grade PVC insulated wires approved by ISI, TAC, FIA. All wiring shall have copper lugs & terminal blocks as required. Wiring for lighting circuit MCB, power outlet and wiring for CT shall be done with 2.5 sq mm, flexible copper, 1100v grade PVC insulated wires approved by ISI, TAC, FIA & have copper lugs. Colour code for wires shall be followed as per IS. Make: Finolex/Havells/ L&T/Polycab. ii) All power and control wiring inside the enclosure shall be done at manufacturer's works with armoured cables or with single core cables laid in metallic conduits/ casings. Heavy duty Single Compression Cable Glands shall be provided at all cable entries for armoured cables. Cables with conduit wiring shall have suitable entry clamp. All cables shall be with stranded copper conductor and shall be of 1100v grade and approved by ISI. 				

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		 iii) All control cable terminal ends shall have suitable heavy duty crimping lugs of tinned copper. Ferrules shall be provided for identification of cables. All components shall be labeled for identification. iv) Separate gland plates shall be provided for power and control cables. v) Separate TB shall be provided for all interconnection cables between control panel and engine. vi) Provision of exhaust blower power supply shall be required if the blower is fitted inside the acoustic enclosure. vii) Power supply arrangement with switching and protection shall be also provided for any auxiliary motor, if installed for genset operation. viii) All auxiliary and main contactors shall be mounted on DIN channel. Plug in relays shall not be used. ix) Engine control wiring shall run from engine to control panel in heavy duty ISI approved galvanized flexible conduit supplied by the party. 		
3.0	DOCUMENTS	 3.1 The following Documents / drawings shall be <u>submitted with the offer</u>: i) GA and schematic drawings of alternator and control panel ii) Technical literature of alternator iii) Confirmation that the party agrees to all the points mentioned under electrical specification of generating set. Any deviation from the electrical specifications of the tender shall be specifically mentioned by the party with proper justification. Acceptance of deviations shall be at the discretion of OIL. iv) Type and make of components shall be as per tender. v) The bidder shall also specifically confirm even if there is no deviation in their offer from technical specifications. 3.2 The successful bidder shall <u>obtain approval for the following drawings/documents</u> prior to manufacturing of alternator & control panel within 30 days of placement of order. 		

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		 i) GA drawing ii) Documentary evidence from the manufacturer of generator confirming that the alternator to be supplied shall meet all specifications as mentioned in the order. Technical catalogue of the generator. iii) Detailed power & control wiring diagram, detail enclosure drawings for control panel, Changeover Switch, earthing scheme. iv) Layout plan of the unit showing all parts, cable routes. v) Illumination scheme. vi) Details of power cables, control cable and their routes. vii) Bill of materials. 3.3 Minimum Two sets (Hard Copies) of following as built drawings / documents per genset along with soft copies shall be submitted in bound form along with gensets: i) GA drawing ii) Detailed power & control wiring diagram, detailed enclosure drawings for control panel, earthing iii) Scheme, layout plan of the unit showing all parts. iv) Details of power cables, control cable and their routes. v) Bill of materials of all components. vi) Technical literature of alternator. vii) O&M manual for Alternator and main components of control panel. viii) Catalogues of various components. ix) All test certificates for tests done at manufacturer's works for alternator, control panel and complete unit. x) Tests done during commissioning. xi) Guarantee certificate for alternator and control panel. Guarantee shall be for 12 months after commissioning of Gen set or 18 months after supply, whichever is earlier. xii) List of recommended spares with cat nos./part nos. & description for two years' 		

