Tender Document – Qualification Criteria

General Criteria

In this section basic guidelines / eligibility criteria are defined for the selection of the vendor.

Criteria	Description
Company Existence	Company should be registered under Companies Act, 1956 or Companies Act 2013 or a Partnership firm/LLP registered in India under Partnership Act 1932/2008 as amended and should have been in operations in India in the last 3 Years
Annual Turnover/Net Worth (CA certified documents) (Except the Covid FYs 2020-21 and 2021-22)	Average Annual turnover of 200% of estimated cost of the project in the last 03 financial years Or Cumulative Turnover of 600% of estimated cost of the project in the last 03 financial years. Or Average Annual Net Worth of minimum of 50% of estimated cost of the project in the last 03 financial years Or Cumulative Net Worth of minimum of 150% of estimated cost of the project in the last 03 financial years
Positive Net Worth/Profitability	Profitable/positive net worth in the last financial year Solvent entity
Work Experience (Self- certified with relevant documents)	One Similar work of minimum value of 80% of estimated cost of the project or Two Similar works of minimum value of 60% of the estimated cost of project or Three Similar works of minimum value of 40% of the estimated cost of project Note: Similar works will be defined based on scope of the work. Similar works may be executed with any Central and State Government agency, PSUs, Private organizations.
Non-Blacklisting Certificate	The bidder should not have been blacklisted /debarred by any Governmental/Non-Governmental Organization in India as on bid submission date
Certification if required	The Bidder should have valid ISO 9001:2008/ISO 9001:2015/ISO 27001 (relevant certification based on type of work) valid as on bid submission

These conditions are mandatory and will override already selected parameters/conditions in case any difference.

Annexure - I

Proforma required to the filled and uploaded by Bidder along with the Bid

Sr. No	Parameter	Value	Page no. (/S) of the supporting document uploaded along with the Bid.
	Technical Parameters		
1	Product type	25 KVA CPCB IV+ Compliant DG Set	
2	Make of Product		
3	Model of Product		
4	Name of the Manufacturer (OEM)		
5	Whether the required Technical Specifications are met in the product offered?	Yes/No	
6	Whether 'Authorization Certificate' from OEM Attached?	Yes/No	
7	Whether OEM has ISO 9001 and ISO 27001 Certification?	Yes/No	
8	Whether 'Make in India' Declaration on OEM letterhead attached?	Yes/No	
9	Whether Data sheet of the product offered attached?	Yes/No	
Eligibility Parameters			
1	Whether a copy of the required EMD attached?	Yes/No	
2	Whether fulfilling the required past experience?		
	Bidders	Yes/No	
	OEM	Yes/No	
3	Whether fulfilling the required annual turnover Criteria		
	Bidders	Yes/No	
	OEM	Yes/No	
4	Whether the Bidder is MSME in the Concerned area?	Yes/No	

Annexure- II

SPECIFICATION OF 25 KVA 3 PHASE CPCB- IV + COMPLIED DIESEL GENERATOR FOR SETTING UP OF 1 KW FM TRANSMITTER AT KONDAGAON.

Sr. No	Description	Value
1.	Power Generator installation configurations as defined in CPWD General Specifications for Electrical works - Part VII (DG Set)	Fixed (Power Generators are permanently installed)"
2.	Nominal Rated Capacity (kVA)	25 KVA
3.	No of Phase	Three Phase
4.	Rated Engine Power (kWm)	110 % of the required powered at STP (Standard Temperature Pressure) i.e. equal to (Nominal Rated Capacity (KVA) of power generator Any Auxiliary power Consumption by the Power generator) x Power factor (0.8) / Alternator efficiency
5.	Type of Engine cooling	Liquid Cooled
6.	Type of governor	Electronic
7.	Number of cylinders (Nos)	3 or 4
8.	No of Strokes (Nos)	4
9.	Rated RPM of Engine (RPM)	1500
10.	Fuel	High Speed Diesel (HSD)
11.	Starting voltage (volt)	12 V
12.	Salient Features of Engine	CRDi fuel system. Turbo Charged Engine, Direct injection Fuel System, No derating applicable up to 4500 above MSL of altitude at 25 degree Celsius
13.	"Maximum Change of Speed as a Percentage of Rated Speed on suddenly taking-off the rated load (Transient) "	15 %
14.	"Maximum Recovery Time in Seconds on suddenly taking-off the rated load (Transient) "	15 second
15.	Maximum Change of Speed as a Percentage of Rated Speed on suddenly taking-off the rated load (Permanent)	5 %
16.	"Maximum Change of Speed as a Percentage of Rated Speed On a change of load, both on and off, by all steps of 25 percent of the rated load (Transient) "	4 %
17.	"Maximum Recovery Time in Seconds on a change of load, both on and off, by all steps of 25 percent of the rated load (Transient) "	5 Second
18.	"Maximum Change of Speed as a Percentage of Rated Speed On a change of load, both on and off, by all steps of 25 percent of the rated load (Permanent)	1.5 %
19.	Alternator Voltage Rating	415 Volt
20.	Rating of AC Generator (KVA)	25.0 KVA
21.	Power Factor of AC generator	0.8
22.	Efficiency at rated Power factor at 75% of full Load	90.0 percent or above

