

**GOVERNMENT OF MEGHALAYA
MEGHALAYA BASIN DEVELOPMENT AUTHORITY
(MBDA)**

**COMMUNITY-BASED FOREST MANAGEMENT AND
LIVELIHOOD IMPROVEMENT IN MEGHALAYA**

REQUEST FOR QUOTATION(RFQ)

FOR

SUPPLY OF 10 KVA SILENT DIESEL GENERATOR SET

**Additional Project Director
Community-Based Forest Management
and Livelihood Improvement in Meghalaya
Meghalaya Basin Development Authority (MBDA), Shillong**



MBDA//2020-21/288

Date:13th May, 2020

LETTER OF INVITATION

From

Dr. Raja Ram Singh, IFS
Additional Project Director,
Community-Based Forest Management and Livelihood
Improvement in Meghalaya
Meghalaya Basin Development Authority (MBDA)

To: _____

SUB: REQUEST FOR QUOTATION FOR SUPPLY OF 10 KVA SILENT DIESEL GENERATOR SET

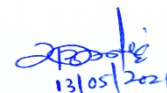
Sir/Madam,

1. You are invited to submit your most competitive quotation for the supply of 10 KVA Silent Diesel Generator Set as indicated below:

Sln o	Brief Description of the Goods*	Quantity	Delivery Period	Installation & Commissioning Required?
1	10 KVA Silent Diesel Generator Set	1 No	Within 30 Days	Yes

**Detailed Specifications given at Annexure 1*

2. Your quotation in sealed envelope should be addressed to:
Additional Project Director,
Community-Based Forest Management and Livelihood Improvement in Meghalaya,
Meghalaya Basin Development Authority (MBDA)
2nd Floor, Shalom Building, Lower Lachumiere,
Shillong -793001, Meghalaya.
3. The deadline for receipt of your sealed quotation is 28th May, 2021 by 15:00 Hrs. (IST). Quotations will be opened on 28th May, 2021 at 15:30 Hrs. Quotations received after due date shall be rejected.

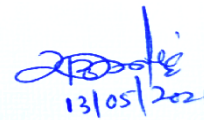

13/05/2021

(Dr. Raja Ram Singh)
Additional Project Director, JICA assisted project
MBDA, Shillong.

Terms and Conditions

1. **Eligibility:** A Bidder (a) shall be a Citizen of India; (ii) Should not be blacklisted or suspended by Central or any State Government Departments in India.
2. **Clarifications & Amendments:** If the Purchaser receives any request for clarification of this RFQ Document, the response together with any amendment to this document shall be uploaded on www.mbda.gov.in for information of all Bidders. Bidders should check on website, for any amendments to the terms and conditions and for Award of Contract. No Clarifications will be entertained with only one week time left for opening. The email id for any procurement related correspondence is jicaprocurement.mbda@gmail.com.
3. **Delivery Period:** 30 days from the date of issue of supply order.
4. **Place of Delivery:** Meghalaya Basin Development Authority (MBDA), JICA office, 2nd Floor, Shalom Building, Lower Lachumiere, Shillong -793001, Meghalaya.
5. **Quotation Price:**
 - a) The bidder must quote the price inclusive of all duties, taxes and other levies payable on the raw materials and components and cost of installation and commissioning.
 - b) Goods and Service Tax (GST) should be indicated separately.
 - c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - d) The Prices shall be quoted in Indian Rupees only.
 - e) Bidder must expressly mention the make/brand of the item offered by them in the price schedule along with proper product brochures.
6. **Documents for Qualification:** Bidders are requested to submit copies of the following documents as evidence of your qualification:
 - a. Valid trading license/registration or equivalent/Exemption Certificate
 - b. Incorporation Certificate.
 - c. Valid certificate of GST registration;
 - d. Certificate of Distributorship/Authorization from Original Equipment Manufacturer (OEM)
 - e. Test/ Approval Certificate for the specified rating of the Power Generator from any of the designated agency authorized by CPCB.
 - f. Declaration (**Annexure II**)
7. **Validity of Quotation:** Quotations shall remain valid for a period not less than 90 days after the deadline date specified for submission.
8. **Evaluation of Quotations:** The Purchaser will evaluate and compare the quotations that are determined to be substantially responsive i.e., which
 - (a) are properly signed;
 - (b) confirm to the terms and conditions, Specifications (**Annexure I**), General Technical Requirements (**Form 1**), Scope of Installation (**Form 2**).
 - (c) Information provided by the bidder will be evaluated and any historical information, if required may be asked from the bidders during evaluation of quotes.

