

## ELECTRICAL AND C&amp;I JOBS IN COAL HANDLING PLANT AT CHP-2

Sl. No.	Item Description	UOM	1st Year Cost		
			Qty	Unit Rate (Rs)	Total Amt. (Rs.)
<b>1.00</b>	<b>3.3 KV HT Motor</b>				
1.01	Complete overhauling of motor (Reconditioning of motor, DE/NDE bearing accs. Replacement/servicing)	No	11		
1.02	Removal & Shifting of motor from foundation to shed	No	11		
1.03	Shifting of motor from shed & fixing on foundation	No	11		
1.04	Quarterly Shutdown maintenance works on motor	No	92		
1.05	Quarterly Shutdown maintenance works on feeder	No	92		
1.06	Monthly Motor external cleaning	No	275		
1.07	Half yearly Greasing of DE & NDE bearing of motor (Completely Drain old grease)	No	46		
<b>2.00</b>	<b>415 Volt, 90 KW &amp; above motor</b>				
2.01	Complete overhauling of motor (Reconditioning of motor, DE/NDE bearing accs. Replacement/servicing)	No	14		
2.02	Removal & Shifting of motor from foundation to shed	No	14		
2.03	Shifting of motor from shed & fixing on foundation	No	14		
2.04	Quarterly Shutdown maintenance works on motor	No	65		
2.05	Quarterly Shutdown maintenance works on feeder	No	65		
2.06	Monthly Motor external cleaning	No	193		
2.07	Half yearly Greasing of DE & NDE bearing of motor (Completely Drain old grease)	No	33		
<b>3.00</b>	<b>415 Volt, 45 kw &amp; above but less than 90kw motor</b>				
3.01	Complete overhauling of motor (Reconditioning of motor, DE/NDE bearing accs. Replacement/servicing)	No	19		
3.02	Removal & Shifting of motor from foundation to shed	No	19		
3.03	Shifting of motor from shed & fixing on foundation	No	19		
3.04	Quarterly Shutdown maintenance works on motor	No	28		
3.05	Quarterly Shutdown maintenance works on feeder	No	28		
3.06	Monthly Motor external cleaning	No	83		
3.07	Half yearly Greasing of DE & NDE bearing of motor (Completely Drain old grease)	No	14		
<b>4.00</b>	<b>415 Volt, 20 kw &amp; above but less than 45 kw motor</b>				
4.01	Complete overhauling of motor (Reconditioning of motor, DE/NDE bearing accs. Replacement/servicing)	No	28		
4.02	Removal & Shifting of motor from foundation to shed	No	28		
4.03	Shifting of motor from shed & fixing on foundation	No	28		
4.04	Quarterly Shutdown maintenance works on motor	No	74		
4.05	Quarterly Shutdown maintenance works on feeder	No	74		
4.06	Monthly Motor external cleaning	No	220		
4.07	Half yearly Greasing of DE & NDE bearing of motor (Completely Drain old grease)	No	37		
<b>5.00</b>	<b>415 Volt, 5 kw &amp; above but less than 20 kw motor</b>				
5.01	Complete overhauling of motor (Reconditioning of motor, DE/NDE bearing accs. Replacement/servicing)	No	28		
5.02	Removal & Shifting of motor from foundation to shed	No	28		
5.03	Shifting of motor from shed & fixing on foundation	No	28		
5.04	Quarterly Shutdown maintenance works on motor	No	138		
5.05	Quarterly Shutdown maintenance works on feeder	No	138		
5.06	Monthly Motor external cleaning	No	413		
<b>6.00</b>	<b>415 Volt, Below 5 KW motor</b>				
6.01	Complete overhauling of motor (Reconditioning of motor, DE/NDE bearing accs. Replacement/servicing)	No	37		
6.02	Removal & Shifting of motor from foundation to shed	No	37		
6.03	Shifting of motor from shed & fixing on foundation	No	37		
6.04	Quarterly Shutdown maintenance works on motor	No	550		
6.05	Quarterly Shutdown maintenance works on feeder	No	550		
6.06	Monthly Motor external cleaning	No	1649		

