

SCHEDULE OF RATES

Sub: Annual Maintenance Contract for Repair & Maintenance of Motors and Maintenance of Lighting System for Boundary /Watch Towers/PWH/Workshop etc at BCPL, Lepetkata for a period of One year

SOR No	Description of Services	Quantity	UOM	Unit Rate	Total amount
1	LIFTING AND SHIFTING OF MOTORS				
	Lifting and shifting of all types of LT motors (AC) or submersible pump motors (AC) of the following categories from its location to the workshop and back to its location within the premises of BCPL,Lepetkata. Only major equipments like crane / Hydra, Hand trolley / Battery trolley / Tractor-trailer / Truck as per requirement shall be provided by BCPL. All other arrangements required such as lifting tools, tackles, slings, D-Shackles, tripods, chain pulley blocks etc. and any other tools of such a nature shall be in the scope of contractor. For further details refer special conditions of contract and scope of work in the tender documents				
1.1	Motor up to & including 1.0 KW	10	EA		
1.2	Motors above 1.0 KW upto and including 7.5 KW	4	EA		
1.3	Motors above 7.5 KW upto and including 37 KW	4	EA		
1.4	Motors above 37 KW & including 55 KW	3	EA		
1.5	Motors above 55 KW & including 110 KW	3	EA		
1.6	Motors above 110 KW & including 200 KW	2	EA		
1.7	Submersible Motors Above upto 45 KW	2	EA		
2	LIFTING AND SHIFTING OF HT MOTORS				
	Lifting and shifting of all types HT Motors above 160 KW upto & including 3250 KW, from its location to the workshop and back to its location within the premises of BCPL,Lepetkata. Only major equipments like crane / hydra, Hand trolley / Battery trolley / Tractor-trailer /Truck as per requirement shall be provided by BCPL. All other arrangements required such as lifting tools, tackles ,slings, D-Shackles, tripods, chain pulley blocks etc. and any other tool of such a nature shall be in the scope of contractor. For further details refer Special conditions of contract and scope of work in the tender documents.	2	EA		
3	OVERHAULING OF LT MOTORS				
	Over hauling of single and three phase LT motors of the following categories, the job includes dismantling of motor, cleaning and greasing of bearings, bearing replacement, cleaning of winding terminal block and boxes, varnishing and drying, replacement, of any damaged parts including repair or replacement of motor leads assembling the motor, testing and satisfactory load and no load trail run. The consumable items such as Grease, Gaskets and equipments of special in nature such as Hydraulic Pullers, non-sparking tools, bearing heater, electric oven, motor testing skid etc. shall be provided by BCPL,Lepetkata. Bearing shall be provided by BCPL.For further details refer special conditions of contract and scope of work in this tender documents.				
3.1	Motors below 1.0 KW	25	EA		
3.2	Motors above 1.0 KW upto & including 7.5KW	10	EA		
3.3	Motors above 7.5 KW upto & including 37KW	10	EA		
3.4	Motors above 37 KW upto & including 55KW	10	EA		