9. **Award of contract:** The Purchaser will award the supply orders to the bidders whose quotations have been determined to be substantially responsive and who has offered the lowest evaluated quotation price. The announcement for this assignment will be published in www.mbda.gov.in
- a. Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract. The numbers against each item may increase or decrease by 10 to 15 percent at the time of issuing the Purchase Order.
 - b. The bidder whose quotation is accepted will be notified of the issue of Supply Order by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply order.
10. **Payment:** Payment shall be made with 60 days after delivery of the goods.
11. Demonstration and operation will have to be exhibited by the Supplier/Manufacturer's representative in respect of the equipment as and when called for at the cost of the Supplier.
12. The Supplier shall:
- (a) have Service Center at Shillong to attend any call from the Purchaser or Representative for any difficulties and solve the problem within three days.
 - (b) employ suitable skilled persons to carry out the installation and commissioning if required.
13. Warranty:
- (a) The warranty shall be 24 months from the date of delivery, installation and commissioning.
 - (b) Two number of preventive maintenance visits in a year during warranty period.
 - (c) Maximum Response Time to attend the complaint during Warranty shall be 2 days.
 - (d) Time Duration for Repairing /Replace the defect during Warranty shall be 10 days.
14. The Purchaser reserves the right to withdraw or cancel the Request for Quotation anytime during the bid validity period without citing any reason thereof.



(Dr. Raja Ram Singh)
Additional Project Director, JICA assisted project
MBDA, Shillong.

FORMAT OF QUOTATION *

Sl. No.	Description of Goods	Specifications	(complied or Not complied as per requirement)	Make	Quantity	Quoted Unit Rate at destination in Rs.	GST Rate	*Total Price per line item at Destination - inclusive of discounts, all taxes and duties	
								In Figures	In Words
1	10 KVA Silent Diesel Generator Set				1				

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs..... (amount in figures) (Rs. amount in words) within the period specified in the Invitation for Quotations.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery or collusive agreements with competitors.

Signature and seal of the Supplier

SPECIFICATIONS - SILENT DIESEL GENERATOR SET

A	POWER GENERATOR		Meeting the Requirement (Yes/No)
	Power Generator installation configurations as defined in CPWD General Specifications for Electrical works - Part VII (DG Set)	Fixed (Power Generators are permanently installed)"	
	Salient Features of Power Generator	Glass window on Accoustic Enclosure in front of the Control Panel, Emergency Stop outside the Accoustic Enclosure	
B	OUTPUT CAPACITY RATING/ PHASE		
	Nominal Rated Capacity (kVA)	10	
	No of Phase	Three	
C	ENGINE		
	Rated Engine Power (kWm)	100 % of the required powered at STP(Standard Temperature Pressure) i.e equal to (Nominal Rated Capacity (KVA) of power generator + Any Auxilary power Consumption by the Power generator) x Power factor(0.8) / Alternator effience	
	Type of Engine cooling	Air Cooled	
	Type of governer	Mechanical	
	Number of cylinders (nos)	2	
	No of Strokes (nos)	4	
	Rated RPM of Engine (RPM)	1500	
	Fuel	High Speed Diesel (HSD)	
	Overload capacity	Engine should be capable of delivering an output of 10% in excess of rated KVA for a period of one hour in any period of 12 hours continuous running	
	Specific Fuel Consumption (gm/kWh)	200 to 265	
	Starting voltage (volt)	12	
	Salient Features of Engine	Direct injection Fuel System	
	Lube Oil change period	500 hours	
	Class of governer	A2 or better	
D	ALTERNATOR		
	Alternator Voltage Rating	415 Volt	
	Rating of AC Generator (KVA)	10	
	Power Factor of AC generator	0.8	
	Efficiency at rated Power factor at 75% of full Load	82 - 86 percent	
	Conformity to Indian Standard (for Alternator	Yes	
	Type of alternator	Brushless	
	Voltage Regulation Grade	VG 3	
	Alternator IP Rating	IP 23	

