

PART-A
SCHEDULE OF RATES(UN-PRICED BID)

BIDDER TO MENTION AS "QUOTED" IN UN-PRICED SOR

AMC for Electrical operation and maintenance activities for Area-1 comprising of upstream plants (GSU/ECU), downstream plants (LLDPE/HDPE/PP Units) and CPP						
SOR Item No.	Description of Item	Unit	QUANTITY	UNIT RATE IN FIG	UNIT RATE(IN WORDS)	AMOUNT
1	MANDAY CHARGES for providing MANPOWER for execution of miscellaneous Electrical Works at BCPL,LEPETKATA and GDU Duliajan and its associated facilities including tools/tackles,test and measuring instruments etc. as per specifications of the tender and directions of the EIC.					
1.1	ONE HIGHLY SKILLED MANPOWER (Diploma in Electrical Engg with atleast 3 years industrial experience) with tools and tackles as per specifications of the tender and directions of EIC.	MANDAY	4850			
1.2	ONE SKILLED MANPOWER (Electrician/Fitter/Rigger wth ITI) with tools and tackles as per specifications of the tender and directions of EIC	MANDAY	6414			
1.3	ONE SEMI- SKILLED MANPOWER (Wireman etc.) with tools and tackles, as per specifications of the tender and directions of EIC	MANDAY	6414			
1.4	ONE UN-SKILLED MANPOWER, as per specifications of the tender and directions of EIC	MANDAY	200			
2	MANDAY CHARGES for providing Qualified Welder alongwith Welding Machine and Welding Electrodes, PPE's etc. for execution of miscellaneous works at BCPL,LEPETKATA/GDU DULIAJAN and its associated facilities including tools/tackles etc. except consumables as per specficatons of the tender and directions of the EIC.	MANDAY	50			
3	Installation of Indoor/Outdoor type heat shrinkable end termination kit/straight through joint kits for 3 Core, 33KV/6.6KV, Al/Cu. Conductor XLPE Armoured Cable(UE Type), of sizes upto 300 sq.mm. excluding supply of kit but including all tools and tackles etc. as required for making of termination as per standard work practice and directions of the EIC.	Nos.	5			
4	Installation of Indoor/Outdoor type heat shrinkable end termination kit for 1 Core, 33KV, Cu. Conductor XLPE Armoured Cable(UE Type), of sizes upto 500 sq.mm. excluding supply of kit but including all tools and tackles etc. as required for making of termination as per standard work practice and directions of the EIC.	Nos.	5			
5	Installation of straight through Joint Kit for 1.1KV Grade , Al/Cu . Conductor PVC Insulated and Sheathed Armoured Cable of sizes upto 300 sq.mm. Single/3/3/5/Multi Core Cables, excluding supply of kit but including all tools and tackles etc. required for making of termination as per standard work practice and directions of the EIC.	Nos.	5			

6	Painting of Alphabetical letters and numbers on equipments, poles, panels on Yellow Base Colour and Black Colour of the Alphabets/Numbers including supply of the paint of required shade including supply of manpower, materials like Paint Brush, Stencil , tools and tackles etc. required for execution of the work, as per direction of the EIC.					
6.1	Including and upto Size 25 mm	Nos.	2000			
6.2	Including and upto Size 50 mm	Nos.	4000			
6.3	Including and upto Size 100 mm	Nos.	6000			
7	Painting of lighting poles and other electrical equipments with Berger / Shalimar / Asian enamel paint, in the shades as directed by the EIC including supply of all labour,material and consumables as per specifications of the tender and directions of EIC.					
7.1	Supply and application of one coat of light build zinc phosphate primer after making preparation of surface to be painted with the help of wire brush, emery or sand paper.	SQM	400			
7.2	Supply and application of two coat of first quality synthetic enamel paint / aluminum paint after making preparation of surface to be painted with the help of wire brush, emery or sand paper.	SQM	400			
7.3	Supply and application of one coat of first quality synthetic paint / al. paint after making preparation of surface to be painted with the help of wire brush, emery or sand paper.	SQM	400			
7.4	Supply and application of two coat of epoxy paint of approved make as per the direction of engineer in charge by spray painting machine including the cost of paint and labour to complete the job.	SQM	400			
8	Supply, installation and commissioning of following Single/Double door 3- phase lighting and power DBs(Legrand / C&S / Havells make only) surface mounted having one no. 4 pole 40/63 amp RCCB of 300mA/30mA as incoming including supply of RCCB and single pole MCBs as outgoing including the cost of MCB's, consumables ,materials as per specifications of the tender and directions of EIC.					
8.1	8 way with 10/16/20/32 amp single pole MCBs	Nos.	2			
8.2	12 way with 10/16/20/32 amp single pole MCBs	Nos.	2			
9	Supply & fixing of 25 mm PVC heavy gauge conduit (As per tender specifications and approved makes)on walls including supply of conduit, clamps, bends, unions,all other required hardwares and accessories, PVC junction boxes and saddles etc, as per the directions of the EIC.	Mtrs.	40			
10	Supply, Installation, testing and commissioning of 240V , 1 Phase, Wall Mounted/Pedestal Fan of minimum 400 mm Sweep including all materials, accessories as per specifications of the tender and directions of the EIC.	Nos.	4			
11	Supply and laying of FRLS PVC Insulated Copper Wires in safe area/buildings/substations in existing concealed or surface conduit.This includes removal of burnt/ damaged wire, supply and laying of new wires of same size and making connections in existing DB/Switch etc. of following sizes from lighting/power panel/distribution junction box onwards,excluding the supply of cables,junction boxes and cable glands but including cable termination and connections,including all tools.tackles and accesories etc. as per approved drawings,specifications of this tender and directions of engineer-in -charge.					
11.1	3/20,3/22,3/18 of FINOLEX/HAVELL's make	Mtrs.	80			
11.2	7/20, 7/22 of FINOLEX/HAVELL's make	Mtrs.	80			
12	Supply and fixing of casing caping flat conduit on walls/ wooden panels etc. The flat conduit shall be of 1"/1.5" width and shall be fixed using PVC rawal plugs and wooden screws of appropriates size. Material shall be duly approved by EIC and job shall be carried out as per specifications of the tender and directions of EIC.	Mtrs.	80			