3.5	Motors above 55 KW upto & including 110KW	5	EA		
3.6	Motors above 110 KW upto & including 200KW	5	EA		
3.7	Dewatering & STP Motors upto & including 45KW	5	EA		
3.8	Over hauling of DC Motors upto and including 1.0 KW	5	EA		
3.9	Over hauling of DC Motors above 1.0 KW upto & 7.5 KW	5	EA		
4	OVERHAULING OF 6.6KW HT MOTORS (AC)				
	Over hauling of 6.6KV HT Motors (AC) of the following categories, the job includes dismantling of motor, cleaning and greasing of bearings, bearing replacement, cleaning of winding terminal block and boxes, varnishing and drying, replacement, of any damaged parts including repair or replacement of motor leads assembling the motor, testing and satisfactory load and no load trail run at site. The consumable items such as Grease, Gaskets and equipments of special in nature such as Hydraulic Pullers, non-sparking tools, bearing heater, electric oven, motor testing skid etc. shall be provided by BCPL, Lepetkata. Bearing shall be provided by BCPL. For further details refer special conditions of contract and scope of work in this tender documents				
4.1	Motors above 160 KW upto & including 300KW	4	EA		
4.2	Motors above 300 KW upto & including 585KW	2	EA		
4.3	Motors above 585 KW upto & including 900KW	2	EA		
4.4	Motors above 900 KW upto & including 1230KW	2	EA		
4.5	Motor above 1230 KW upto & including 3250KW	2	EA		
5	MAINTENANCE OF ALL TYPE OF LT & HT MOTORS				
	Maintenance of all type of LT / HT Motors of the following categories, the job includes checking and tightening of all electrical connection including neutral points if any. Earthing connection, coupling, foundation bolts, greasing of bearings if required using greasing gun, cleaning of motor body, cleaning of ducts / tubes / cooling fans, replacement of any defective part like bearing, termination and glanding, recording of all parameters, trial run etc. as required to keep motor in good running condition. For further details refer special conditions of contract and scope of work in this tender document (materials shall be provided by BCPL)				
5.1	LT Motors upto and including 1.0 KW	25	EA		
5.2	LT Motors above 1.0 KW upto & including 5.5KW	25	EA		
5.3	LT Motors above 5.5 KW upto & including 11KW	12	EA		
5.4	LT Motors above 11 KW upto & including 30KW	12	EA		
5.5	LT Motors above 30 KW upto & including 55KW	8	EA		
5.6	LT Motors above 55 KW upto & including 110KW	8	EA		
5.7	LT Motors above 110 KW upto including 200 KW	4	EA		
5.8	HT Motors above 160KW upto & including 300KW	1	EA		
5.9	HT Motors above 300KW upto & including 585KW	1	EA		
5.10	HT Motors above 585 KW upto & including 900 KW	1	EA		
5.11	HT Motors above 900KW upto & including 1230KW	1	EA		
5.12	HT Motor above 1230KW upto & including 3200KW	1	EA		
6	REWINDING OF LT MOTORS (AC)				
	Rewinding of LT Motors (AC) of following categories. All winding materials such as winding wires, insulation papers, insulation tapes, cotton tapes, varnish, sleeve, glass lead etc., shall be in the scope of the contractor. After rewinding motor shall be tested on load at BCPL work for its satisfactory performance and all such motors shall be warranted for a period of SIX MONTHS from the date of its re-installation				

