



cmpdi
A Mini-Ratna Company

सेन्ट्रल माईन प्लानिंग एण्ड डिजाइन इन्स्टीच्यूट लिमिटेड
(कोल इण्डिया लिमिटेड की अनुषंगी कम्पनी / भारत सरकार का एक लोक उपक्रम)
गोन्दवाना प्लेस, काँके रोड, राँची - 834 031, झारखंड (भारत)

Central Mine Planning & Design Institute Limited
(A Subsidiary of Coal India Limited / Govt. of India Public Sector Undertaking)
Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand (INDIA)

No. TE/F-814/16/WO-145/

Dt. 30.11.2016

To
M/s Jaikar Techno Private Limited
Plot No. 43, Near Imam Kothi, Old Hazaribagh Road,
Kokar,
Ranchi - 834009

Sub : Work order for the work of “Renewal of Annual Maintenance Contract of 2 nos. 250 KVA DG set installed in CMPDI Campus, Ranchi”.

Ref. : 1. Work order No. CMPDI/MM/06-07/3026/PG/25/TE/DG set/00058 dt. 07.08.2007.
2. Your letter No. RNC/JTPL/AMC/2016-17/126 dt. 16.09.2016
3. Your letter No. RNC/JTPL/AMC/2016-17/151 dt. 28.10.2016.

Dear Sir,

We invite reference to the above and we are pleased to convey that your offer to undertake the subject work at a total value of ₹ 29,13,970.00 (Rupees twenty nine lakhs thirteen thousand nine hundred seventy only) (applicable taxes extra) has been accepted subject to the following stipulations:

Annual Maintenance Contract (AMC) :

The DG set will under AMC for a period of 5 years i.e. from **01.12.2016 to 30.11.2021**.

AMC Payment : Payment towards AMC (i.e. spare parts + service charges) will be made on half yearly basis after successful completion of six months of AMC period by HOD(TE&CM), CMPDI (HQ), Ranchi. You will submit your bill to HOD(TE&CM), CMPDI (HQ), Ranchi along with necessary document for arranging payment in time.

The AMC will include

Scope of Work

- Annual Maintenance Contract covers the servicing and maintenance of DG set. Maintenance of DG set will be done as per recommended service manual and as per requirement.
- You must give atleast 24 visits i.e. 2 visits per month within the AMC period for regular (periodic & preventive) maintenance, servicing etc. for 2 nos. 250 KVA DG set.
- Any type of trouble occurrence in the DG set will be attended on priority within 12 hours.
- Minor breakdown comprises of the following and no spares will be provided by CMPDI for these repair/replacement.
 - Leakage in engine.
 - Repair/replacement of solenoid valve.
 - Gasket replacement.
 - Coupling bolt replacement.
 - After cooler repairing/replacement.
 - PT pump/nosel calibration repairing/replacement if required.
 - Repairing/replacement of safety controls.
 - Head repairing, piston ring changing etc.
 - Diesel pump repairing/calibration.



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- x) Water pump repairing/replacement.
- xi) Self excitation & AVR repairing/replacement.
- xii) Any repairing work in alternator except rewinding of alternator.
- xiii) All type of repairing/replacement of spares in AMF panel except replacement of magnetic contactor 400 Amps.
- xiv) Lube oil replacement in servicing.
- xv) Cleaning/repairing/replacement of radiator.
- xvi) Replacement of batteries as and when required.
- xvii) For any other minor breakdowns.
- e. Down Time
 - i. DG set should be attended within 12 hours of complaint reported.
 - ii. Rectification work should be completed within 24 hours.
 - iii. In case of minor breakdown, if the work are not possible to complete at site it will allowed to complete within two days at your workshop at your own cost.
- f. Down time Penalty
 - i. You will guarantee 95% availability of the equipment of satisfactory working.
 - ii. The machine downtime will be calculated from the next day of complaint. The availability percentage will be calculated for each half year (i.e. Bi-annually). Penalty will be imposed on penalty on pro rata basis if the availability falls below 95%. Generator should be fit for gainful use round the clock. Machine down time will be calculated on a daily basis starting from 24 hrs after reporting of the complaint.

$$\text{PENALTY} = (95\% - \text{Actual availability}) \times \text{AMC Charge} \\ (\text{No. of days in six months} \times 24 \text{ hrs.} - \text{downtime hrs}) \times 100$$

$$\text{Actual availability} = \frac{\text{No. of days in six months} \times 24 \text{ hrs.} - \text{downtime hrs}}{\text{No. of days in six months} \times 24 \text{ hrs.}}$$

- iii. Penalty for any half year to be imposed will be calculated on the basis of table below :

Availability%	Penalty
95% and above	Nil
75% to 94%	As per rate calculated above ii.
50% to 74%	Double the calculated amount as per rate calculated above ii.
Below 50%	No AMC payment for that half year.

The AMC rates shall remain firm till completion of AMC period. AMC rate/charges will be payable as follows :

A. SERVICE CHARGES :

Description	Year	Qty	Unit Rate	Amount
Charges towards AMC for Cummins Engine coupled with 250 KVA Alternator for 5 (five) years.	1 st year	2	42871.00	85742.00
	2 nd year	2	47158.00	94316.00
	3 rd year	2	51874.00	103748.00
	4 th year	2	57061.00	114122.00
	5 th year	2	62767.00	125534.00
Total Rs.				523462.00

(Applicable service tax extra).