Sl. No.	Item Description	UOM	1st Year Cost		
			Qty	Unit Rate (Rs)	Total Amt. (Rs.)
<b>7.00</b>	<b>Miscellaneous Jobs</b>				
7.01	Misc.Fabrication works	kg	1832		
7.02	Repairing of thruster brake	No	37		
7.03	Replacement of thruster brake	No	10		
7.04	Assistance in Belt Weigher Servicing & Calibration	No	46		
7.05	Quarterly PM of belt safety switches (ZSS,PCS,BSS,etc)	No	1649		
<b>9.00</b>	<b>Preventive maintenance of local electrical panel</b>				
9.01	Installation/replacement of welding receptacle	No	46		
9.02	Half yearly PM of welding receptacle	No	229		
9.03	Monthly PM of Scoop panel	No	275		
9.04	Quarterly PM of IN LINE MAGNETIC SEPARATOR (ILMS) panel	No	59		
9.05	Quarterly PM of SUSPENDED MAGNET (SM) panel	No	30		
9.06	Monthly PM of PADDLE FEEDER (PF) panel	No	220		
9.07	Monthly PM of TRAVELLING TRIPPER (TTR) panel	No	367		
9.08	Quarterly PM of highmast PANEL	No	37		
9.09	Quarterly PM of LOCAL CONTROL SYSTEM BOX (LCS)	No	275		
9.10	Quarterly PM of POWER DISTRIBUTION BOARD (PDB)	No	184		
9.11	Quarterly PM of VENTILATION DISTRIBUTION BOARD (VDB/VS)	No	37		
9.12	Monthly Drag chain cleaning	No	46		
9.13	Monthly LDB/LP panel cleaning	No	916		
9.14	Half yearly PM of hoist	No	92		
9.15	Repairing/Commissioning of Hoist	No	19		
9.16	Quarterly PM of METAL DETECTOR(MD) PANEL	No	15		
9.17	Quarterly PM of Belt weigher panel	No	19		
9.18	Quarterly PM of PLC panel	No	184		
9.19	Quarterly PM of Belt watch panel	No	11		
9.20	Quarterly PM of Field control JB panel	No	550		
9.21	Monthly PM of elevator system	No	22		
9.22	Monthly External cleaning of HT/LT board	No	66		
9.23	Quarterly PM of coal sampling unit panel+LPB	No	8		
9.24	Polythene/tarpolin covering of panels/motors/JB	No	1832		
9.25	Monthly Cleaning of all batteries of battery bank	No	46		
<b>10.00</b>	<b>Preventive maintenance of Modules/breakers of MCC</b>				
10.01	Annual overhauling of HT Breaker	No	55		
10.02	Annual overhauling of LT Breaker	No	37		
10.03	Annual overhauling of LT Module	No	413		
<b>11.00</b>	<b>Preventive maintenance of LT Transformers (3.3 KV/415 V)</b>	No	13		
<b>12.00</b>	<b>Preventive maintenance of HT Transformers (11 KV/3.3 KV)</b>	No	4		
<b>13.00</b>	<b>Testing of transformer</b>	No	17		
<b>14.00</b>	<b>Trouble shooting</b>				
14.01	Troubleshooting in scoop	EA	184		
14.02	Troubleshooting in elevator	EA	22		
14.03	Troubleshooting in paddle feeder	EA	92		
14.04	Troubleshooting in Travelling tripper	EA	46		
14.05	Troubleshooting in Stackler cum reclaimers	EA	92		
14.06	Troubleshooting in In-line magnetic separator (ILMS)	EA	11		
14.07	Troubleshooting in Power distribution board (PDB)	EA	11		
14.08	Troubleshooting in Suspended magnet (SM)	EA	6		
14.09	Troubleshooting in Hoists	EA	37		
14.10	Troubleshooting in HT BOARD control circuit	EA	92		
14.11	Troubleshooting in LT MCC control circuit	EA	92		
14.12	Troubleshooting in Power Transformer	EA	6		
14.13	Troubleshooting in Ventilation system	EA	11		
14.14	Troubleshooting in Compressors	EA	92		
14.15	Troubleshooting in Dragchain system for paddle feeder	EA	6		
14.16	Troubleshooting in Metal Detector	EA	6		