6.1	Rewinding of three phase LT Motors (AC) upto & including 1.0 KW	5	EA		
6.2	Rewinding of three phase LT Motors (AC) above 1.0 KW upto & including 3.7KW	3	EA		
6.3	Rewinding of three phase LT Motors (AC) above 3.7 KW upto & including 7.5KW	3	EA		
6.4	Rewinding of three phase LT Motors (AC) above 7.5 KW upto & including 22KW	3	EA		
6.5	Rewinding of three phase LT Motors (AC) above 22 KW upto & including 55 KW	2	EA		
6.6	Rewinding of three phase LT Motors (AC) above 55 KW upto & including 110KW	2	EA		
6.7	Rewinding of three phase LT Motors (AC) above 110 KW upto & including 220KW	2	EA		
6.8	Rewinding of submersible pump motors upto and including 7.5 KW	2	EA		
6.9	Rewinding of submersible pump motors above 7.5 KW upto & including 22 KW	2	EA		
6.10	Rewinding of submersible pump motors above 22 KW upto & including 45KW	2	EA		
6.11	Rewinding of single phase motor for Ceiling fans upto 1400 mm sweep	25	EA		
6.12	Rewinding of single phase motor for Exhaust fans, wall mounted fans of all sizes	16	EA		
6.13	Rewinding of single phase motors for Air conditioners fan motors / desert cooler kit	20	EA		
6.14	Rewinding of solenoid coils, contractor coils of all ratings	5	EA		
6.15	Rewinding of Clutch / Brake coils of process motors, EOT, Cranes, workshop machines	5	EA		
6.16	Rewinding of single phase transformers upto & 10KVA (Single phase)	10	EA		
6.17	Rewinding of three phase transformers upto & including 10KVA (Three phase)	6	EA		
7.10	Supply of motor starting capacitor , rating: 2.5 mfd to 6 mfd, 415 Volt + 10%, Standards quality and make approved by EIC	15	EA		
8	REPAIRING WORKS INCLUDING SUPPLY OF MATERIALS				
8.1	Recasting of cover, cooling fan, TB Box, impeller with CI materials requirement for maintenance and over hauling job,	10	KG		
8.2	Supply & fixing of oil seal, mechanical seal of reputed makes for Dewatering /STP motors during maintenance and over hauling job	8	EA		
8.3	Supply and installation of cooling fan (type -cast iron / aluminum) for three phase LT Motors (AC) above 3.7 KW upto & including 7.5 KW, Standards quality and make approved by EIC	3	EA		
8.4	Supply and installation of cooling fan (type -PVC) for three phase LT Motors (AC) above 3.7 KW upto & including 7.5 KW, Standards quality and make approved by EIC	3	EA		
8.5	Supply and installation of cooling fan (type -cast iron / aluminum) for three phase LT Motors (AC) above 7.5 KW upto & including, 15 KW Standards quality and make approved by EIC	5	EA		
8.6	Supply and installation of cooling fan (type -PVC) for three phase LT Motors (AC) above 7.5 KW upto & including 15 KW, Standards quality and make approved by EIC	5	EA		

8.7	Supply and installation of cooling fan (type -cast) iron for three phase LT Motors (AC) above 15 KW upto & including 37 KW, Standards quality and make approved by EIC	5	EA		
8.8	Supply and installation of cooling fan (type -cast iron) for three phase LT Motors (AC) above 37 KW upto & including 110 KW, Standards quality and make approved by EIC	5	EA		
8.9	Supply and installation of cooling fan (type -cast iron) for three phase LT Motors (AC) above 110 KW upto & including 220 KW, Standards quality and make approved by EIC	5	EA		
9	Supply of skilled man power for meeting exigencies requirement for break down/ motor repairing & maintenance etc.	626	Hrs		
10	Supply of semi skilled man power for meeting exigencies requirement for break down/ motor repairing & maintenance etc.	626	Hrs		
11	Cutting of Scrap/used Bearings at Electrical workshop including all consumables and man powers which includes DA, oxygen and one group for executing the job as per instruction of EIC.	496	KG		
12	Supply of bearing , make:FAG/SKF or as recommended by EIC. The contractor shall maintain minimum stock as given below:-				
12.1	Supply of bearing size:NU221-C3	2	EA		
12.2	Supply of bearing size:6321-C3	2	EA		
12.3	Supply of bearing size:6316-C3	2	EA		
12.4	Supply of bearing size: 6206ZZ	2	EA		
12.5	Supply of bearing size:6205ZZ	2	EA		
12.6	Supply of bearing size:6308ZZ	2	EA		
12.7	Supply of bearing size:6308	2	EA		
12.8	Supply of bearing size:6208ZZ	2	EA		
12.9	Supply of bearing size:6306	2	EA		
12.10	Supply of bearing size:6310 C3	2	EA		
12.11	Supply of bearing size:6210C3	2	EA		
12.12	Supply of bearing size:6309ZZC3	2	EA		
12.13	Supply of bearing size:6209ZZ	2	EA		
12.14	Supply of bearing size:6309ZZ	2	EA		
12.15	Supply of bearing size:6204ZZ	2	EA		
12.16	Supply of bearing size:6204-2ZC3	2	EA		
12.17	Supply of bearing size:6310-2ZC3	2	EA		
12.18	Supply of bearing size:6310-2ZC4	2	EA		
12.19	Supply of bearing size:6314	2	EA		
12.20	Supply of bearing size:6209ZZC	2	EA		
12.21	Supply of bearing size:Sleeve 140 x 125	2	EA		
12.22	Supply of bearing size:6309	2	EA		
12.23	Supply of bearing size:NU236M6236C3	2	EA		
12.24	Supply of bearing size:NU236M6230C4	2	EA		
12.25	Supply of bearing size:6312-2RS	2	EA		
12.26	Supply of bearing size: 6315-C3	2	EA		
12.27	Supply of bearing size:6309-2ZC3	2	EA		
12.28	Supply of bearing size:6304ZZ BALL	2	EA		
12.29	Supply of bearing size:6317	2	EA		
12.30	Supply of bearing size:NU226	2	EA		
12.31	Supply of bearing size:6312C3	2	EA		
12.32	Supply of bearing size:6319	2	EA		
12.33	Supply of bearing size:6206ZZC3	2	EA		
12.34	Supply of bearing size:6205ZZC3	2	EA		

