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No. F-8() RMSC/EPM/M-6/NIB-878/2024-25/ 607

Dated: 21/1/25

CLARIFICATION/CORRIGENDUM/ADDENDUM

Subject:- Revised Technical Specification and bid schedule of bid document of item 50 KVA DG Set, under No. F-80 RMSC/EPM/M-6/NIB-878/2024-25/556 date: 19.12.2024

1. Revised Technical Specification

Revised technical specifications	
<p>A. Supply, Installation, Testing & Commissioning of Silent DG Set (As per CPCB -IV+ emission Norms) complete with 1500 RPM Diesel Engine of suitable BHP & AC Brush less SPDP Alternator mounted on a common base Frame & coupled through a flexible coupling or close coupled. Alternator shall be self regulated with standard Alternator Protection (Over voltage, over speed & under voltage, under speed warning & shutdown). Engine shall have residential silencer, up to 3 M exhaust piping, electronic / Mechanical governor, Manual & electric Start, Batteries, Engine instruments panel, AVM and with Weatherproof, powder coated Acoustic enclosure for DG set for sound attenuation fabricated from 1.6 to 2.0 mm CRCA sheet steel (structure) with side wall & doors fabricated from 1.6 to 2.0 mm CRCA sheet & filled with 40mm thick glass wool (96Kg/m³)/20 mm PU Foam or as per latest CPCB IV+ norms which ever applicable. All doors/ opening are sealed with neoprene/EPDM gaskets. The enclosure has built in fuel tank, residential silencer with protection and tripping of DG set against temperature of more than 50 degree centigrade.</p> <p>B. All controls for operation of DG set are visible and accessible from outside the enclosure with DG control panel having Microprocessor based Genset monitoring & control system, MCCB, Ammeter, Voltmeter, PF meter, frequency meter, KWH meter, Ind.lamps etc. mounted inside enclosure. The enclosure should be suitable for following capacity DG sets and alternator. Noise level shall be less than 75 dBA at a distance of 1 Mtrs, duly certified by authorized agency etc. complete in all respect of following capacity.</p> <p>C. A-Air Cooled & Naturally Aspirated/ Radiatorcooled/Turbo charged-</p> <p>D. 50 KVA at 0.8 pf 415V 50Hz 3-Ø</p> <p>E. SITC of Auto main failure (AMF) Panel fabricated from CRCA sheet steel 1.6 to 2 mm Thick, Powder coated finish, Engine Start & Stop commands, control Relays, selector switches based on composite multifunction meter for Ammeter & Voltmeter, Control & Power Contactors, Timers, Electronic Hooter, Visual & Alarm indication for faults, operator interface panel complete in all respect suitable for following capacity DG sets with PLC/Relay Based: 50 KVA</p> <p>F. S/F of DG Set Exhaust Piping insulation on 80 mm to 150 mm Dia. MS Exhaust Piping as per CPCB-IV+ normswith Rock/Glass wool with 22 g Aluminum cladding (Der. 1.96 kg/m³, Thickness-50 mm)</p> <p>G. Construction of Platform of Size 3600 x 1800 x 100 mm Resting on concrete, 150 mm thick concreting under masonry wall and C.C. floor, 50 mm thick masonry wall as required as per site condition and 75 mm thick C.C. floor, outer face of wall should be finished with</p>	<p>Signature valid</p> <p>Digitally signed by Dr. Akash Alha Designation: Executive Director Date: 2025.01.21 17:08:00 IST</p> 



20 mm thick cement plaster complete with all respect.

H. Plate Earthing as per IS:3043 with copper Earth plate of size 600mm x 600mm x 3.0mm by embodying 3 to 4 mtr. below the ground level with 25 mm dia. G.I. 'B' class watering Pipe Including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.L. Cover, C.I. Frame of size 300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required. 2 Nos.