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B. COST OF SPARES :

Year	Total Number of Engine/s	Description	Total Qty. / Engine / Year	Unit Rate of Spares Parts / Engine / Event	Total Cost of Spare Parts / Engine / Year	Total for 2 Engines / Year	Grand Total for 2 Engines / Year.
First Year	2	B-Check Maintenance Kit.	2	17600.00	35200.00	70400.00	164780.00
		Air Cleaner	2	3850.00	7700.00	15400.00	
		Belt	1	5280.00	5280.00	10560.00	
		Coolant Hoses (Set)	1	15290.00	15290.00	30580.00	
		Cooling System Re-charge	1	9240.00	9240.00	18480.00	
		Radiator Cleaning.	1	9680.00	9680.00	19360.00	
Second Year	2	B-Check Maintenance Kit.	2	19360.00	38720.00	77440.00	300174.00
		Air Cleaner	2	4235.00	8470.00	16940.00	
		Belt	1	5808.00	5808.00	11616.00	
		Upper Engine Gasket Set	1	34334.00	34334.00	68668.00	
		Water pump	1	9031.00	9031.00	18062.00	
		Battery	2	15730.00	31460.00	62920.00	
		Self Starter, Charging Alternator Repairing	1	11616.00	11616.00	23232.00	
		Radiator Cleaning.	1	10648.00	10648.00	21296.00	
3rd Year	2	B-Check Maintenance Kit.	2	21296.00	42592.00	85184.00	237658.00
		Air Cleaner	2	4659.00	9318.00	18636.00	
		Belt	1	6388.00	6388.00	12776.00	
		Coolant Hoses (Set)	1	18501.00	18501.00	37002.00	
		Cooling System Re-charge	1	11180.00	11180.00	22360.00	
		Radiator Cleaning.	1	11713.00	11713.00	23426.00	
		Magnetic Pick-up.	1	19137.00	19137.00	38274.00	
4th Year	2	B-Check Maintenance Kit.	2	23426.00	46852.00	93704.00	1446644.00
		Air Cleaner	2	5124.00	10248.00	20496.00	
		Belt	1	7028.00	7028.00	14056.00	
		Upper Engine Gasket Set	1	41544.00	41544.00	83088.00	
		Water pump	1	10928.00	10928.00	21856.00	
		Battery	2	19033.00	38066.00	76132.00	
		Self Starter, Charging Alternator Repairing	1	14055.00	14055.00	28110.00	
		Radiator Cleaning.	1	12884.00	12884.00	25768.00	
		Top Overhauling.	1	541717.00	541717.00	1083434.00	
5th Year	2	B-Check Maintenance Kit.	2	25768.00	51536.00	103072.00	241252.00
		Air Cleaner	2	5637.00	11274.00	22548.00	
		Belt	1	7730.00	7730.00	15460.00	
		Coolant Hoses (Set)	1	22386.00	22386.00	44772.00	
		Cooling System Re-charge	1	13528.00	13528.00	27056.00	
		Radiator Cleaning.	1	14172.00	14172.00	28344.00	

Grand total for 2 nos. DG for 5 (five) years : 2390508.00
(Applicable VAT extra).



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- B-Check Maintenance Schedule – 300 hours of 6 months whichever occurs earlier.
- Air Cleaner will be replaced every alternate maintenance.
- Any other spare parts except those listed at Sl.No. g (Major Breakdown) under the head AMC will have to be provided by you for smooth and uninterrupted operation of DG set.

The AMC charges for spare parts / overhaul would be made on the basis of actual consumption and during the year in which the same is replaced/overhauled. Prices of spares parts would be payable as per the company price list ruling on the date of delivery + applicable VAT at the time of billing. The prices of spares parts will be limited to a maximum of Rs. **2390508.00** during the total AMC period of 5 years. Service charge + applicable rate of Service Tax will be payable as per the above schedule per annum.

- g. Major Breakdown :
- i. Replacement of heads.
 - ii. Replacement of connecting rod, crank, shaft etc.
 - iii. Rewinding of alternator.
 - iv. Replacement of magnetic contactor.

For above, the cost of spares will be provided by the CMPDI as per the current price list of the Manufacturer / Authorized Sales Service Centre and service charged covers under AMC.

- h. After each major overhauling (assembly/sub assembly) you will have to provide Warranty for 1 year.
- i. Working hour.
- a. Regular maintenance work will be permitted from 9.30 am to 5.30 pm.
 - b. Breakdown maintenance will be done any time.

Service & Repair :

Any repair work, major or minor has to be done at CMPDI sub-station itself as far as possible. All the spares should be fitted in the presence of an authorized representative of HOD(TE&CM), CMPDI(HQ), Ranchi at CMPDI.

You should ensure implementation of CMPF/EPF and miscellaneous provisions act 1948 and allied scheme framed thereunder in respect of workers deployed by you and will have to recover statutory dues and deposit the same along with employer's contribution (contractor's share) to the respective CMPF/EPF office and submit statutory returns under intimation to principal employer

You are requested to submit a non-judicial stamp paper of denomination amounting to Rs.100.00 (Rupees one hundred only) for execution of the agreement for the work.

Shri Y.K. Singh, Chief Manager (E&M) / TE & CM, will be the Engineer-in-charge for the subject work. This work order will form a part of the agreement.

Yours faithfully,

(P. B. Prasad)
Head of Department (TE & CM)

Copy to :

1. GM(F), CMPDI, Ranchi. : For kind information.
2. GM(F)-I, CMPDI, Ranchi. : This has reference to BC/FC no. R/232/26/4505 Yr. 2016-17 dt. 23.11.2016 for Rs. 2.50 lakhs.
2. CM (E&M) / TE & CM, CMPDI, Ranchi



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