12.35	Supply of bearing size:6315C3	2	EA		
12.36	Supply of bearing size:6215C3	2	EA		
12.37	Supply of bearing size:6208ZZC3	2	EA		
12.38	Supply of bearing size:6205	3	EA		
12.39	Supply of bearing size:6204	2	EA		
12.40	Supply of bearing size:6313C3	2	EA		
12.41	Supply of bearing size:6213C3	2	EA		
12.42	Supply of bearing size:6304	3	EA		
12.43	Supply of bearing size:6212C3	2	EA		
12.44	Supply of bearing size:6003ZZ	2	EA		
12.45	Supply of bearing size:6309-2RS	2	EA		
12.46	Supply of bearing size:6207ZZ	2	EA		
12.47	Supply of bearing size:6208ZZ C3	2	EA		
12.48	Supply of bearing size:6205ZZ C3	2	EA		
12.49	Supply of bearing size:6206ZZC3	2	EA		
12.50	Supply of bearing size:6205-2Z/ C3	2	EA		
12.51	Supply of bearing size:6208-2Z/ C3	2	EA		
12.52	Supply of bearing size: 6206-2Z/ C3	2	EA		
12.53	Supply of bearing size:6202ZZ	2	EA		
12.54	Supply of bearing size: 6315-C4	2	EA		
12.55	Supply of bearing size:NU224M+6224C3	1	EA		
12.56	Supply of bearing size:BALL/6314-C4	1	EA		
12.57	Supply of bearing size:6314-C4	1	EA		
12.59	Supply of bearing size:Ball/6209 ZZ C3	1	EA		
12.60	Supply of bearing size:Ball 6316 C3	1	EA		
12.61	Supply of bearing size:6206	1	EA		
12.62	Supply of bearing size:6306C3	1	EA		
12.63	Supply of bearing size:6206C3	1	EA		
12.64	Supply of bearing size:NU219M, 6319C3	1	EA		
12.65	Supply of bearing size:NU216M	1	EA		
12.66	Supply of bearing size:6324C3(72g).	1	EA		
12.67	Supply of bearing size:6319C3	1	EA		
12.68	Supply of bearing size:6324C3(72g)	1	EA		
12.69	Supply of bearing size:6314C3(27g)	1	EA		
12.70	Supply of bearing size:6316MC3	1	EA		
12.71	Supply of bearing size:6316M	1	EA		
12.72	Supply of bearing size:C3VL0241	1	EA		
12.73	Supply of bearing size:6316 C3	1	EA		
12.74	Supply of bearing size:6310	1	EA		
12.76	Supply of bearing size:NU236M	1	EA		
12.77	Supply of bearing size:6313-2RS	1	EA		
12.78	Supply of bearing size: 6236C3,	1	EA		
12.79	Supply of bearing size:NU230M(Insul)	1	EA		
12.80	Supply of bearing size: 6318C3	1	EA		
12.81	Supply of bearing size: 6322 M C3	1	EA		
12.82	Supply of bearing size:NU215/ C3	1	EA		
12.83	Supply of bearing size:6212-2RS	1	EA		
12.84	Supply of bearing size:6313-ZZ	1	EA		
12.85	Supply of bearing size:NU226, 6226C3	1	EA		
12.87	Supply of bearing size: NU218M, 6218 C3,	1	EA		
12.88	Supply of bearing size:6312	1	EA		
12.89	Supply of bearing size: NU310 C3	1	EA		
12.90	Supply of bearing size:6306ZZ	1	EA		
12.91	Supply of bearing size:6205ZZ	1	EA		
12.92	Supply of bearing size:6209ZZ C3	1	EA		
12.93	Supply of bearing size:NU319 C3	1	EA		