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4.0	ELECTRICAL SPARES	O&M. Following spares shall be supplied by the party along with package. 1. AVR Unit for Alternator- One no. per Gen Set. 2. Rotating rectifier assembly fitted with complete set of forward and reverse diodes-One set per Gen set. 3. Generator circuit breaker (63A MCCB) 4. One no. Digital controller per genset shall be supplied if Voltmeter, ammeter, frequency meter and multifunction meter are replaced by Digital Controller.		
5.0	INSPECTION AND TESTING FOR ALTERNATOR AND CONTROL PANEL INCLUDING STARTER PANEL as applicable	All the routine tests as per IS and load tests of the alternator and the control panel shall be witnessed by OIL's Engineer at respective manufacturer's works. The routine test of the alternator shall include the following minimum tests/ measurements: i) Measurement of winding resistances for generator armature, field, exciter armature and exciter field ii) Measurement of insulation resistance (before and after HV tests) for generator armature and field, exciter armature and field iii) High voltage (HV) test iv) Phase sequence test v) Voltage regulation test vi) Vibration measurement vii) Measurement of noise level viii) Overload test ix) Measurement of open circuit and short circuit characteristics x) All the routine tests and load tests of the control panel, changeover panel and starter panel (if provided) shall be witnessed by OIL engineers at manufacturer's works. The routine test		

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		of the panels shall include the following minimum tests/measurements: i) Physical checks & Operation checks of all components ii) HV tests iii) Insulation tests (before and after HV tests) Intimation for inspection for each item must be sent to OIL at least 15 days in advance.			
6.0	COMMISSIONING OF ELECTRICAL PART OF THE UNIT	 6.1 Installation and Commissioning of the GEG sets with control panels, Auxiliary Motors (if provided, shall be carried out by the supplier as per NEC, ISI, CEA Regulations 2010 etc. at OIL's field area around Duliajan, Assam (India). Qualified and competent electrical personnel of supplier shall be deputed during installation & commissioning of the generating sets. 6.2 All tools, instruments, test kits, etc. required for the job shall be provided by the supplier. Operational tests of all devises, their settings, shall also be carried out during commissioning job by the supplier. 6.3 Accommodation and travel to site for supplier's all persons shall be arranged by supplier. 6.4 All protective devices shall be tested for proper operation and setting done during commissioning by the commissioning person of the successful bidder. All working persons of party shall possess valid electrical license issued/endorsed by Electrical Licensing Board, Govt. of Assam. 6.5 The Gen set shall be treated as successfully commissioned from electrical side after successful load test (reliability run) of the unit at OIL's field site as per details given in SI. Nos. 15.0, 19.0 and 20.0 of the detailed description. 			
7.0	GUARANTEE	Generator and control panel components shall be guaranteed for 12 months after commissioning of Gen set or 18 months after supply, whichever is earlier.			

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S	SECTION B	SPECIFICATION OF ACOUSTIC EN	ICLOSURE		
1.0	ACOUSTIC ENCLOSURE:	a) The Acoustic enclosure shall be designed and manufactured conforming to relevant standards suitable for outdoor installation exposed to weather conditions, and to limit overall noise level to 75dB(A) at a distance of 1 meter from the enclosure as per latest CPCB norms under free field conditions. b) The construction shall such that it prevents entry of rainwater splashing into the enclosure and allows free & quick flow of rainwater to the ground in the event of heavy rain. The detailed construction shall conform to the details as under: c) The enclosure shall be fabricated out of the CRCA sheet of thickness not less than 1.6mm on the outside cover with inside cover having not less than 0.6mm thick perforated powder coated CRCA sheet. d) The hinged door shall be made from not less than 16SWG (1.6mm) thick CRCA sheet and shall be made airtight with neoprene rubber gasket and heavy-duty locks. e) All sheet metals parts shall be processed through 7-tank process. f) The enclosure shall be powder coated. g) Ventilation fans shall be provided, exhaust piping inside the enclosure must be lagged (except bellows). h) Temperature rise inside the enclosure shall not be more than 5 Deg C for maximum ambient above 40 Deg C and it shall be below 10 Deg C for ambient below 40 Deg C. i) There shall be provision for oil, coolant drain and fill.			