Sl. No.	Item Description	UOM	1st Year Cost		
			Qty	Unit Rate (Rs)	Total Amt. (Rs.)
14.17	Troubleshooting in Beltweigher	EA	46		
14.18	Troubleshooting in Beltwatch system	EA	92		
14.19	Troubleshooting in Vibration monitoring system	EA	11		
14.20	Troubleshooting in coal sampling unit	EA	11		
14.21	Troubleshooting in sump pump/slurry pump	EA	11		
14.22	Troubleshooting in (Dry fog dust separation)DFDS sytem	EA	46		
14.23	Troubleshooting in UPS	EA	11		
14.24	Adjustment of 3.3KV HT breaker rack in mechanism	EA	92		
14.25	Replacement of vacuum bottle in CGL make 3.3KV HT breaker.	EA	10		
14.26	Changing of 3.3KV Bus duct jumper	EA	19		
14.27	Trouble shooting in 3.3KV HT breakers	EA	37		
14.28	Trouble shooting in LT Air Circuit breakers	EA	46		
14.29	Trouble shooting in Stacker cum reclaimr PCRD sytem	EA	22		
14.30	Trouble shooting in Stacker cum reclaimr CCRD sytem	EA	22		
14.31	Trouble shooting in Battery/Battery charger system	EA	11		
14.32	Communication establishment between RIO panels and PLC/HMI	EA	184		
14.33	Quarterly PM of Battery bank: Terminal cleaning,measurement of specific gravity of each cell,voltage checking of each cell, Acid/DM water top up wherever required.	EA	15		
14.34	Quarterly Checking and adjustment of all type of C&I field switches	EA	2199		
14.35	Calibration of C&I instruments	EA	92		
14.36	Fault tracing of different C&I faults(conveyor,stacker cum reclaimr,track hopper,paddle feeder) using schnider make PLC and its logic.	EA	733		
14.37	Taking Schnieder make PLC back up monthly.(Stacker, Paddle feeder, Bunker and Main control room PLC)	EA	92		
14.38	Logic modification in PLC and its testing.	EA	110		
14.39	Establishment of communication between different field device with PLC through RIO panel. (ex-ABB VFD drive,rexroth power pack,energy meter,belt weigher,pressure switch,transducer, etc)	EA	92		
14.40	Oil top up in 11KV/3.3KV transformer	Ltr	1832		
14.41	Loop checking between 8MVA Trafo & HT Breaker	EA	6		
14.42	Replacement of VFD drive and refixing with complete setting.	EA	5		
14.43	Quarterly PM of VFD drive panels	EA	19		
14.44	Shifting of VFD from store to site	EA	5		
14.45	Shifting of VFD from site to store	EA	5		
14.46	Repairing/Fault checking of VFD	EA	10		
14.47	Quarterly PM of hydraulic pressure switch,pressure transducer,pressure gauge setting and calibration	EA	550		
14.48	Changing/repairing of LT breaker internal mechanism.	EA	14		
14.49	Changing/repairing of 3.3KV HT breaker internal parts	EA	14		
14.50	Quarterly Zero calibration of belt weigher	EA	19		
14.51	Transformer oil filtration	Ltr	9160		
14.52	Changing of 3.3KV CT/PT in panel with new one including its control circuit wiring	EA	6		
14.53	Replacement of numerical relay and digital energy meter with new one and its complete wiring	EA	6		
14.54	Yearly Testing of numerical protection relay	EA	92		
14.55	Yearly Testing of HT/LT Breaker (VCB/VC/ACB)	EA	92		
14.56	Yearly Dip-discharging test of battery bank	EA	7		
14.57	Replacement of PLC(schnieder) conroller with new one and establishmnet of its communication with new one	EA	6		
14.58	Replacement of IO/DO/AI modules(schnieder) with new one and its connection, communication with main PLC.	EA	11		
14.59	Oil replacement of Suspended magnet and top up.	Ltr	1832		
14.60	Ethernet/profibus cable termination with connector	EA	19		
14.61	Ethernet/profibus cable fault finding and replacement	EA	19		