12.94	Supply of bearing size:6322,C31	1	EA		
12.95	Supply of bearing size:Ball & 6316	1	EA		
12.96	Supply of bearing size:Ball& 6317	1	EA		
12.97	Supply of bearing size:6204ZZC3	1	EA		
12.98	Supply of bearing size:6213ZZ	1	EA		
12.99	Supply of bearing size:NU216M+6216C3	1	EA		
12.100	Supply of bearing size:NU215	1	EA		
12.101	Supply of bearing size:62132RS	1	EA		
13	R&M OF STREET / BOUNDARY/WORKSHOP/PRODUCT WARE HOUSE ETC.				
13.1	Lumpsum charges for carrying out electrical repair and maintenance of street light & boundary light fittings at height approx 9 to 12 Mtrs, watch towers at height approx 15 Mtrs,spread in approximately 10 Kms area in the plant and street light on the approach roads and at different office premises as per requirement . It includes all types of lights. Spares shall be supplied by BCPL. Contractor shall have to carry out above jobs at the same time at three different locations for street lighting, boundary lighting, watch towers,office premises etc. Each location shall require one skilled person i.e. total requirement is three skilled technicians in repairing of electrical works.Contractor has to keep all the lighting fittings in healthy condition. Spares shall be supplied by BCPL.	312	D		
13.2	Lumpsum charges for carrying out electrical repair and maintenance of street light & boundary light fittings at height approx 9 to 12 Mtrs, watch towers at height approx 15 Mtrs,spread in approximately 10 Kms area in the plant and street light on the approach roads and at different office premises as per requirement . It includes all types of lights. Spares shall be supplied by BCPL. Contractor shall have to carry out above jobs at the same time at three different locations for street lighting, boundary lighting, watch towers,office premises etc. Each location shall require one Semi-Skilled persons i.e. total requirement is three Semi-Skilled persons in repairing of electrical works.Contractor has to keep all the lighting fittings in healthy condition.	312	D		
14.1	SUPPLY OF SKILLED MANPOWER FOR EXTRA TIME	450	H		
14.2	SUPPLY OF SEMISKILLED MANPOWER FOR EXTRA TIME	450	H		
	SUPPLY AND INSTALLATION GI E/P	15	EA		
15.1	Supply of all required materials, consumables etc for hot dipped GI pipe earthing with 3.0 mtrs long G.I pipe class-B, 65 mm dia with cap and masonry earth pit ,enclosure earthing pit as per Indian electricity Rule-1965 and enclosed drawing, erection at deferent location in Plant Area or Location is decided by EIC, testing /commissioning of earth system as per Indian electricity Rule. Electrode test certificates are to be supplied along with bill.				
	EXCAVATION & BACKFILLING OF CABLE TRENCH IN NORMAL SURFACE	100	M		