I. Maintenance free Gel Earthing with Pipe in pipe/Pipe in strip technology filled with anti corrosive conductive compound (CPRI Tested) below the ground in 150-200 mm dia. earth pit & surrounding filled with required mineral filling compound (MFC should have hygroscopic property to retain the moisture for long time to create low resistance zone) and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300mm complete testing of earth resistance as required. of following sizes. 2 Nos.

With Strip in Pipe Technology with 80- 100 micron GI Coating & GI pipe 2000 mm long, 63/80mm, Inner strip 50 mm x 3 mm copper.

J. S & Laying following size earth wire/strip in horizontal or vertical in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required. 20mm x 3mm copper strip. 40 mts.

K. P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminum conductor of IS:1554 P-I/ IS :7098 PI of Group 1 of approved make. The cables laid on surface by means of screws, rag bolts, MSU clamps, as per approved spacing. 50.0 Sq.mm 3.5 core (armoured). 40 mts.

L. The length of exhaust pipe up to 3 mtr is included in quoted rate if length beyond 3 mtr is required as per site, then the bidder should quote rates per mtr basis as per specification mentioned.

M. P&F on load change over switch, front handle operated, four pole 415 V conforming to IS:13947 P-III including connections, testing etc. as required in the following rating:: With sheet steel enclosure: 125 A 50.0 Sq mm 3.5 Core Armoured Cable (If requires more than 40 mts. of length bidder should quote cable rate per meter.) All wiring should be in copper except specified.

N. Connection with the existing electrical panel shall be done by the Firm.

O. The Bidder Should Quote rate per mtr. In BOQ for 50 SQ mm 3.5 Core Cable and Exhaust Pipe as per specification mentioned.

P. The firm should submit valid type of approved certificate with authorization from CPC/PCB following are the mandatory required certification:-

(i) Type of approval/COP data for emission compliance of diesel generator from ARAIVCAT/VRDE.

(ii) Type of approval/COP data for noise compliance of diesel generator from FCRI/ARAI/NAL/ICAT.

Q. Onsite maintenance of the whole work/product shall be for 5 years from completion of guarantee Period (CMC)

R. Complete work shall be carried out by the manufacturer.

Signature valid

Digitally signed by Dr. Akash Alha
Designation: Executive Director
Date: 2025.01.21/15:08:00 IST
Reason: Approved



S. Guarantee shall be given by principal manufacturer/authorized dealer/executing agency of the product and allied installation work for the period of 2 years from the date of installation. Bidder should mention guarantee/Service provider.

T. Comprehensive Maintenance Service: CMC will be given @ 3% of net rate excluding GST (as applicable) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after Guarantee period of two years.

U. During Guarantee and onsite maintenance period consumables like all kind of filters, Engine oil, coolant, fan belt, washers, diesel, distilled water for batteries and hose pipes will be provided by the department as and when required also quarterly inspection and two services/year will be will be provided by the manufacturer free of cost. Pre-Dispatch and Post Installation Inspection will be done by nominated Committee.

2. Revised Bid Schdeule—

E-bids are invited as per following revised time schedule:-

Existing Dates				Extended Dates			
Last date & time for sale of bid form	Last date & time of receipt of bid form	Last date of submission of bid document fees	Date & time of opening of technical bid	Last date & time for sale of bid form	Last date & time of receipt of bid form	Last date of submission of bid document fees	Date & time of opening of technical bid
<u>23.01.2025</u> 11:00 a.m.	<u>23.01.2025</u> 6:00 p.m.	<u>24.01.2025</u> 02:00 p.m.	<u>24.01.2025</u> 03:00 p.m.	<u>03.02.2025</u> 11:00 a.m.	<u>03.02.2025</u> 6:00 p.m.	<u>04.02.2025</u> 02:00 p.m.	<u>04.02.2025</u> 03:00 p.m.

Note:- Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-VIII) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.

**Executive Director (EPM)
RMSCL, Jaipur**

Signature valid

Digitally signed by Dr. Akash Alha
Designation: Executive Director
Date: 2025.01.21 15:08:00 IST
Reason: Approved