13	Supply and laying of FRLS PVC insulated copper wire of Havells/Finolex make of following sizes in new/unused Flat PVC conduit/M.S conduit & casing capping, connections on both ends including its necessary terminations as per specifications of the tender and directions of the EIC.					
13.1	3/20, 3/22,3/18 of FINOLEX/HAVELL's make	Mtrs.	80			
13.2	7/20, 7/22 of FINOLEX/HAVELL's make	Mtrs.	80			
14	Disconnection, Dismantling and Lifting of existing submersible pumpset for borewell including all tools and tackles etc as per specifications of the tender and directions of the EIC .	Nos.	1			
15	Lowering, installation and connection of existing/new submersible pumpset for borewell including all tools and tackles etc as per specifications of the tender and directions of the EIC .(Supply of Pumpset is excluded).	Nos.	1			
16	Laying of cables of different voltage grades(1.1KV/6.6KV/33KV) and types of the following external overall diameters in ready tray/trenches/supported over concrete or MS structure/pull through GI/Hume pipes including supply, clamping and fabrication of clamps using GI Saddles/Saddle Bars, dressing/fixing of clamps/cleats/welding of saddles,supply and fixing of aluminium/lead strips number tags and tagging of cables,supply and applying of fireproofing paint to meet OISD requirement(for 1 m length near terminations),including transportation from store/yard to site at the place of installation,unpacking, un-rolling of cables,including all labours and materials,as per approved drawings,specification of this tender and direction of Engineer-In-Charge.In case of of water logging in cable trench, Contractor shall arrange for dewatering of the trench also.					
16.1	Cables with OD upto 20mm	Mtrs.	3000			
16.2	Cables with OD above 20 mm but upto 30mm	Mtrs.	2500			
16.3	Cables with OD above 30 mm but upto 40mm	Mtrs.	2000			
16.4	Cables with OD above 40 mm but upto 50mm	Mtrs.	1500			
16.5	Cables with OD above 50 mm but upto 60mm	Mtrs.	1000			
16.6	Cables with OD above 60 mm	Mtrs.	800			
17	Disconnection and reconnection of existing of PVC insulated power/control cables (Upto 1.1KV)and connection of leads including fixing of cable glands,fixing of PVC shrouds etc,including all labours and tools,as per standard practice,specification of this tender and direction of Engineer-In-Charge.					
17.1	Cables with OD upto 30mm	Nos.	20			
17.2	Cables with OD above 30 mm but upto 40mm	Nos.	20			
17.3	Cables with OD above 40 mm	Nos.	20			
18	Disconnection and re-connection of existing XLPE power cables(6.6KV to 33KV) including fixing of cable glands, fixing of PVC shrouds etc. for outdoor/indoor cable terminations,including all labours and tools,as per standard practice,specification of this tender and direction of Engineer-In-Charge.					
18.1	Cables with OD above 50 mm but upto 60mm	Nos.	20			
18.2	Cables with OD above 60 mm	Nos.	20			
19	Connection of new PVC insulated power/control cables (Upto 1.1KV) and connection of leads, excluding supply of cable glands, lugs etc. but including fixing of cable glands,fixing of PVC shrouds, crimping of lugs, stripping of cable sheath etc,including all labours and tools,as per standard practice,specification of this tender and direction of Engineer-In-Charge.					
19.1	Cables with OD upto 30mm	Nos.	8			
19.2	Cables with OD above 30 mm but upto 40mm	Nos.	8			
19.3	Cables with OD above 40 mm	Nos.	8			
20	Connection of new XLPE power cables(6.6KV to 33KV) including fixing of cable glands, fixing of PVC shrouds,crimping of lugs,earthing connections etc. for outdoor/indoor cable terminations excluding supply of lugs, glands etc, but including all labours and tools,as per standard practice,specification of this tender and direction of Engineer-In-Charge.					
20.1	Cables with OD above 50 mm but upto 60mm	Nos.	8			
20.2	Cables with OD above 60 mm	Nos.	8			