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		j) The batteries shall be accommodated in the enclosure in battery rack.		, ,
		k) The canopy shall be provided with high enclosure temperature safety device.		
		I) The acoustic lining shall be made up of high-quality insulation material i.e. rockwool/glass/mineral wool/PU foam of appropriate thickness and density for sound absorption as per standard design of manufacturer's to reduce the sound level as per CPCB norms. The insulation material shall be covered with fine glass fibre cloth and would be supported by perforated MS sheet duly powder coated/GI sheet/ aluminium sheet.		
		m) The enclosure shall be provided with suitable size & no. of hinged doors along the length of the enclosure on each side for easy access inside the acoustic enclosure for inspection, operation, and maintenance purpose. Sufficient space shall be provided inside the enclosure on all sides of the genset for inspection, easy maintenance, and repairs.		
		n) The canopy shall be as compact as possible with good aesthetic look.		
		o) The complete enclosure shall be of modular construction.		
		p) The forced enclosure shall be as per manufacturer design using either engine radiator fan or additional blower fan(s). If the acoustic enclosure is to be provided with forced ventilation, then suitable size of axial flow exhaust fan to take the hot air from the enclosure complete with necessary motors and auto start arrangement shall be provided. The forced ventilation arrangement shall be provided with auto stop arrangement to stop after 5 minutes of the stopping of the gen set.		
		q) The inside of the enclosure shall be provided with at least 2 (two) nos. Suitable LED		

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		Type luminaire controlled by a 5A switch for adequate lighting during servicing etc. of the gen set. The power supply to this luminaire shall be from the load side of the panel so that it can remain energized under all conditions. r) The control panel for the Generating set shall be installed separately inside the acoustic enclosure.		
		s) A high temperature trip system (to shut down the engine by cutting off fuel supply to the engine through the solenoid valve) with variable setting connected to a thermostatically controlled blower must be provided for eliminating excessive heat dissipated by the engine within the acoustic enclosure.		
		t) Suitable continuous online Temperature Monitoring and Control System with Alarm and Shut Down Mechanism shall be provided.		
		u) When the concentration of gas inside the acoustic enclosure reaches 10 % of LEL of gas, audio visual alarm shall activate, and automatic preventive measure shall activate to reduce the concentration of leakage gas. These preventive measures include switching on heavy duty exhaust fan to disperse leakage gas or stoppage of gas leakage itself.		
		v) When the concentration of gas inside the acoustic enclosure reaches 15 % of LEL of gas (or any other suitable rating), the alternator main circuit breaker shall trip automatically and subsequently the engine shall be shut down instantaneously by automatic device (i.e., cutting off power supply to the fuel solenoid valve.)		
		w) A separate Blower of suitable size (size/capacity to be specified in the offer) shall be provided and it shall be in operation even if the thermostatically controlled blower stops / fails. There shall be a provision of emergency shutdown of the generating set (Prime Mover) from outside the enclosure.		

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2.0	SERVICE ACCESSIBILITY:	Genset /engine control panel shall be visible from outside the enclosure. a) Routine/periodical check on engine/alternator (filter replacement and tappet setting etc) shall be possible without dismantling acoustic enclosure. b) For major repairs/overhaul, it may be required to dismantle the acoustic enclosure.		
3.0	ENCLOSURE ILLUMINATION	 c) Sufficient space shall be available around the genset for inspection and service. (i) A separate circuit shall be provided for lighting of the acoustic part of the enclosure. Minimum 2 Nos. LED lamps shall be fitted in wall mounted type/ bulkhead light fittings. 		
4.0	ENCLOSURE EARTHING ARRANGEMENT:	Two nos. of 50x6 mm GI straps (earth bus) shall be provided inside the enclosure on both sides and fixed on the skid floor. The earth loops from alternator, control panel, changeover panel, auxiliary motors (if provided) shall be connected to these straps with two distinct and independent GI earth straps of sufficient size as per IS 3043.		
		Earth leads and earthing jobs as per IS-3043. Suitable studs with fastener arrangement shall be provided on the earth buses for connection of earth straps to outside earth electrodes.		
	ECTION C	SPECIAL TERMS AND CONDIT	<u> </u>	,
1.0	authorized dealer	e Alternator (in case of bought out item) must be purchased from the respective OEM or the of OEM of these items and such purchase documents must be submitted along with the . Bidders must furnish undertaking to comply with the same in their technical bids.		
2.0	bidder along with the least 10 years with	he OEM of Engine and Alternator (in original on OEM's letter head) shall be submitted by the technical bid, guaranteeing uninterrupted supply of spares and availability of service for at effect from delivery of the Item / product for the item / product to be supplied under the the event of placement of order.		

