

BILL OF QUANTITIES

Name of work: Electrification of Agglomerator Building & Roads

Tende Notice No:BAP:M&S:TE:EL:11:011 DT. 18.10.2011

SL. No	DESCRIPTION	QTY	UNIT	RATE in Rs	AMOUNT in Rs
1	Supply and Fixing of MCB distribution board with 01 No of 100A TPN MCB as incomer with 03 Nos of 63 A TPN MCB as outgoing with in suitable MS Box, with necessary bus bar and interconnections arrangements on the wall with necessary fixtures.	1	NO		
2	Supply and Fixing of MCB distribution board with 01 No of 32 A TPN MCB as incomer with 03 Nos of 32 A DP MCB as outgoing with in suitable MS Box, with necessary bus bar and interconnections arrangements on the wall with necessary fixtures.	3	NO		
	A) For AC-01 No				
	B) For control room - 01 No				
	C) For Road lights - 01 No				
3	Supply and Fixing of 20A DP MCB with in suitable MS Box, on the wall with necessary fixtures-(FOR AC)	3	NO		
4	Supply and Laying of 3½C X 35 sq.mm.Alu.conductor PVC insulated armored cable on wall / trench / racks/concealed with necessary fixtures etc (AGG panel to 100 A MCB) as per the BHEL Safety Rules and Special Instructions.	30	MTR		

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SL. No	DESCRIPTION	QTY	UNIT	RATE in Rs	AMOUNT in Rs
5	Supply and Making end termination with supply of suitable size of cable glands, lugs etc., using anti corrosive paste for single run 3 ½ C X 35 sq.mm alu.conductor PVCA cable.	2	NO		
6	Supply and Laying of 4C X 16 sq.mm.alu.conductor PVC insulated armoured cable on wall / trench / racks/concealed with necessary fixtures etc., as per the BHEL Safety Rules and Special Instructions.	36	MTR		
	A) 63 A MCB to 32 A MCB-03 Nos-(3m X 3Nos)				
	B) On poles-9 x 3=27 mtr				
7	Supply and Laying of 4C X 16 sq.mm.alu.conductor PVC insulated armoured cable under ground as per the BHEL Safety Rules and Special Instructions.	338	MTR		
	A) From Timer box To poles-338 mtr				
8	Supply and Making end termination with supply of suitable size of cable glands, lugs etc., using anti corrosive paste for single run 4C X 16 sq.mm alu.conductor PVCA cable.	22	NO		
	A) Control room-6 nos				
	B) on poles-16 nos				

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SL. No	DESCRIPTION	QTY	UNIT	RATE in Rs	AMOUNT in Rs
9	Supply and wiring / Concealed wiring with 4 sq.mm Copper conductor PVC insulated unsheathed cable, double runs on suitable rigid PVC FLAT conduit pipe/pvc pipe with continuous running of 2.5 sq mm Copper conductor PVC insulated unsheathed cable ,green color for earthing with necessary fixtures etc.,	75	MTR		
	A) From 32 A DP MCB to 20 A DP MCB for AC				
	B) From 32 A DP MCB to switch boxes				
	C) From 32 A DP MCB to Timer box				
10	Supply and Fixing of Timer Box on wall, make BCH - Size 500 X 700 X 300 mm -Single door Box, cat no: BIL - 50220. WITH	1	NO		
	A) 24 Hrs Digital Timer, INPUT VOLTAGE -230V, AC,1 NO + 1NC,Frontier make				
	B) 40 Amps, 415 V, NHD size-1,Coil V-230 V, 4 pole, BCH make contactor,				
	C) 32 A, 12way, open type terminal block				
	D) 20 A KIT CAT FUSE -03 nos				
	E) 10 A, 250 V, Bypass Toggle switch ,should be neatly fixed in the timer box and wired.				
	All the above items shall be supplied by the Contractor.				