21	Supply , Fabrication and installation of MS Base Frames,MS Chequered Plates of dimension 50x50x6 mm and 6 mm thick, MS Support for Switchgear and brackets for misc. Electrical Equipment, Cable and Cable Tray Supports out of Rolled MS Section,Flats, Pipes, Plates etc, including shot blasting, welding, bolting,rivetting, supply of necessary anchor bolts and grouting etc, supply of paint and applying one coat of anti-rust primer and two finished coats of approved sythetic enamel paint, including breaking walls/floors etc, for structures as required including supply of all GI hardware material, all labour and materials etc. as per the standard specifications of the tender and directions of Engineer-In-Charge.	Kg	100			
22	Supply, installation and erection of canopies of miscellaneous outdoor equipments like motors, Welding receptacles, Local control stations, switchboards etc for rain/weather protection of 16 SWG (1.6mm) sheet steel including the cost of steel, hardware, painting and labour etc. as per specifications of the tender and directions of EIC.	Kg	100			
23	Supply, fabrication and installation of 22 SWG GI sheet covers for cable trays, including necessary hardwares, including all labour and materials as per specifications of the tender and directions of EIC.	SQM	400			
24	Salt Treatment of Earth pit with Charcoal and Salt and water sloution to achive a desirable resistance value (individual & with grid) including all labour and materials as per specifications of the tender and directions of EIC.Charcoal,Salt and other materials are in the scope of the contractor ,only earth tester shall be provided by BCPL.	Nos.	40			
25	Supply, installation and connection of following GI earth strip along the ready cable trenches or cable trays or fixing on walls or structures including welding at joints, providing anti-corrosive paint or bitumen and jute covering for welded portion, clamping and all necessary hardware for connecting etc., including all labour and tools, as per approved drawings, specifications of this tender and directions of Engineers- in- Charge.					
25.1	20 x 3 mm	Mtrs.	40			
25.2	50 x 6 mm	Mtrs.	40			
25.3	75 x 10 mm	Mtrs.	40			
26	Connecting individual equipment to the earth strip or earth plate with following sizes of G.I. wire rope including the supply of G.I. wire/ G.I. wire rope, lugs, conductors, connecting to the G.I. strip of earth plate and necessary hardware for connection, including all labour and tools, as per approved drawings, specifications of this tender and directions of Engineers-in- Charge.					
26.1	3/8" dia (10 mm) flexible rope.	Mtrs.	50			
26.2	5/8" dia (16 mm) flexible rope.	Mtrs.	50			
26.3	8 SWG GI wire	Mtrs.	50			
27	Supply and fixing of continuity jumpers across the pipe flanges made of tinned copper strip lugs crimped on both ends with copper flexibles/wire ropes of size 3/8"(10mm) dia and of following lengths and lug hole ID as per specifications of the tender and directions of EIC.					
27.1	12 mm lug hole(ID) & 150 mm rope length	Nos.	4			
27.2	16mm lug hole(ID) & 150 mm rope length	Nos.	4			
27.3	20 mm lug hole(ID) & 200 mm rope length	Nos.	4			
27.4	24 mm lug hole(ID) & 200 mm rope length	Nos.	4			
27.5	30mm lug hole(ID) & 300 mm rope length	Nos.	4			
27.6	42 mm lug hole(ID) & 400 mm rope length	Nos.	4			
27.7	48 mm lug hole(ID) & 400 mm rope length	Nos.	4			