**ANNEXURE - 6.2**

**ELECTRICAL AND C&I JOBS IN COAL HANDLING PLANT AT CHP-2**

Sl. No.	Item Description	UOM	1st Year Cost		
			Qty	Unit Rate (Rs)	Total Amt. (Rs.)
14.62	Revival of PLC and HMI if crashed. i.e installation of back up and establishment of PLC communication with new OS.	EA	6		
14.63	Encoder adjustment in stacker cum reclaimers and paddle feeder	EA	22		
14.64	Half yearly Earth pit value checking with earth tester and revival to required value using salt/charcoal	EA	55		
14.65	Trouble shooting by deploying skilled E&I manpower	man days	28		
14.66	Daily walkdown survey of Electrical equipments	EA	335		
14.67	Daily walkdown survey of C&I instruments	EA	335		
14.68	Daily energy meter reading checking	EA	335		
14.69	Weekly battery bank healthiness checking	EA	48		
<b>15.00</b>	<b>Cabling</b>				
15.01	<b>Laying of Cable including Survey &amp; transportation from store with loading and unloading</b>				
15.02	6.6 KV Gr. XLPE Insulated Al. Conductor Armoured Cable(1CX1000sq.mm./3CX400sq.mm/3CX300sq.mm/3CX240sq.mm)	100Mtr	5		
15.03	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 1000 sq. mm/3.5C x 400 sq. mm/3C x 300 sq. mm/1C x 630 sq. mm (Cu))	100Mtr	5		
15.04	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 240 sq. mm/3.5C x150 sq. mm/3C x 150sq. mm/1C x 240sq. Mm/ 2CX120sq.mm)	100Mtr	5		
15.05	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 120sq. mm/3.5C x70sq. mm/3C x 70sq. mm/3.5C x 35sq. Mm/ 3Cx35sq.mm/2Cx35sq.mm)	100Mtr	10		
15.06	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(4C x 16sq. mm/3C x16sq. mm/2C x 16sq. mm/4C x 4sq. Mm(Cu)/ 3Cx10sq.mm/3Cx6sq.mm/2Cx6sq.mm)	100Mtr	10		
15.07	650/1100 V gradw PVC insulated Cu. Conductor armored control cable(2C x 1.5 sq.mm/2C x 2.5 sq.mm/3C x 1.5 sq.mm/3C x 2.5 sq.mm/4C x 2.5 sq.mm/5C x 2.5 sq.mm/7C x 2.5 sq.mm)	100Mtr	10		
15.08	650/1100 V gradw PVC insulated Cu. Conductor armored control cable(9C x 2.5 sq.mm/10C x 2.5 sq.mm/12C x 2.5 sq.mm/14C x 2.5 sq.mm/16C x 2.5 sq.mm/19C x 2.5 sq.mm)	100Mtr	10		
15.09	650/1100 V gradw PVC insulated Cu. Conductor armored Inst. / tel. cable(27C x 1 sq.mm/19C x 1 sq.mm/16C x 1 sq.mm/14C x 1 sq.mm/10P x 0.8 sq.mm/7P x 0.8 sq.mm/6P x 0.8 sq.mm/12P x 0.8sq.mm)	100Mtr	10		
15.10	650/1100 V gradw PVC insulated Cu. Conductor armored Inst. / tel. cable(10C x 1sq.mm/9Cx1sq.mm/7C x 1sq.mm/4Cx1sq.mm/3C1sq.mm/2Cx1sq.mm/5C1sq.mm/4Px1sq.mm/2Px1sq.mm/1Px1 sq.mm/5Px0.8sq.mm/3Px0.8sq.mm/2Px0.8sq.mm/1Px0.8sq.mm/4Px0.5sq.mm/2Px0.5 sq.mm/1Px0.5sq.mm/4Px0.9sq.mm/2Px0.9sq.mm) 16P x 0.5 sq.mm/12P x 0.5 sq.mm/12P x 1 sq.mm/8P x 0.5 sq.mm/50P x 0.9 sq.mm/20P x 0.9 sq.mm/10P x 0.9 sq.mm)	100Mtr	28		
	<b>Cable Termination both ends including elastimould connector, if required(One Set = Two ends)</b>				
15.11	6.6 KV Gr. XLPE Insulated Al. Conductor Armoured Cable(1CX1000sq.mm./3CX400sq.mm/3CX300sq.mm/3CX240sq.mm)	set	2		
15.12	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 1000 sq. mm/3.5C x 400 sq. mm/3C x 300 sq. mm/1C x 630 sq. mm (Cu))	set	2		
15.13	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 240 sq. mm/3.5C x150 sq. mm/3C x 150sq. mm/1C x 240sq. Mm/ 2CX120sq.mm)	set	2		

