

Part-II

Schedule of Rates (SOR):-

for

Operation & Maintenance Works of Entire
Construction Power Supply System
For BCPL

BCPL

Schedule of Rate (SOR): for Operation & Maintenance Works towards entire Construction Power Supply (CPS) System & Maintenance of Air Conditioner at BCPL, Lepetkata Site & at BCPL Township, Barbaruah, Dibrugarh Annexure I

Sl. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.0	Operation and Maintenance charges for operation & maintenance of entire Construction Power Supply system equipments at BCPL, Lepetkata, Dibrugarh, Assam, including all plant buildings/non-plant buildings, construction sub-stations (CSS-01 to CSS-07, main receiving station & SS#14), battery bank, battery charger, DC control panel, Ring main units, RTCC, all power and distribution transformers, all HV/MV/LV switchgears, associated cabling, capacitor banks, 4/2/1 pole structures with incoming and outgoing circuits, 6.6 KV feeder pillars, 6.6 KV overhead lines, 6.6 KV and MV/LV cabling system, indoor and outdoor area lighting System including street lighting, high mast lighting with all accessories and flood lighting poles, earthing system, maintaining minimum power factor above 0.90 lagging at all construction sus-stations, deployment of required manpower [minimum deployment for operation and maintenance of electrical system on each shift basis for 24 hours shall include one supervisor and one technician for Air Conditioner (in general shift), 3 electricians with 3 helpers in 3 shifts, adequate numbers of semi/unskilled workers etc. as required], tools and tackles including personal protective equipments for the manpower depolyed at site, testing equipments including supply of all consumables, all transportation, all procurement efforts and all labour etc, for carrying out routine preventive and breakdown maintenance of all equipment and system network as per sound engineering, operating and maintenance practices and directions of engineer in charge, (contractor shall note that other than above specified minimum deployment, contractor shall deploy one Project Manager having minimum qualification diploma in electrical engineering with minimum 5 years of experiance for overall co-ordination of the O&M contract and for interaction with client):	LS Per Month	24		
2.0	Operation charges per running hour of DG set of 500 KVA rating including Supply of Diesel (including Supply, loading/ unloading, transportation, refilling of diesel in day tank of DG Set.), periodical cleaning of Day Tank, Radiator etc.	Running Hour	2500		
3.0	Operation charges per running hour of DG set of 250 KVA rating including Supply of Diesel (including Supply, loading/ unloading, transportation, refilling of diesel in day tank of DG Set.), periodical cleaning of Day Tank, Radiator etc.	Running Hour	8000		
4.0	Only Supply of Diesel for 75 DG	Litre	12000		
5.0	Supply of Lamps for following Lighting Fixtures				

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Sl. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
5.1	IND-1	Nos	50.00		
5.2	IND-3	Nos	15.00		
5.3	IND-4	Nos	150.00		
5.4	SFD-6	Nos	200.00		
5.5	FD9	Nos	50.00		
5.6	LB3	Nos	50.00		
5.7	HB4	Nos	10.00		
5.8	CM-4	Nos	5.00		
5.9	ST-1	Nos	20.00		
5.10	ST-3	Nos	10.00		
5.11	PT-3	Nos	150.00		
5.12	FD-6	Nos	5.00		
5.13	FD-7	Nos	20.00		
5.14	CM-2	Nos	50.00		
5.15	ST-8	Nos	100.00		
5.16	IND-2	Nos	25.00		
5.17	SFD-6	Nos	100.00		
5.18	RSD-1	Nos	4.00		
5.19	RSD-6	Nos	50.00		
5.20	ST-10	Nos	30.00		
5.21	HB-3	Nos	30.00		
5.22	HB-4	Nos	200.00		
5.23	HB-1	Nos	15.00		
5.24	HB-2	Nos	100.00		
5.25	CFL-3	Nos	70.00		
5.26	CFL-4	Nos	70.00		
6.0	Supply of Ignitor for the following				
6.1	FD-9	Nos	40.00		
6.2	LB-3	Nos	40.00		
6.3	HB-4	Nos	20.00		
6.4	FD-6	Nos	50.00		
6.5	FD-7	Nos	30.00		
6.6	HB-3	Nos	60.00		
6.7	HB-4	Nos	70.00		
6.8	HB-1	Nos	20.00		
6.9	HB-2	Nos	20.00		
7.0	Supply of Capacitor for the following				
7.1	IND-1	Nos	40.00		
7.2	IND-3	Nos	2.00		
7.3	IND-4	Nos	15.00		