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		CHECKLIST		
1.0	Whether quoted as	manufacturer?		
2.0	Whether quoted as	OEM Dealer/Supply House?		
		ealer/Supply House -		
3.0		ted valid and proper authorization letter from manufacturer confirming that bidder is their supply House for the product offered?		
	(b)Whether manufa	acturer's back-up Warranty/Guarantee certificate submitted?		
4.0	Whether agreed to	the tender warranty clause of the tender?		
5.0	Whether submitted	EMD/Bid Securitywithin the bid closing date as per tender requirement?		
6.0		firm delivery period as per the tender requirement?		
7.0		to submit PBG as asked for in tender?		
8.0		ty submitted as per requirement of the tender?		
9.0		Bid Validity as per the tender requirement?		
10.0		Payment Terms as per the tender?		
		MSE unit? If yes, whether necessary document submitted?		
13.0		Integrity Pact duly signed and sealed as per PROFORMA – D?		
14.0	memorandum F. N insertion of Rule 14 on procurement fro India on matters di	e of Govt. of India, Department of Expenditure, Public procurement Division vide office o. 6/18/2019-PPD dated 23rd July, 2020(order-Public Procurement no.1) has proclaimed the I4 (xi) in the General Financial Rules (GFRs), 2017 w.e.f. 23rd July, 2020 regarding restrictions om a bidder of a country which shares a land border with India on the grounds of defence of rectly or indirectly related thereto including national security. Bidders are requested to take nemorandum and submit their offers accordingly, wherever applicable.		
14.0	In this regard, bidde	ers must submit duly sealed & signed undertaking as per format provided vide, PROFORMA – ong with the technical bid. Whether uploaded along with the bid? the country of origin for the items quoted? Please mention the "Country of origin" under		
15.0	Whether submitted	format of undertaking by bidders towards submission of authentic information/documents		

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	as per PROFORMA			
16.0	Whether copy of the with the original base	ne SFMS message for Bid Security/ EMD as sent by the issuing bank branch submitted along ank guarantee?		
17.0	Whether submitted	undertaking for Local Content (PROFORMA E)?		
18.0	Whether submitted	Proforma of Declaration of Blacklisting / Holiday Listing (PROFORMA – G)?		
19.0	Whether submitted (PROFORMA – J)?	d undertaking by bidders towards submission of authentic information/documents		
20.0	Whether submitted	undertaking for bidders financial standing ((PROFORMA – L)?		

<u>ANNEXURE – VII</u>

BID EVALUATION MATRIX (BEC/BRC)

	BID EVALUATION MATRIX (BEC/BRC) (TO BE FILLED IN BY BIDDER DULY SIGNED)		
SL. NO.	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not	TO BE FILLED BY THE BIDDER Relevant Location in their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
A.1	BRC – TECHNICAL		
1.0	Bidder's Eligibility:		
	The bidder should either be an - (i) OEM (Original Equipment Manufacturer) of the Engine/ Alternator/ Generator set. OR (ii) Authorized dealer of OEM of Engine/ Alternator/ Generator set		
	Note: A copy of the Certificate of Incorporation (if the bidder is OEM) and a copy of valid authorized		
2.0	dealership certificate (if the bidder is Authorized dealer) must be submitted in the technical bid. Bidder's Experience: (i) The bidder/OEM must have supplied to any Government/Semi Government bodies/Public Limited Company in India during the last 05 (five) years as on original bid closing date of the tender: (a) Gas Engine Driven Generating Sets (of capacity 25 kVA or above) of value not less than INR 105.96 lakhs in a single order. OR (b) At least 08 (Eight) nos. Gas engine driven Generating Sets of capacity 25 kVA or above in a single order.		