## ELECTRICAL AND C&amp;I JOBS IN COAL HANDLING PLANT AT CHP-2

Sl. No.	Item Description	UOM	1st Year Cost		
			Qty	Unit Rate (Rs)	Total Amt. (Rs.)
15.14	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 120sq. mm/3.5C x70sq. mm/3C x 70sq. mm/3.5C x 35sq. Mm/ 3Cx35sq.mm/2Cx35sq.mm)	set	19		
15.15	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(4C x 16sq. mm/3C x16sq. mm/2C x 16sq. mm/4C x 4sq. Mm(Cu)/ 3Cx10sq.mm/3Cx6sq.mm/2Cx6sq.mm)	set	10		
15.16	650/1100 V gradw PVC insulated Cu. Conductor armoured control cable(2C x 1.5 sq.mm/2C x 2.5 sq.mm/3C x 1.5 sq.mm/3C x 2.5 sq.mm/4C x 2.5 sq.mm/5C x 2.5 sq.mm/7C x 2.5 sq.mm)	set	184		
15.17	650/1100 V gradw PVC insulated Cu. Conductor armoured control cable(9C x 2.5 sq.mm/10C x 2.5 sq.mm/12C x 2.5 sq.mm/14C x 2.5 sq.mm/16C x 2.5 sq.mm/19C x 2.5 sq.mm)	set	46		
15.18	650/1100 V gradw PVC insulated Cu. Conductor armoured Inst. / tel. cable(27C x 1 sq.mm/19C x 1 sq.mm/16C x 1 sq.mm/14C x 1 sq.mm/10P x 0.8 sq.mm/7P x 0.8 sq.mm/6P x 0.8 sq.mm/12P x 0.8sq.mm)	set	46		
15.19	650/1100 V gradw PVC insulated Cu. Conductor armoured Inst. / tel. cable(10C x 1sq.mm/9Cx1sq.mm/7C x 1sq.mm/4Cx1sq.mm/3C1sq.mm/2Cx1sq.mm/5C1sq.mm/4Px1sq.mm/2Px1sq.mm/1Px1 sq.mm/5Px0.8sq.mm/3Px0.8sq.mm/2Px0.8sq.mm/1PX0.8sq.mm/4Px0.5sq.mm/2Px0.5 sq.mm/1Px0.5sq.mm/4Px0.9sq.mm/2Px0.9sq.mm) 16P x 0.5 sq.mm/12P x 0.5 sq.mm/12P x 1 sq.mm/8P x 0.5 sq.mm/50P x 0.9 sq.mm/20P x 0.9 sq.mm/10P x 0.9 sq.mm)	set	275		
	<b>Cable jointing</b>				
15.20	6.6 KV Gr. XLPE Insulated Al. Conductor Armoured Cable(1CX1000sq.mm. /3CX400sq.mm/3CX300sq.mm/3CX240sq.mm)	No	4		
15.21	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 1000 sq. mm/3.5C x 400 sq. mm/3C x 300 sq. mm/1C x 630 sq. mm (Cu))	No	4		
15.22	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 240 sq. mm/3.5C x150 sq. mm/3C x 150sq. mm/1C x 240sq. Mm/ 2CX120sq.mm)	No	4		
15.23	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 120sq. mm/3.5C x70sq. mm/3C x 70sq. mm/3.5C x 35sq. Mm/ 3Cx35sq.mm/2Cx35sq.mm)	No	10		
15.24	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(4C x 16sq. mm/3C x16sq. mm/2C x 16sq. mm/4C x 4sq. Mm(Cu)/ 3Cx10sq.mm/3Cx6sq.mm/2Cx6sq.mm)	No	10		
15.25	650/1100 V gradw PVC insulated Cu. Conductor armoured control cable(2C x 1.5 sq.mm/2C x 2.5 sq.mm/3C x 1.5 sq.mm/3C x 2.5 sq.mm/4C x 2.5 sq.mm/5C x 2.5 sq.mm/7C x 2.5 sq.mm)	No	4		
15.26	650/1100 V gradw PVC insulated Cu. Conductor armoured control cable(9C x 2.5 sq.mm/10C x 2.5 sq.mm/12C x 2.5 sq.mm/14C x 2.5 sq.mm/16C x 2.5 sq.mm/19C x 2.5 sq.mm)	No	4		
15.27	650/1100 V gradw PVC insulated Cu. Conductor armoured Inst. / tel. cable(27C x 1 sq.mm/19C x 1 sq.mm/16C x 1 sq.mm/14C x 1 sq.mm/10P x 0.8 sq.mm/7P x 0.8 sq.mm/6P x 0.8 sq.mm/12P x 0.8sq.mm)	No	4		
15.28	650/1100 V gradw PVC insulated Cu. Conductor armoured Inst. / tel. cable(10C x 1sq.mm/9Cx1sq.mm/7C x 1sq.mm/4Cx1sq.mm/3C1sq.mm/2Cx1sq.mm/5C1sq.mm/4Px1sq.mm/2Px1sq.mm/1Px1 sq.mm/5Px0.8sq.mm/3Px0.8sq.mm/2Px0.8sq.mm/1PX0.8sq.mm/4Px0.5sq.mm/2Px0.5 sq.mm/1Px0.5sq.mm/4Px0.9sq.mm/2Px0.9sq.mm) 16P x 0.5 sq.mm/12P x 0.5 sq.mm/12P x 1 sq.mm/8P x 0.5 sq.mm/50P x 0.9 sq.mm/20P x 0.9 sq.mm/10P x 0.9 sq.mm)	No	4		