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SL. No	DESCRIPTION	QTY	UNIT	RATE in Rs	AMOUNT in Rs
11	Supply and Erection of Steel Tubular 10 m Height street light pole, coil earthing, with MS base plate of size 6mm x 300mm x 300mm. Concrete size for pole erection - 500mm Width x 500mm Length x 2000mm Depth below ground level. Concrete coping size above the ground level - 400mm Height x 300mm Diameter. 1:3:3 concrete shall be used for basement and coping. 25mm blue metals shall be used for the concrete preparation. Two coats of Al. paint shall be painted on the pole after thorough cleaning..	8	NO		
	The Pole shall be Fabricated as per BHEL drawing no:ES:M&S:1,2 and as per IS 2713(Part-I to Part-III)-1980.				
	<u>The Thickness of the MS pipe used for the fabrication of the pole will be checked by BHEL by using D meter.</u>				
	A) Supply and Fixing of Weather proof MS box of size-200mm height x 240mm length x 150mm depth with 32A x 6way open type terminal block on each pole with necessary clamps. Two coats of Al. paint shall be painted on the MS box after thorough cleaning... The MS box shall be provided with locking arrangement.				
12	Supply and Fixing of 1 x 120 W, 230 V, INDUCTION Street light fitting with INDUCTION lamp, RAESP / Bajaj / GE / Philips make on the steel tubular pole with suitable Pipe Bracket (At least 1.2m length) on the top of the pole to fix the INDUCTION LAMP fitting. The pipe Bracket and the pole shall be thoroughly cleaned and painted with 2 coats of Aluminum paint. BHEL drawing attached for the Pipe Bracket.	8	NO		

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SL. No	DESCRIPTION	QTY	UNIT	RATE in Rs	AMOUNT in Rs
13	Supply and Laying of 2C x 2.5 sq.mm Copper conductor PVC insulated Armoured cable on Pole with necessary fixtures etc., as per the BHEL Safety Rules and Special Instructions.	80	MTR		
14	Supply and wiring / concealed wiring with 1.5 sq.mm Flex. Cu. Conductor PVC insulated unsheathed cable on suitable PVC FLAT conduit/pvc pipe with 01 No of 5 A Flush type switch (Anchor make l) on suitable MS box with necessary fixtures for Lamps and Cei. Fans. At least one run of 1.5 sq.mm Flex.Cu. Conductor PVC insulated unsheathed cable should be laid for two points.	22	POINTS		
	A) TL-10 Pnts (Control room-8 + Toilet-2)				
	B) Fan-8 Pnts (Control room)				
	C) 80W-4 Pnts (C. room - 2 + Toilet -1 + LPG room- 1)				
15	Supply and fixing of 5A, 5 pin flush type switched socket of Anchor make on suitable MS box with necessary fixtures etc on the wall.	6	NO		
16	Supply and Fixing of Orient -PSPO/Almonard-Popular/Havells-Velocity model,1200 mm sweep, single phase, AC ceiling fan with suitable MS down rod of length 1.8m and Electronic 5 steps regulator with necessary fixtures etc.	8	NO		
17	Supply and fixing of 15A, 6 pin flush type switched socket of Anchor make on suitable MS box with necessary fixtures etc on the wall.	6	NO		

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SL. No	DESCRIPTION	QTY	UNIT	RATE in Rs	AMOUNT in Rs
18	Supply and Fixing of 80 W INDUCTION lamp fitting with 80W INDUCTION lamp- RAESP / Bajaj / GE / Philips make with suitable pipe bracket with necessary clamps fixtures etc. on wall.	4	NO		
	A) Control room entrance - 02 Nos				
	B) Toilet entrance - 01 Nos				
	C) LPG room entrance - 01 Nos				
19	Supply and Fixing of 230 V, AC,50 Hz, 1.5T capacity, SPLIT AC, Voltas / O General / Blue star / Carrier / Oneida make, Minimum 5 star power rating ,High wall mounting, remote control with one year Warranty. Performance of the AC units shall be proved.	3	NO		
20	Supply and Fixing of 230V, Single phase, AC, "V GUARD" make only, 4KVA Stabilizer.	3	NO		
	Wall mounted, Input voltage:160V-270V, Output Voltage-200-240V,With surge protection				
	TOTAL AMOUNT				
	Service Tax @ %	Rs.			
	TOTAL AMOUNT INCLUDING SERVICE TAX @ ____ %.				

Note:

- 1 There is no Free issue of materials involved in this Work from BHEL except supply water & electricity.
- 2 Service tax shall be reimbursed to the contractor against submission of valid service tax invoice /proof for payment of service tax shall be enclosed for releasing the payments.
- 3 No column should be left blank.
- 4 4% WCST shall be deducted from the bills if Form-S issued specific to the contract and specific to the period of work is not submitted.

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