28	Supply and laying of GI pipes "B" class of following sizes in required length fixed on steel,concrete or similar structure,above ground or laid in trenches, ready to be buried in concrete, including cutting, threading, bending and similar works, supply of clamps, small iron structures, spacers and installation of seats, plugs, bushings etc. small civil works, including all manpower,materials and tools as per approved drawings , specifications of the tender and directions of EIC.					
28.1	150mm NB	Mtrs.	30			
28.2	100mm NB	Mtrs.	30			
28.3	50 mm NB	Mtrs.	30			
29	Excavation and backfilling of trenches for cables and earth strip etc. in all types of soil except rock, for a maximum depth of 1.5M, shoring, shuttering and dewatering(if necessary) including consolidation and disposal of surplus earth up to a distance of 100 Metres, including all labour and tools, as per approved drawings, specifications of this tender and direction of Engineer-in-charge.(Excavated trench dimentions shall be measured).	CUM	200			
30	Supply and spreading of approved fine river sand/stone dust in cable trenches, including all labour and tools, specifications of this tender and direction of Engineer-in-charge.	CUM	100			
31	Supply and spreading of approved second class bricks of 75 mm thickness in cable trenches for cable protection including all labour and tools, as per approved drawings, specifications of this tender and directions of Engineers- in- Charge.	SQM	100			
32	Providing and laying plain cement concrete for all depths below and up to a plinth level in foundations including tamping, ramming, vibrating, curing, shuttering etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed, including supply of M-15 grade with 20 mm concrete and down size graded crushed stone aggregates, including all labour and tools, as per approved drawings,specifications of this tender and directions of Engineer-in-Charge.	CUM	70			
33	Identification of fault in 33 KV/6.6KV overhead line of BCPL LEPETKATA, and its associated facilities, including tools, tackles, ladders, logistics etc. and PPE's for completion of the work.					
33.1	33 KV Line of 7 Kms from BCPL Plant to CISF/BCPL Township.	Nos.			DELETED	
33.2	6.6KV Line of 2 Kms along BCPL Plant Boundary.	Nos.			DELETED	
33.3	33KV O/H Line of 3.0 kms from Ghoronia Tea Estate to Railway Siding(Naptha Loading Facility).	Nos.			DELETED	
33.4	33 KV Line of 7 Kms from BCPL Plant to RAW Water Intake Facility.	Nos.			DELETED	

34	Supply and Installation of 33 KV & 6.6KV Items Fuse/LA/Insulator/Clamp etc, including tools, tackles, winch machine, Conductor Section/Piece,ladders, logistics etc. and PPE's for completion of the work.					
34.1	Supply, installation and connection of Drop out fuse - 100A, 33KV/6.6KV	Nos.	DELETED			
34.2	Supply, installation and connection of Drop out fuse - 50A/63A./80A, 33KV/6.6KV	Nos.	DELETED			
34.3	Replacement and connection of spare/new Lightning Arrestors- 3 Phase, 33KV, 31.5kA on already existing Pole/Structure including shifting of spare/new LA from BCPL Store to site and dismantling of defective LA and shifting to designated area inside BCPL PREMISES.	Nos.	DELETED			
34.4	Supply, fixing and connection of 33KV Pin/Strain insulator.	Nos.	DELETED			
34.5	Supply & installation of 33KV/6.6KV P.G. Clamps complete.	Nos.	DELETED			
35	Identification and rectification of circuit faults, including replacement of defective lamp/choke etc. in plant/unit area in un-healthy/defective lighting & power circuits installed upto a height of 9 Mtr, excluding supply of required materials except insulation tape , but including all tools, tackles, ladders etc. and PPE's for completion of the work.(Wherever provided existing platforms/approach can be used).	Nos.	120			
36	Identification and rectification of circuit faults including replacement of defective lamp/choke etc. in plant/unit in unhealthy/defective lighting circuits installed upto a height of 10 Mtr- 30 mtr, excluding supply of required materials except insulation tape , but including all tools, tackles, ladders etc. and PPE's for completion of the work.(Wherever provided existing platforms/approach can be used).	Nos.	120			
37	Identification and rectification of circuit faults including replacement of defective lamp/choke etc. as required, in plant/unit area in unhealthy/defective lighting circuits installed upto a height of 31mtr and above, excluding supply of required materials except insulation tape , but including all tools, tackles, ladders etc. and PPE's for completion of the work.(Wherever provided existing platforms/approach can be used).	Nos.	100			
38	Replacement of Fused Lamp, Defective Choke/Ignitor/Fuse Base/Carrier/MCB etc. in each already installed and healthy circuits of Plant/Unit Area light fittings, excluding supply of required materials except insulation tape , but including all tools, tackles, ladders etc. and PPE's for completion of the work.					
38.1	Upto a Height of 9 Mtr.	Nos.	800			
38.2	Upto a Height of 10-30 Mtr.	Nos.	400.00			
38.3	Beyond and including a height of 31 mtr and above.	Nos.	160.00			
39	Identification and rectification of circuit faults in unhealthy High mast Light circuits of approx. 30-35 mtr height, including replacement of defective lamp/choke etc. but excluding supply of required materials except insulation tape,but including all tools ,tackles and ladders etc. for completion of the work.(Lowering and raising of High mast shall be done with already installed winch in the High mast structure).	Nos.	20			