16	Excavation and backfilling with poring water to make as an original surface of cable trench Size 750 x400 mm for laying of armoured cable in all types of soil along with foot path, plant prephrical or existing cable trench etc. The works also include the cost of bricks ,sand and red color polythin size as per trench wide for protection of cables works includes testing and commissioning of laid cables,connections, terminations etc or as per site requirements. all trenches should be excave very carefully without any damage of another buried cable in case of existing cable should be damaged by bendor the total repairing cost shall be paid by vendor				
17	EXCAVATION & BACKFILLING OF CABLE TRENCH IN RCC/ PCC/HARD SURFACE Excavation and backfilling with poring water to make as a original surface of cable trench Size 750 x400 mm for laying of armoured cable in all types of soil along with foot path, plant prephrical or existing cable trench etc. The works also include the cost of bricks ,sand and red color polythin size as per trench wide for protection of cables works includes testing and commissioning of laid cables,connections, terminations etc or as per site requirements. all trenches should be excave very carefully without any damage of another buried cables in case of existing cable should be damaged by Vendor the total repairing cost shall be recovered by vendor. The measearment shall be considered only RCC/PCC/Hard Valuem only, after that the balance soil considered as a normal surface	3	M3		
18.1	Laying of armourd cable upto and including 30mm dia in cable trench/ above ground or instruction of EIC	500	M		
18.2	Laying of armourd cable above 30mm upto & including 50mm dia in cable trench/ above ground or instruction of EIC	500	M		
18.3	Laying of armourd cable above 50 mm upto & including 100mm dia in cable trench/ above ground or instruction of EIC	500	M		
18.4	Laying of armourd cable above 100 mm upto & including 125mm dia in cable trench/ above ground or instruction of EIC	500	M		
19.1	Supply and making heat shrinkable straight joints of PVC insulated aluminum conductor armoured cable of 1.1KV grade cables upto and including 30mm dia sizes including supply of jointing kit and other accessories. Make of kit shall be raychem only.	3	EA		
19.2	Supply and making heat shrinkable straight joints of PVC insulated aluminum conductor armoured cable of 1.1KV grade cables above 30mm upto & including 50mm dia sizes including supply of jointing kit and other accessories. Make of kit shall be raychem only.	2	EA		
19.3	Supply and making heat shrinkable straight joints of PVC insulated aluminum conductor armoured cable of 1.1KV grade cables above 50 mm upto & including 100mm dia sizes including supply of jointing kit and other accessories. Make of kit shall be raychem only.	2	EA		
20.1	Supply and installation of earthins strip materials (45X5 mm size GI strip) the works includes but not limited to connection from poles, IDBs,Existing eating strip, repairing of broken earthing strip/ grid eathing ,JBs, Earthig Pits, Earting grid etc the works shall be carried out single phase / portable welding m/c or SS Nut bolts as per site requirement or instruction of EIC	25	M		

20.2	Supply and installation of earthing strip materials (25X3 mm size GI strip) the works includes but not limited to connection from poles, IDBs, Existing earthing strip, repairing of broken earthing strip/ grid earthing, JBs, Earthing Pits, Earthing grid etc the works shall be carried out single phase / portable welding m/c or SS Nut bolts as per site requirement or instruction of EIC	24	M		
21	To locate the cable fault in LT/HT cable of all sizes with the help of cable fault locator to be arranged by the contractor. work shall be done as per the direction of Engineer-in-charge.	5	EA		
SERVICE TAX(%)-					

1 Quoted rates should be as per Scope of Work.

Bidders are required to quote the rates strictly as per the above SOR and not to use any other format.

2 Rates should be quoted including all taxes & duties except Service tax. Service tax & education cess (if any) shall be paid extra at actual

3 Quantities shown in the SOR are tentative which may increase or decrease

Bidders are advised not to mention rebate/discount separately, either in the SOR format or anywhere else in the offer. In case bidder(s) intend to offer any rebate / discount, they should include the same in the item rate(s) itself under the "SCHEDULE OF

4 RATES (SOR)" and indicate the discounted unit rate(s) only.

In case, it is observed that any of the bidder(s) has/have mentioned discount/rebate separately, the same shall not be considered for evaluation. However, in the event of the bidder emerging as the lowest bidder, the discount/ rebate offered by the bidder shall

5 be considered for award of work and the same will be conclusive and binding on the bidder.

6 Service tax as quoted will be added for evaluation (Please refer Clause No 5 of RFQ)