23.	Conformity to Indian Standard (for Alternator)	Generally conforming to IS:13364 (Part-2) latest (Above 20 KVA)
24.	Voltage Regulation Grade	VG 3
25.	Alternator IP Rating	IP 23
26.	Class of Insulation	H
27.	Control Panel	AMF Control Panel
28.	Control Panel Location	Inside the canopy
29.	IP Rating of Control Panel	IP 53 or above
30.	Display meters in the control panel (with appropriate rating and accuracy class) inclusive in the scope of supply	Voltmeter, Ammeter, Frequency meter, Power Factor meter or Multifunction Digital Display Meter
31.	Other devices in the control panel (with appropriate rating) inclusive in the scope of supply	Required switches and cut out, MCB, MCCB, Contactor, Circuit breaker, Battery charger
32.	Displayed parameters/Features	Engine Speed, Lube oil pressure, Coolant/cylinder head Temperature, Engine running hours, Engine battery voltage, Engine Running status, Generator Voltage (Ph-Ph), Generator Voltage (Ph-N), Generator Current (R, Y, B), Generator apparent Power (kVA), Generator active Power (kW), Power factor, Frequency, Fuel level, Event log, Control supply Voltage
33.	Indicators	Low Lube oil pressure, High water / coolant / cylinder head temperature, Low fuel level, Over speed
34.	Audio Alarm	Low Lube oil pressure, High water / coolant / cylinder head temperature, Low fuel level, Over speed
35.	Acoustic Enclosure (inclusive in the scope of supply)	Yes, Power Generator supplied with Acoustic Enclosure
36.	Sheet Thickness(mm)	1.2 or above
37.	Thickness of insulation	38 millimetres or above
38.	Density of insulation (kg/cubic m)	28 or above
39.	Noise level at 1 meter (dB)	75 or better
40.	Fuel Tank Capacity	80 litres or above
41.	Number of Fuel tank	1
42.	Fuel Tank Sheet Material Thickness (mm)	2 mm
43.	Fuel Tank Fabricated Material	M.S Sheet
44.	Fuel Tank Features	Fuel Tank capacity is sufficient for 8 hrs of running at full load
45.	Battery Type & Specification	"Low Maintenance free to IS: 14257 for high cranking performance"
46.	Battery capacity (Ah)	90
47.	No of batteries	1
48.	Salient Features of Power Generator	Glass window on Acoustic Enclosure in front of the Control Panel, Emergency Stop outside the Acoustic Enclosure

49.	General Technical Requirements (GTR) / Commissioning (Part 1)	a) Power Generator shall be complete with Diesel Engine, Alternator and AMF/MANUAL Control Panel along with Acoustic Enclosure. Diesel engine and alternator shall be closely coupled or provided with flexible coupling and mounted on a base plate / M.S. frame of robust in construction. b) Foundation shall be constructed by the seller. Foundation shall be of PCC type with the ratio of 4:2:1. The length and breadth of the foundation shall be 300 mm more from the respective length and breadth of the Power Generator. The height of the foundation shall be 400mm, i.e., 200 mm below and 200mm above the ground level. All the materials / labour required for foundation work shall be supplied by the seller.
50.	General Technical Requirements (GTR) / Commissioning (Part 2)	c) Anti-Vibration mountings shall be provided for complete Power Generator in case of flexible coupling. In case of direct coupling Anti-Vibration mountings shall be provided for the Engine as well as the alternator.
51.	General Technical Requirements (GTR) / Commissioning (Part 3)	d) Power Generator should have protection against under voltage, over voltage, under frequency, over frequency, low battery voltage, over current, earth-fault, short circuit, phase sequence changes etc.
52.	General Technical Requirements (GTR) / Commissioning (Part 4)	e) Automatic Mains Failure (AMF) control panel, where applicable, shall be able to start up the Power Generator and transfer the load on to the Power Generator on mains failure without requiring any human intervention. Similarly, on restoration of mains supply, it shall be able to transfer the load to mains supply and switch off the Power Generator automatically.
53.	General Technical Requirements (GTR) / Commissioning (Part 5)	f) Control Panel (Manual / AMF), where applicable, shall be equipped with suitable Voltmeter, Ammeter, Frequency meter, power factor meter (these items can be alternatively supplied in one multifunctional digital display meter), battery charger, indicators, various switches and cut out / MCB / MCCB / Contactor / Circuit breaker for the DG output of appropriate rating and accuracy class as per trade practice for better utility.
54.	General Technical Requirements (GTR) / Commissioning (Part 7)	g) Acoustic Enclosure shall be made of Pre-treated and Powder coated CRCA Sheet. The sheet shall be Pre-treated and Powder coated with weather-proof paint. The Acoustic Enclosure shall be vermin proof. The enclosure shall accommodate the (daily service) fuel tank of the Power Generator to make the system compact.