Sl. No.	Item Description	UOM	1st Year Cost		
			Qty	Unit Rate (Rs)	Total Amt. (Rs.)
	<b>CABLE Dismantling, rerolling, shifting, loading and unloading</b>				
15.29	6.6 KV Gr. XLPE Insulated Al. Conductor Armoured Cable(1CX1000sq.mm./3CX400sq.mm/3CX300sq.mm/3CX240sq.mm)	100Mtr	5		
15.30	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 1000 sq. mm/3.5C x 400 sq. mm/3C x 300 sq. mm/1C x 630 sq. mm (Cu))	100Mtr	5		
15.31	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 240 sq. mm/3.5C x 150 sq. mm/3C x 150sq. mm/1C x 240sq. Mm/ 2CX120sq.mm)	100Mtr	5		
15.32	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(1C x 120sq. mm/3.5C x 70sq. mm/3C x 70sq. mm/3.5C x 35sq. Mm/ 3Cx35sq.mm/2Cx35sq.mm)	100Mtr	10		
15.33	650/1100 Volt grade PVC insulated Al./Cu. Conductor armoured LT Power cable(4C x 16sq. mm/3C x 16sq. mm/2C x 16sq. mm/4C x 4sq. Mm(Cu)/ 3Cx10sq.mm/3Cx6sq.mm/2Cx6sq.mm)	100Mtr	10		
15.34	650/1100 V gradw PVC insulated Cu. Conductor armored control cable(2C x 1.5 sq.mm/2C x 2.5 sq.mm/3C x 1.5 sq.mm/3C x 2.5 sq.mm/4C x 2.5 sq.mm/5C x 2.5 sq.mm/7C x 2.5 sq.mm)	100Mtr	10		
15.35	650/1100 V gradw PVC insulated Cu. Conductor armored control cable(9C x 2.5 sq.mm/10C x 2.5 sq.mm/12C x 2.5 sq.mm/14C x 2.5 sq.mm/16C x 2.5 sq.mm/19C x 2.5 sq.mm)	100Mtr	10		
15.36	650/1100 V gradw PVC insulated Cu. Conductor armored Inst. / tel. cable(27C x 1 sq.mm/19C x 1 sq.mm/16C x 1 sq.mm/14C x 1 sq.mm/10P x 0.8 sq.mm/7P x 0.8 sq.mm/6P x 0.8 sq.mm/12P x 0.8sq.mm)	100Mtr	10		
15.37	650/1100 V gradw PVC insulated Cu. Conductor armored Inst. / tel. cable(10C x 1sq.mm/9Cx1sq.mm/7C x 1sq.mm/4Cx1sq.mm/3C1sq.mm/2Cx1sq.mm/5C1sq.mm/4Px1sq.mm/2Px1sq.mm/1Px1 sq.mm/5Px0.8sq.mm/3Px0.8sq.mm/2Px0.8sq.mm/1Px0.8sq.mm/4Px0.5sq.mm/2Px0.5 sq.mm/1Px0.5sq.mm/4Px0.9sq.mm/2Px0.9sq.mm) 16P x 0.5 sq.mm/12P x 0.5 sq.mm/12P x 1 sq.mm/8P x 0.5 sq.mm/50P x 0.9 sq.mm/20P x 0.9 sq.mm/10P x 0.9 sq.mm)	100Mtr	28		
	<b>Erection of Cable trays</b>				
15.38	600 mm ladder type/450 mm perforated type/300 mm perforated type cable tray.	100Mtr	1		
15.39	150 mm perforated type cable tray.	100Mtr	1		
	<b>Erection of Cable trays cover with its clamp fixing</b>				
15.40	600 mm ladder type/450 mm perforated type/300 mm wide cable tray cover	100Mtr	1		
15.41	150 mm wide cable tray cover	100Mtr	1		
	<b>Dressing of Cable</b>				
15.42	600mm/450mm wide cable trays	M	4580		
15.43	300 mm/150mm wide cable tray	M	4580		
	<b>Erection of Junction box</b>				
15.44	150 x 150 x 100mm,300 x 250 x 150mm,300 x 200 x 100 mm,450 x 250 x 100mm	No	19		
15.45	600 x 300 x 150mm,600 x 300 x 100mm,800 x 400 x 150 mm,800 x 550 x 150mm	No	19		
	<b>Miscellaneous jobs and Civil Jobs related to cabling</b>				
15.46	Fabrication and erection of MS structural steel including Hardware, consumables, welding etc. for support arrangement of cable tray etc. including transportation from store to site.	KG	458		
15.47	Excavation, soil covering, back filling, ramming for burying cable Direct on soil	cum	46		
15.48	Installation & laying of bricks	100Nos	19		