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(ii) Nc a. b.	submitted with the technical bid, in the form of copies of relevant signed Purchase Orders along with copies of any of the following documents in respect of satisfactory execution of the Purchase Order failing which the bid will be rejected. (a) Signed & sealed satisfactory supply/ completion/ installation report (in original on user's letter head) (OR) (b) Bill of Lading (OR) (c) Consignee delivery receipt/ challan (OR) (d) Central Excise Gate Pass/ Tax Invoice issued under relevant rules of Central Excise/Vat./GST(OR) (e) Commercial Invoice/ Payment Invoice. Original Bid Closing Date shall be considered for evaluation of BRC Criteria in case of any extension of the bid closing date. The purchase order date need not be within 05(five) years preceding original bid closing date of this tender. However, the execution of supply should be within 05(five) years preceding original bid closing date of this tender.		

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3.0	The engine shall be of four-stroke cycle, spark-ignited, radiator cooled, in-line naturally aspirated /turbocharged/turbocharged after-cooled gas engine with mechanical governing/ electronic Engine Control Unit integrating governing, monitoring and diagnosing features and functions, capable of operating without any external ventilation system at the given site conditions and should be suitable for generator drive meeting the latest CPCB norms/ norms of the Environment (protection) Rules 1986 [section: 95A for Genset run on dedicated Natural Gas (NG) or Liquid Petroleum Gas (LPG); Notification no. GSR 281(E) dated 7 th March 2016 issued by Ministry of Environment, Forest & Climate Change, Government of India] for emission and noise level.		
	Note to Clause no. A.3.0: A valid copy of both the Type Approval and Conformity of Production (COP) certificates of the offered engine model and generating set should be submitted with the technical bid for compliance towards — (i) emission norms (ii) noise norms		
4.0	The rated output of the engine at 1500 RPM should be suitable for driving generator set of capacity 50 kVA Prime Duty and Performance Class not less than G2/G3 as per ISO 8528-5 with natural gas fuel and compression ratio not exceeding 12:1. The bidder must submit the manufacturer's (OEM) product catalogue of the engine/generating set where		
5.0	the rated output should find mention in it in the technical bid. The offered genset engine model should have proven track record of not less than 2400 running hours in one single unit.		
	Documentary evidence such as supply/purchase order copy and satisfactory performance certificates from the owner/user with the Make and Model of the genset clearly appearing in the body of the above documents should be enclosed with the technical bid.		

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6.0	DELIVERY PERIOD: Delivery of all the Genset Packages must be completed within 270 days from the date of issue of Purchase order. The date of receipt of materials at site shall be considered as the date of delivery. Additional time will not be given for the drawing approval, it must be completed in above mentioned 270 days. Installation & Commissioning shall be completed within 90 DAYS from the date of receipt of site clearance from OIL. (Please refer to Clause no. 20.0 of Annexure – I (Section A): TRIAL RUN AND HANDING OVER TO OIL regarding acceptance/taking over of the gensets) Bids submitted by Bidders quoting delivery period more than the abovementioned duration shall not be		
A.2	accepted. Bidders must categorically confirm the delivery period in their Technical Bid. BRC - FINANCIAL CRITERIA		
1.0	The bidder shall have an annual financial turnover of minimum INR 1,05,96,896.00 during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender. [Annual Financial Turnover of the bidder from Operations shall mean - "Aggregate value of the realization of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91)]		
2.0	"Net Worth" of the bidder should be positive for the financial/accounting year just preceding to the original bid closing date of the tender. [Net worth shall mean: "Share capital + Reserves created out of profits and securities Premium - Aggregate value of accumulated losses (excluding revaluation reserves) - deferred expenditure - Miscellaneous Expenditure to the extent not written off and carried forward loss - Reserves created out of write back of depreciation and amalgamation"]		

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accountin Financial s financial s accountin excluding affidavit/u financial y	Ing the time required for preparation of Financial Statements, if the last date of preceding financial/ great falls within the preceding six months reckoned from the original bid closing date and the Statements of the preceding financial / accounting year are not available with the bidder, then the turnover of the previous three financial / accounting years excluding the preceding financial/ great will be considered. In such cases, the Net worth of the previous financial / accounting year the preceding financial / accounting year will be considered. However, the bidder has to submit an undertaking certifying (PROFORMA – A) that 'the balance sheet/Financial Statements for the year (As the case may be) has actually not been audited so far'. Note: a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:- i) A certificate issued by a practicing Chartered/Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in PROFORMA - B. OR ii) Audited Balance Sheet along with Profit & Loss account. o) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central			