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Sl. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
7.4	SFD-6	Nos	15.00		
7.5	FD-9	Nos	30.00		
7.6	LB-3	Nos	10.00		
7.7	HB-4	Nos	1.00		
7.8	CM-4	Nos	1.00		
7.9	ST-1	Nos	2.00		
7.10	ST-3	Nos	1.00		
7.11	PT-3	Nos	15.00		
7.12	FD-6	Nos	20.00		
7.13	FD-7	Nos	20.00		
7.14	CM-2	Nos	35.00		
7.15	ST-8	Nos	15.00		
7.16	IND-2	Nos	10.00		
7.17	SFD-6	Nos	10.00		
7.18	RSD-1	Nos	20.00		
7.19	RSD-6	Nos	20.00		
7.20	ST-10	Nos	40.00		
7.21	HB-3	Nos	70.00		
7.22	HB-4	Nos	35.00		
7.23	HB-1	Nos	20.00		
7.24	HB-2	Nos	30.00		
8.0	Supply of Choke for the Following				
8.1	IND-1	Nos	60.00		
8.2	IND-3	Nos	10.00		
8.3	IND-4	Nos	25.00		
8.4	SFD-6	Nos	40.00		
8.5	FD-9	Nos	15.00		
8.6	LB-3	Nos	30.00		
8.7	HB-4	Nos	1.00		
8.8	CM-4	Nos	1.00		
8.9	ST-1	Nos	2.00		
8.10	ST-3	Nos	1.00		
8.11	PT-3	Nos	15.00		
8.12	FD-6	Nos	1.00		
8.13	FD-7	Nos	15.00		
8.14	CM-2	Nos	50.00		
8.15	ST-8	Nos	10.00		
8.16	IND-2	Nos	10.00		
8.17	SFD-6	Nos	15.00		
8.18	RSD-1	Nos	5.00		

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Sl. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
8.19	RSD-6	Nos	20.00		
8.20	ST-10	Nos	20.00		
8.21	HB-3	Nos	40.00		
8.22	HB-4	Nos	25.00		
8.23	HB-1	Nos	5.00		
8.24	HB-2	Nos	15.00		
9.0	Supply of MCB & ELCB of following Ratings:				
9.1	DP MCB, 25A, Make:Standard or equivalent.	Nos	30		
9.2	SP MCB , 20A, Make: Standard or Equivalent	Nos	30		
9.3	4 P, 63A ELCB with 30mA sensitivity, Make: Standard or Equivalent.	Nos	20		
10.0	Laying and termination of 3/ 3.5 /4 Core AYFY/CYFY Cables (excluding supply of cable) of following sizes :-				
10.1	OD ≤ 20 mm	Mtr.	1000		
10.2	20 < OD ≤ 40 mm	Mtr.	1000		
10.3	40 < OD ≤ 80 mm	Mtr.	1000		
10.4	□0 < OD	Mtr.	500		
11.0	Excavation & backfilling for making buried cable trenches of size upto 500X500 mm, including supply and laying of fine river sand & second class bricks for under ground cable laying as per relevant BIS code and instruction of Engineer-in-charge.	Mtr.	1000		
12.0	Supply of End Termination Kit of following types:				
12.1	6.6KV, 300 sqmm (indoor) type,	Nos	10		
12.2	6.6KV, 300 sqmm (outdoor) type	Nos	15		
12.3	33KV, 300 sqmm (indoor) type	Nos	2		
12.4	33KV, 300 sqmm (outdoor) type	Nos	2		
13.0	Supply of cables of following sizes:				
13.1	3C X 1.5 sq mm, PVC insulated multi strand Copper wire, Make: Havells, Finolex or equivalent	Mtr	1000		
13.2	3C X 2.5 sq mm, PVC insulated multi strand Copper Wire, Make: Havells, Finolex or equivalent	Mtr	1000		
13.3	3.5 C X35 sq,mm,PVC insulated,armoured Aluminium cable,1.1 KV ,Make Havell/Nicco/Polycab/Universal or eequivalent	Mtr	500		
13.4	3.5 C X 50 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV, Make: Havell/Nicco/Polycab/Universal or equivalent.	Mtr	500		
13.5	3C X 6 sq mm, PVC insulated muti strand copper wire, Make: Havells, Finolex or equivalent	Mtr	200		