55.	General Technical Requirements (GTR) / Commissioning (Part 8)	h) Power Generators shall meet the requirements of Environmental (Protection) Rules 1986 as laid down by Min. of Environment & Forests read with GSR 371 (E) dated 17.5.2002, GSR 520(E)dated 1.7.2003, No.448 (E)dated 12.07.2004, GSR 771(E) dated 11.12.2013 GSR 232(E)dated 31.03.2014, Gazette Notification No.167 dated. 31.03.2014 and Gazette Notification No. 578 dated. 11.11.2014 in respect of noise and emission norms. The latest amendments to above GSRs shall be applicable as and when amended by Ministry of Environment and Forest.
56.	General Technical Requirements (GTR) / Commissioning (Part 9)	i) Standard set of tools consisting of a set of 3 spanners, one screw driver, one standard plier and one nose plier of appropriate size shall be provided along with each Power Generator.
57.	General Technical Requirements (GTR) / Commissioning (Part 10)	j) Supply of Fuel tank of suitable capacity, sufficient for minimum 8 hours running the Power Generator, is inclusive in the scope of supply. Fuel Tank shall be complete with fuel piping (between fuel tank and diesel engine), valves, level indications and all standard accessories. MS pipes, heavy class of suitable diameter conforming to IS 1239 (Part-1) - latest shall be used for fuel piping.
58.	General Technical Requirements (GTR) / Commissioning (Part 11)	seller shall provide mains and DG contactor/breaker, Exhaust piping, extra civil work, distribution board shall be provided by the buyer. iii. Consumables such as filters, lube oil at the time of servicing during warranty period shall be provided by the buyer. iv. Obtaining necessary approvals, if any, is the responsibility of the buyer.
59.	Installation	with installation - inclusive in the scope of supply
60.	Scope of installation for Diesel Generating Set when offered by the vendor - inclusive in the scope of supply (Part-1)	a) Installation of Power Generator when offered by the vendor is inclusive in the scope of supply and shall be done by the seller. The installation work of Power Generator and its constituent parts shall be generally conforming to CPWD General Specification for Electrical Works, Part - VII - latest.
61.	Scope of installation for Diesel Generating Set when offered by the vendor - inclusive in the scope of supply (Part-2)	c) Supply, laying and termination of interconnecting power and control cable shall be done by the seller. The cable supplied shall be ISI marked heavy duty PVC insulated, armoured cable, with PVC outer Sheath of Type ST-2 (FR Grade, Category C1), with aluminium conductor having insulation of PVC compound type -C, suitable for rated voltage up to and including 1100 volts and conforming to IS: 1554 (Part-1) latest. For 3-Phase Power Generators, 3.5 core or higher core cables shall be used. Total length of the cable supplied by the seller shall be and within 60 metres for each Power Generator with AMF control panel. The current rating of the cables shall be as indicated below.

62.	Scope of installation for Diesel Generating Set when offered by the vendor - inclusive in the scope of supply (Part-3)	4 C 16 Sq. mm Aluminium
63.	Scope of installation for Diesel Generating Set when offered by the vendor - inclusive in the scope of supply (Part-4)	e) Construction of suitable earthing and necessary connections shall be done by the seller. All the materials / labour required for construction of earthing station shall be supplied by the seller. The total number of earthing pits/stations shall be 4, i.e., 2 for neutral and 2 for body-earthing. Neutral earthing and Body earthing shall be done with copper Plate. The consignee should choose installation site in such a way that the earthing stations can be made within 10 metres of the Power Generator. Earthing shall be typically constructed as per prevalent standard practices and shall be generally conforming to CPWD General specification for Electrical Works, Part - VII & Part - I - latest. e) Installation of Fuel Tank including foundation / stand shall be done by the seller. f) The warranty is applicable up to specified value of month/hours whichever occurs firsts.
64.	Warranty on Complete power generator/DG Set	24 months or more
65.	Warranty in running hours	5000 hours
66.	Number of preventive maintenance visits offered in a year during warranty period (Supply of all consumables is the buyer's responsibility) *	1 or more
67.	Response Time to attend the complaint during Warranty	2 day
68.	Time Duration for Repairing /Replace the defect during Warranty	3 day
69.	Type of lab which carried out Test of Complete Product to prove the conformity of product as per specification	Certificates required as per CPCB, NABL accredited lab
70.	Test report Available for (Test/approval)	Type Approval Certificate for the specified rating of the Power Generator from any of the designated agency authorized by CPCB, COP Certificate for engine, Type test report and Endurance test report for Engine as per IS: 10001 latest / IS: 10002 latest, Type test report for Alternator as per IS:13364 (Part-1) latest / IS:13364 (Part-2) latest to prove conformity to the specifications
71.	Agree to provide all relevant documents Test Report/supporting document /reports etc to the buyer at the time of bidding or on demand	YES

These conditions are mandatory and will override already selected parameters/conditions in case any difference.