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4.0	In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date of Balance Sheet and Profit &Loss Account. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.		
5.0	In case the Bidder is subsidiary company (should be 100% owned subsidiary of the parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ultimate parent/holding company, then following documents need to be submitted: (i) Turnover of the parent/ultimate parent/holding company should be in line with Para B (1.0) above. (ii) Net Worth of the parent/ultimate parent/holding company should be positive in line with Para B (2.0) above (iii) Corporate Guarantee (PROFORMA - C) on parent/ultimate parent/holding company's company letter head signed by an authorized official undertaking that they would financially support their wholly owned subsidiary company for executing the project/job in case the same is awarded to them. (iv) Documents to substantiate that the bidder is as 100% subsidiary of the parent/ultimate parent/holding company.		
A.2 1.0	BRC - COMMERCIAL Bids are invited under SINGLE STAGE TWO BID SYSTEM. Bidders should upload Techno-Commercial Bid (Unpriced Bid) and Priced Bid separately at the designated fields assigned in GeM Portal. Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid. The "Unpriced Bid" shall contain all techno-commercial details except the prices/costs. Bidder not complying with above submission procedure will be rejected.		

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2.0	The prices/rates offered against the tender must remain firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price condition shall be treated as non-responsive and rejected. No discount whatsoever should be quoted separately. Rates/prices quoted must be net of all discounts.			
3.0	Bids received in physical form shall be rejected (except the documents specifically called for in hard copies, if any). Also, modifications to bids received after the bid closing date & time shall not be entertained.			
4.0	Bids containing incorrect/false/misleading statement(s) shall be rejected.			
5.0	Validity of the bid shall be minimum 90 days from the date of actual Bid Closing Date. Bids with lesser validity shall be straightway rejected.			
6.0	Bidders must confirm that goods/materials to be supplied against the order arising out of this tender shall be of recent make, unused, of the best quality & workmanship and free from defects. The Bidder must undertake to stand guaranteed for the materials as called for in the tender. Defective goods/materials rejected by OIL, whether the entire lot or part thereof, shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.			
7.0	Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Security must be valid for a period as called for in the tender document. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected. (Please refer Annexure – III: GENERAL NOTES TO BIDDERS)			
8.0	Bids must be accompanied by Bid Security for the amount as mentioned in the tender document and shall be in the prescribed format (PROFORMA – G) if submitted in the form of Bank Guarantee (BG). Bid Security may also be paid through online payment mode. Bid Security must be submitted within the scheduled Bid Closing date and time of the Tender, failing which the bid may be treated as incomplete and may lead to rejection of the bid without making any reference to the bidder. The amount of Bid Security (EMD) must be strictly as specified in the tender document. Bid Security if submitted in the form of BG/e-PBG must be valid at least for a period of 135 days from the date of original bid closing date of the tender. Bid shall be rejected without further reference, if the Bid Security (EMD) is not received strictly as above, except where			

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	exempted. OIL will not assume any responsibility whatsoever for submission of deficient/faulty Bid Security or for delay/non-delivery of the same (Please refer Annexure – III: GENERAL NOTES TO BIDDERS).			
9.0	Bid must be uploaded together with the Integrity Pact (<i>If applicable against the tender</i>) and the same must be duly signed digitally. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact, their bid shall be rejected straightway (Please refer Annexure – III: GENERAL NOTES TO BIDDERS).			
10.0	Bidders shall accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection:			
	i) Liquidated Damages ii) Warranty/Guarantee of material iii) Arbitration / Resolution of Dispute iv) Force Majeure Applicable Laws			
11.0	A bid shall be rejected straightway if it does not conform to any one of the following clauses:			
	 a) Validity of bid shorter than the validity indicated in the Tender. b) Incase the party refuses to sign Integrity Pact. c) Original Bid Security not received within the stipulated date & time mentioned in the Tender. d) Bid Security with (i) validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender. 			