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Sl. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
13.6	3C X 10 sq mm, PVC insulated multi strand copper wire, Make: Havells, Finolex or equivalent	Mtr	200		
14.0	Supply of Straight through cable jointing kits with all accessories for following sizes of cable.				
14.1	for 3.5 C X 35 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	20		
14.2	for 3.5 C X 50 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	20		
14.3	for 3.5 C X 70 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	10		
14.4	for 3.5 C X 185 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	10		
14.5	for 3.5 C X 240 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	10		
14.6	for 3.5 C X 300 sq mm, 1.1 KV, PVC insulated, armoured Aluminium cable	No.	30		
14.7	For 3 C X 300 sq mm, 6.6 KV, XLPE insulated, armoured Aluminium cable	No.	20		
15.0	Supply of following Switches ,Sockets and other Electrical wiring materials				
15.1	5/15 A switch, Make: Anchor or equivalent.	No.	50		
15.2	5/15 A Socket, Make: Anchor or equivalent.	No.	50		
15.3	5/15 A modular switch, Make: Anchor or equivalent	No.	50		
15.4	5/15 A modular Socket, Make:Anchor or equivalent.	No.	40		
15.5	Modular Plate, Make:Anchor or equivalent.	No.	40		
15.6	Electronic Regulator for fan, Make:Anchor or equivalent.	No.	50		
15.7	1" casing capping	Mtr	600		
15.8	Switch board(7" x4")Modular/EquivalentPVC Board	No.	40		
15.9	Switch board(8" x6")Modular/EquivalentPVC Board	No.	20		
15.10	20 A Industrial socket, 3 pin type	No.	20		
15.11	Spike Buster/Power strip, with 6 o/g sockets of 6 Amp, Make : Anchor or equivalent.	No.	10		
15.12	GI screw	Pkt	100		
15.13	PVC Wall Plug (Gutka)	Pkt	100		
15.14	GI Saddle	No.	200		
15.16	L,T,external, Internal,Coupler etc.	No	200		
16.0	Wiring with 3 X 1.5/ 3 X 2.5 sq. mm PVC insulated multi strand Copper wire excuding supply of wire & other accessories.	Metre	1000		
17.0	Supply & replacement of following items for ceiling fan upto 1400 mm sweep				
17.1	Bearing(ZZ),make: SKF/FAG	No.	30		