Sl. No.	Item Description	UOM	1st Year Cost		
			Qty	Unit Rate (Rs)	Total Amt. (Rs.)
<b>16.00</b>	<b>Lighting</b>				
16.01	Checking of electrical circuit & replacement/rectification of Well glass fitting & accessories	No	458		
16.02	Checking of electrical circuit & replacement/rectification of Tube Light fitting & accessories	No	92		
16.03	Checking of electrical circuit & replacement/rectification of Flood light	No	184		
16.04	Checking of electrical circuit & replacement/rectification of street light	No	46		
16.05	Lighting circuit fault rectification	No	220		
16.06	Quarterly PM of lighting system from a single LP	No	147		
16.07	Half yearly Illumination level checking of entire CHP area	No	4		
16.08	New lighting fixture installation	No	92		
16.09	Old lighting fixture removal and shifting	No	1832		
16.10	Laying and fixing of GI Conduit in surface by help of drilling hole and fitted with ceiling grip as directed by engineer in charge.	10mtr	19		
16.11	Making and fixing of Switch boards like 4 X 4", 4 X 6", 6 X 8", 8 X 10", 10 X 12"	No	28		
16.12	Replacement/repairing of ceiling/exhaust fans.	No	46		
16.13	Quarterly PM of ceiling/exhaust fans.	No	92		
16.14	Replacement and fixing of MCB	No	184		
<b>17.00</b>	<b>AC,Fridge,water cooler/purifier</b>				
17.01	Monthly PM of AC,Fridge,water cooler/purifier	No	275		
17.02	Troubleshooting in AC,Fridge,water cooler/purifier	No	92		
<b>TOTAL VALUE EXCLUDING GST</b>					

**NOTE FOR BIDDERS:**

Bidder shall quote only for 1st year. Annual Price escalation for 2nd year shall be 5% on 1st year price. Similarly, Annual Price escalation for 3rd year shall be 5% on 2nd year price.