40	Identification and rectification of circuit faults in unhealthy Street Light Pole of approx. 9-10 mtrs height, excluding supply of required materials except insulation tape, but including replacement of defective lamp/choke etc. and including all tools and tackles for completion of the work. (Shifting of Moveable Ladder Platform from designated area to work site shall be done by Contractor, however the ladder shall be provided by BCPL).	DELETED				
41	Identification and rectification of circuit faults, including replacement of defective lamp/choke etc. in Plant Building/Substation/Non-Plant Buildings/Control Rooms Lighting circuits etc. excluding supply of required materials except insulation tape, but including all tools, tackle, ladders etc. for completion of the work.	Nos.	600			
42	Filtration of Transformer Oil by stream line filter machine, for Transformers installed at BCPL, LEPETKATA/DULIAJAN/RAILWAY SIDING/RAW WATER INTAKE FACILITY including mobilising Filtration machine, Manpower, tools and tackles etc. as required for completion of the work in all respects as per specifications of the tender and directions of EIC.	Ltrs	5000			
43	Fault Finding of buried cable/cable laid in concrete trench using cable fault locator including excavation at location of fault, manpower, special tools, accessories and logistics at BCPL LEPETKATA/DULIAJAN/RAILWAY SIDING/RAW WATER INTAKE FACILITY as per specifications of the tender and directions of EIC. The work is to be carried out with close supervision and without damage to cable due to faulty equipment/machine/wrong operation and in a safe manner with proper safety gear/PPE's etc.					
43.1	For Power and Control Cables upto 1.1KV Grade	Nos.	3			
43.2	For Power Cables of 6.6KV and upto 33 KV Grade	Nos.	3			
44	Supply of 1.1KV Grade Heat Shrinkable Straight Through Jointing Kits for Al/Cu. Conductor Cable, PVC Insulated/Sheathed Armoured Cable of following sizes (Makes- 3M/RAYCHEM only).					
44.1	3C/3.5C, including 35 sq.mm. and upto 50 sq.mm. cable.	Nos.	5			
44.2	3C/3.5C, above 50 sq.mm. and upto 120 sq.mm. cable.	Nos.	5			
44.3	3C/3.5C, above 120 sq.mm. and upto 240 sq.mm. cable.	Nos.	5			
44.4	3Cx2.5 sq.mm. upto 6 sq.mm and 5Cx2.5 sq.mm.	Nos.	5			
44.5	3Cx10 sq.mm. and 4Cx16 sq.mm.	Nos.	5			
44.6	7Cx2.5sq.mm, 10Cx2.5 sq.mm, 12Cx2.5 sq.mm.	Nos.	5			
44.7	19Cx2.5sq.mm.	Nos.	5			
44.8	30Cx2.5sq.mm.	Nos.	5			
45	Supply of Heat Shrinkable Straight Through Jointing Kits, 6.6KV Grade (Un-earthed) for Al/Cu. Conductor Cable, XLPE Insulated/Sheathed Armoured Cable of following sizes (Makes- 3M/RAYCHEM only).					
45.1	3Cx 185sq.mm.	Nos.	5			
45.2	3Cx240sq.mm. and 3Cx300sq.mm.	Nos.	5			
46	Supply of End Termination Kit Heat Shrinkable (Indoor/Outdoor) 6.6KV/33KV Grade (Un-earthed), for Al/Cu. Conductor Cable, XLPE Insulated/Sheathed Armoured Cable of following sizes (Makes- 3M/RAYCHEM only).					
46.1	3Cx240sq.mm. and 3Cx300sq.mm, 6.6kV INDOOR Type	Nos.	5			
46.2	3Cx240sq.mm. and 3Cx300sq.mm, 6.6kV OUTDOOR Type	Nos.	5			
46.3	3Cx240sq.mm. and 3Cx300sq.mm, 33kV INDOOR Type	Nos.	5			