	Class of Insulation	H	
	Max Voltage Dip at Full Load 0.8 pf Lag	< 20%	
	Max Time to build up rated voltage at Rated RPM	< 5 sec, provided engine reach the rated speed	
E	CONTROL PANEL		
	Control Panel	AMF Control Panel	
	Control Panel Location	Inside the canopy	
	IP Rating of Control Panel	IP 53 or IP 54	
	Display meters in the control panel (with appropriate rating and accuracy class)	Multifunctional Digital display meter (displaying Voltage, Current, Frequency, Power Factor)	
	Other devices in the control panel (with appropriate rating)	Required switches and cutout, MCB, MCCB, Circuit breaker, Battery charger	
	Displayed parameters/Features	Engine Speed, Lube oil pressure, 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	
	Indicators	Low Lube oil pressure, High water / coolant / cylinder head temperature, Low fuel level, Over speed	
	Audio Alarm	Low Lube oil pressure, High water / coolant / cylinder head temperature, Low fuel level, Over speed	
F	ACOUSTIC ENCLOSURE		
	Acoustic Enclosure	Yes, Power Generator supplied with Acoustic Enclosure	
	Sheet Thickness(mm)	1.2 or better	
	Thickness of insulation	20 millimetre or better	
	Noise level at 1 meter (dB)	< 75	
G	FUEL TANK		
	Fuel Tank Capacity	50 litres & above	
	Number of Fuel tank	1	
	Fuel Tank Sheet Material Thickness(mm)	2	
	Fuel Tank Fabricated Material	M.S Sheet or better	
	Fuel Tank Features	Fuel Tank capacity should be sufficient for 7-8 hrs of running at full load	
H	BATTERY		
	Battery Type & Specification	"Low Maintenance free to IS: 14257 for high cranking performance"	
	Battery capacity (Ah)	75 or above	
	No of batteries	1	
I	ADDITIONAL FEATURES		
	Remote Monitoring	Monitoring from desktop/laptop/mobile, etc	

DECLARATION

RFQ No. _____

Date: _____

To

The Additional Project Director,
Community-based Forest Management and Livelihood Improvement in Meghalaya,
Meghalaya Basin Development Authority (MBDA),
Shillong-793001, Meghalaya.

We, the undersigned, declare that:

- (i) We offer to supply in conformity with the Terms and Conditions and in accordance with the delivery schedule as specified.
- (ii) Our Quotation shall be valid for a period of 90 days from the date fixed for the bid submission deadline in accordance with the terms & conditions.
- (iii) We are not insolvent, in receivership, bankrupt or being wound up or subject to legal proceedings for any of these circumstances.
- (iv) Our business activities are not suspended or debarred from public procurement by the State Government of Meghalaya, any other State Government or Government of India.

Name [Insert complete name of the person signing the Bid] :

Designation [Insert legal capacity of person signing the Bid] :

Signed [Insert signature of person whose Name and capacity shown above] :

Duly authorized to sign the Bid for and on behalf of [Insert complete Name of the Bidder] :

Date:

FORM 1: General Technical Requirements (GTR) / Commissioning

Sl No	Requirement	Compliance (Yes/No)
1	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.	
2	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.	
3	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.	
4	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.	
5	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 cutout / MCB / MCCB / Contactor / Circuit breaker for the DG output of appropriate rating and accuracy class as per trade practice for better utility.	
6	Supply and installation of a change-over Switch / MCCB of suitable rating for Power Generator with manual control panel, where applicable, is inclusive in the scope of supply.	
7	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	
8	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.	
9	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.	
10	Supply of Fuel tank of suitable capacity, sufficient for minimum 8 hours running/990 litres (whichever is lower) 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 dia conforming to IS 1239 (Part-1) - latest shall be used for fuel piping.	

FORM 2: SCOPE OF INSTALLATION

Slno	Requirement	Compliance (Yes/No)
1	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. 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 400 mm, i.e., 200 mm below and 200 mm above the ground level. All the materials / labour required for foundation work shall be supplied by the seller.	
2	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 400 mm, i.e., 200 mm below and 200 mm above the ground level. All the materials / labour required for foundation work shall be supplied by the seller.	
	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 upto 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 within 30 meters for each Power Generator with manual control panel and within 60 metres for each Power Generator with AMF control panel. The current rating of the cables shall be indicated 40 KVA 4C, 4 Sq mm for Three Phase	
	Construction of suitable earthing station 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. Earthing station 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	

	Installation of Fuel Tank including foundation / stand shall be done by the seller	
	Supply and installation of a change-over Switch / MCCB of suitable rating for Power Generator with manual control panel, where applicable, is inclusive in the scope of supply.	
	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	
	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.	
	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.	
	Supply of Fuel tank of suitable capacity, sufficient for minimum 8 hours running/990 liters(whichever is lower) 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 dia conforming to IS 1239 (Part-1) - latest shall be used for fuel piping.	