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No. F-8() RMSC/EPM/M-3/2020-21/NIB-481/4686

Dated: 02/09/2020

CLARIFICATION/CORRIGENDUM/ADDENDUM

Sub:- Amended Technical Specificaton and revised bid submission date of the rate contract for item 5 KVA Diesel Generator Set for under NIB No. F-8() RMSC/EPM/M- 3/2020-21/NIB-481/3601 date: 24.02.2020

In Reference to subject cited above and NIB-481, the various representations received from the firms and issues raised by the Bidders are examined by the competent Authorities and technical committee. The following Clarification/Corrigendum/Addendum is issued for inclusion in Bid document of items as below:-

Amended Technical Specification of 5 kVA Diesel Generator Set (Self Start Silent Type)

S.N.	Changes suggested by technical committee after pre-bid representation
1.	Supply, Installation, Testing & Commissioning of Silent DG Set complete with 3000 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, 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 fabricated from 1.6 to 2.0 mm CRCA sheet & filled with 10mm thick glass wool (96Kg/m3)/ Foam. as per IS 8183 the doors of 10 mm thick and fabricated from 1.6mm CRCA sheet packed with acoustic material, 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.
2.	Against temperature of more than 50 degree centigrade. 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 75dBA at a distance of 1 meter duly certified by authorized agency etc. complete in all respect of following capacity.
3.	Air Cooled & Naturally Aspirated/ Radiator cooled/Turbo charged.
4.	5 KVA at 0.8 pf 240V 50Hz 1-Ø
5.	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 or 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.
6.	PLC /Relay Based: 5kVA
7.	S/F of DG Set Exhaust Piping insulation on 80 mm to 150 mm Dia. MS Exhaust Pipe as per CPCB-2 norms. (If additional exhaust pipe is required at consignee place.)
8.	Rock /Glass wool with 22 g Aluminum cladding (Density- 96 kg/m3, Thickness-50 mm) (If additional exhaust pipe is required at consignee place.)
9.	Plate Earthing as per IS: 3043 with copper Earth plate of size 300mm x 300mm x 3.0mm by embodying 3 to 4 meter 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.I. Cover, C.I. Frame of size 300mmx300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required 1



	Numbers.
10.	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 diameter 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 300mmx 300 mm complete testing of earth resistance as required of following sizes. 1 numbers with strip in pipe technology with 80-100 micron GI Coating. GI pipe 2000 mm long, 63/80mm, Inner strip 50 mmx3mm copper.
11.	S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required. 20mm x 3mm copper strip. 40 meter.
12.	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 P - I of Group 1 of approved make. The cables laid on surface by means of screws, rag bolts, MSU clamps, as per approved spacing. 16 Sq.mm twin Core aluminum armoured PVC insulated cable having current carrying capacity of 1 core of 2 core cable is 63 Amp. As per PWD BSR table- E06, point no. 2
13.	Quote the rate of exhaust pipe per meter in the technical bid.
14.	16 Sq.mm twin Core aluminum armoured PVC insulated Cable (If requires more than 40 meter of length bidder should quote cable rate per meter).
15.	P&F on load change over switch, front handle operated, two pole 240V conforming to IS:13947 P-III including connections, testing etc. as required in the following rating: With sheet steel enclosure: 32A
16.	Continuous output 4000W
17.	Inbuilt Static Battery Charger Volts / Current (DC) 12V / 10 Amps
18.	Inbuilt Battery Voltage (DC) & Capacity (AH), 12 Voltage (DC)/ 35AH, Make- Amron or Exide including separate 1 years free Service/ Replacement Warranty
19.	Fuel Consumption: Test certificate of quoted model from OEM at different load conditions must be provided at the time of technical bid. Fuel Tank Capacity: Minimum 20 L
20.	Lubricating Oil system : Lubricating oil sump capacity (L) 1.75, Oil change period (Hrs.) 300 ,Oil consumption (%SFC) ≤0.1
21.	Voltage regulation : No load to full load +5%, -10%
22.	All wiring should be in copper except specified.
23.	Connection with the existing electrical panel shall be done by the Firm.
24.	For which test certificate shall be produced from govt. approved agency.
25.	Bidder should Quote rates including installation work in all respect
26.	The firm should submit valid type of approved certificate with authorization from CPC/RPCB following are the mandatory required certification :- a) Type of approval/COP data for emission compliance of diesel generator from ARAI/ICAT/VRDE. b) Type of approval/COP data for noise compliance of diesel generator from FCRI/ARAI/NAL/ICAT.
27.	Onsite maintenance of the whole work/product shall be 5 years from Completion of warranty (CMC)
28.	Complete work shall be carried out by the manufacturer.
29.	Warranty shall be given by principal manufacturer agency of the product and allied installation work for the period of 3 years from the date of installation.
30.	Comprehensive Maintenance Service: CMC will be given @ 5% 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 warranty period of three years.
31.	During warranty and onsite maintenance period consumables like all kind of filters, Engine oil, coolant , fan belt, washers, 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.
32.	Pre-Dispatch and Post Installation Inspection will be done by nominated committee.
33.	Other terms and condition to be covered during warranty period by the supplier:-

(Handwritten signature)



1. Response time- < 24 Hours after logged the complain in complaint portal.
2. Service hours- As per health facility schedule.
3. Preventive Maintenance Schedule (PM)-As per OEM (Mention PM Schedule)
4. Calibration Schedule – As per OEM (Mention PM Schedule)
5. Technical & Application Support, Demonstrations & Trainings - As & when required
6. Toll Free No-
7. Life of the equipment- As per OEM

1. Date extension of Bid:-

Please note that all clarification/amendment/corrigendum in technical specifications/bid conditions is the integral part of the bid document. This corrigendum/ addendum should be signed and annexed with bid document.

Previous Last Date & time of receipt of Bid Form	Previous Date & time of opening of technical bid	New Last Date & time of receipt of Bid Form	New Date & time of opening of technical bid
10.09.2020 6:00 p.m.	11.09.2020 11:00 a.m.	21.09.2020 6:00 p.m.	22.09.2020 11:00 a.m.

All other terms & conditions remains the same.


Executive Director (EPM)
RMSCL, Jaipur