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Sl. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
17.2	Shaft	No.	3		
17.3	Blades(Set of 03nos)	No.	3		
17.4	Plastic holder with connector for capacitor	No.	20		
17.5	4 µfd capacitor ,230 volt for Exhaust fan	No.	10		
18.0	Rewinding of following 1 Phase AC motors including supply of all required material. The insulation class of the material used for rewinding shall be as per the original design of the motor .Transportation of burnt motor from site to Motor rewinding shop and delivering it back to site shall be in contractor's scope .				
18.1	Rewinding of burnt Ceiling fan motor	No.	30		
18.2	Rewinding of burnt exhaust fan motor	No.	15		
18.3	Rewinding of water supply pump motors upto 1.1 HP rating	No.	10		
19.0	Supply and filling of Engine Oil (15W40 conforming to the API CG-4 or API CH-4) for DG Set	Ltr	200		
20.0	Supply of MCCB of following rating:				
20.1	MCCB, 4 pole, 63 Amps, 20 KA, Make:Schneider or equivalent.	No.	40		
20.2	MCCB, 4 pole, 125 Amps, 25 KA, Make:Schneider or equivalent.	No.	20		
20.3	MCCB, 4 pole, 250 Amps, 50 KA, Make:Schneider or equivalent.	No.	10		
20.4	MCCB, 4 pole, 400 Amps, 50 KA, Make: Schneider or equivalent.	No.	10		
21.0	Supply of Transformer Oil	Ltr	1000		
22.0	Filtration & topping up of Transformer Oil.	Ltr	12500		
24.0	Preventive Maintenance, Gas Charging & Replacement of parts of Split type Air Conditioner (1.5 Ton & 2 Ton) installed at BCPL, Lepetkata Project Site and at BCPL Township at Borbaruah, Dibrugarh:				
24.1	Preventive maintenance of Split Type Air Conditioner (1.5/2 Ton) including cleaning of Indoor & Outdoor Unit. The job is to be carried out as per instruction of Engineer In-charge	No.	71		
24.2	Replacement of Compressor for 1.5 ton AC	No.	5		
	Replacement of Compressor for 2 ton AC	No.	1		
24.3	Replacement of Fan motor	No.	5		
24.4	Rewinding of Fan motor	No.	5		
24.5	Replacement of PCB	No.	5		
24.6	Replacement of running capacitor	No.	15		
24.7	Replacement of Oscillating motor	No.	10		
24.8	Gas Charging	Kg	20		

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Sl. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
24.9	Replacement of Copper Tube	Metre	10		
24.10	Replacement of Insulation Tape	Metre	30		
24.11	Replacement of Start Capacitor	No.	10		
24.12	Replacement of Air Blower.	No.	3		
24.13	Replacement of Fan Blade	No.	4		
24.14	Replacement of Start Relay	No.	5		
25.0	Supply of DO Fuse for Overhead HT Line of following ratings:				
25.1	DO Fuse for 6.6 KV, 50 A/80A/100A	No	100		
25.2	DO Fuse for 33 KV, 50 A/70A	No	20		
	Total:				

Amount in Words:

Note:-(1)

- 1) FOR ITEMS AT SL. No.2 & 3, CONTRACTOR HAS TO SUPPLY REQUIRED QUANTITY OF DIESEL TO RUN RESPECTIVE DG SETS. ESCALATION & DE-ESCALATION ON DIESEL PRICES SHALL BE PAID AS PER SCC PART-B.
- 2) FOR ITEM AT SL. NO. 2 OF SOR, DIESEL CONSUMPTION PER RUNNING HOUR SHALL BE CONSIDERED AS 65 LITRES PER HOUR. THE COST OF SUPPLY OF DIESEL MUST BE INCLUDED IN THE OPERATION CHARGES PER RUNNING HOUR OF DG SET.
- 3) FOR ITEM AT SL. NO. 3 OF SOR, DIESEL CONSUMPTION PER RUNNING HOUR SHALL BE CONSIDERED AS 41 LITRES PER HOUR. THE COST OF SUPPLY OF DIESEL MUST BE INCLUDED IN THE OPERATION CHARGES PER RUNNING HOUR OF DG SET.

Note:-(2)

The above rates should be inclusive of all taxes & duties except service tax which shall be paid extra at actual on submission of documentary evidence.

Name of Bidder:

Signature of the Bidder:

Seal of the Bidder: