

BILL OF QUANTITIES FOR INTERIOR WORKS OF OFFICE OF NERLP
AT DILIP HUZURI PATH, SUPERMARKET,G. S. ROAD,GUWAHATI

CONSULTANT

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November 28, 2014

DETAILED ESTIMATE FOR INTERIOR WORKS OF OFFICE OF NERLP

AT SARUMOTORIA ROAD, G. S. ROAD, GUWAHATI

ABSTRACT OF COST

SL. No.	DESCRIPTION OF WOKS	Amount
1	Cost of Civil Works (<i>Part - A</i>)	
5	Cost of Electrical Works (<i>Part - D</i>)	
10	Cost of Fire Fighting and cctv Works (<i>Part - I</i>)	
12	Cost of HVAC Works (<i>Part - K</i>)	
	TOTAL COST Rs.	
	SAY	
(Rupees)

November 28, 2014

INTERIOR WORKS

DETAIL ESTIMATE

Sl. No.	APWD 2013-14 SOR No	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs)
CIVIL WORK						
1	4.1.11	Brick wall in cement lime mortar in prop. 1 cement: 1 lime putty: 6 fine sand including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embeded in cement mortar and will be measured and paid separately)				
		a) 112mm thick brick wall	Sqm.	3.00		
2	23.7	Demolishing brickwork including stacking of serviceable materials and disposal of unserviceable materials as directed for all levels	Cu.m.	1.00		
3	6.2.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.				
		a) In cement mortar 1:4	Sqm.	6.00		

Sl. No.	APWD 2013-14 SOR No	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs)
		FALSE CEILING				
	7.11	ACOUSTICAL APPLICATION				
4	7.11.1	Providing and fixing Mineral Fiber Acoustic Ceiling Tiles in 600mm x 600mm of 13mm/15mm thickness to be placed in E- Grid Suspended Ceiling Grid 2430 System consisting of Main Runner 3600 mm long, Cross Tee 1200mm/600mm long and Wall Angle. The Wall Angle shall be fixed on PVC Dash Fasteners on the perimeter of the wall by steel screws with distance 300 mm c/c. Main Runner shall be placed along the shorter dimension of the area to be covered. The distance between the two Main Runners to be maintained at 1200mm. The Cross Tee 1200mm will be inserted in the pre-cut slots of Main Runner at a regular interval of 600 mm to form a modular grid of 1200mm x 600mm. Additional Cross Tees of 600 mm shall be placed perpendicular to the Cross Tee 1200 mm long to finally form a grid of 600mm x 600mm. E-Grid of module size 600mm x 600mm shall be supported by 4/6 mm dia G.I. wire from purlins/soffit Mineral Fiber Acoustic Ceiling Tiles of Everest Industries Limited should be placed in the E-Grid module to form a False Ceiling including the cuttings complete as directed.				
		A) Everest Designer Ceilings or equivalent as directed by the departement (Primered)				
		A) Using 13mm thick ceiling tiles	Sqm.	210.00		
		WOOD WORK				
5	MARKET RATE	Providing ,fitting and fixing, office cabinets made of bwp blockboard of pine wood 19 mm thick, fixed to floor and with metal fixtures and to walls/columns with nail , finished with 1 mm laminate outside and .7 mm laminate inside as specified including all necessary fixtures like hinges, locks, handles, fevicol etc complete.				
		green ply, merino, century etc	Sq.m.	5.00		

Sl. No.	APWD 2013-14 SOR No	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs)
		PARTITION				
6	11.5.2	Providing, fitting and fixing coloured anodised aluminium framed glazed doors with partition walls partly glass and partly prelaminated board with anodised aluminium frame made of 100mm x 43mm x 2mm sections of approved brand with doors style of size 81mm x 43mm x 2mm, top rails 46mm x 43mm x 2mm, lock rails 81mm x 43mm x 2mm, fitting with glazing clip, special rubber type gasket complete including hydraulic floor spring pivot aluminium door handle lock angles cleat etc. complete as directed by the department at all levels.				
		(i)6mm thick glass panes and 12mm prelaminated board	Sq.m	200.00		
7	MARKET RATE	Removing and stacking existing partition without breakage from existing office, transporting to new office including loading, unloading with all labour included and storing if required at allotted location at new site, and later assembling the same to make partitions at the new site. All necessary fittings and fixtures to be provided and work completed in all aspect. any damage to be paid by the contractor.	item			
		PAINTING WORK				
8	13.4.1	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.				
		(a).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	Sqm.	200.00		

Sl. No.	APWD 2013-14 SOR No	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs)
		FURNITURE				
9	MARKET RATE	Removing and stacking existing furniture without breakage from existing office, transporting to new office including loading, unloading with all labour included and storing if required at allotted location at new site, and later assembling the same to suit placement at the new site. All necessary fittings and fixtures to be provided and work completed in all aspect. any damage to be paid by the contractor.	item			
10	15.6.1	Supplying, fitting and fixing MAC blinds horizontal and vertical complete as specified and directed by the department at all levels.				
		(A) Vertical blinds				
		(a) Regular				
		iii) 75 mm	Sqm.	54.00		
11	MARKET RATE	Removing and stacking existing vertical blinds without breakage from existing office, transporting to new office including loading, unloading with all labour included and storing if required at allotted location at new site, and later assembling the same to suit placement at the new site. All necessary fittings and fixtures to be provided and work completed in all aspect. any damage to be paid by the contractor.	item			
		ANCILLARY WORKS				
12	MARKET RATE	Cleaning of floor tiles with approved chemical.	L.S.	1.00		
13	MARKET RATE	Removing all debri from site and overall cleaning	each	1.00		
Total Cost						
						Say Rs.

ELECTRICAL WORKS

DETAIL ESTIMATE

PWD SOR NO. 2013	ITEM DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
SB.2.17	Wiring for light/ fan/ call bell point with 3x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable HFFR/ZHFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 2 mm thick 20mm dia rigid low halogen SFT PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including ceiling				
	SB.2.17.1 Short point up to 3.00 metre. Length.	Each	76		
SB.2.6	Wiring for circuit wiring with P.V.C. insulated single core unsheathed industrial (Multistrand) cable HFFR/ZHFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco or Equivalent Make as approved by the Deptt.) cable in surface/ recessed PVC 2 mm thick rigid low halogen SFT PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
	SB.2.6.2 With 3 x 1.5 sq. mm. cable in 20 mm dia. rigid low halogen SFT PVC IS: 9537 Part - III conduit	Metre.	226		
SB.2.7	Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable HFFR/ZHFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco or Equivalent Make as approved by the Deptt.) in PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) with earth continuity in surface/ recessed 2 mm thick rigid low halogen SFT PVC IS: 9537 Part - III conduit wiring system.				
	SB.2.7.1 (a) with 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. rigid low halogen SFT PVC IS: 9537 Part - III conduit.	Metre.	231		
	SB.2.7.2 b) with 2 x 4 sq. mm. + earth continuity with 1x2.5 sq. mm. in 20 mm. dia. rigid low halogen SFT PVC IS: 9537 Part - III conduit	Metre.	398		

PWD SOR NO. 2013		ITEM DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
2.9		Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
	2.9.4	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	45		
SB. 8.34		Supplying including and fixing of following PVC surface boxes for MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB				
	SB. 8.34.1	1-2 module type	Each	65		
	SB. 8.34.2	3 module type	Each	38		
	SB. 8.34.3	4-5 module type	Each	9		
	SB. 8.34.4	6-8 module type	Each	30		
	SB. 8.34.6	12-16 module type	Each	2		
SB. 8.37		Supplying including fitting fixing of following front plate of suitable colour MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE as per direction of department.				
	SB. 8.37.1	1 module	Each	53		
	SB. 8.37.2	2 module	Each	12		
	SB. 8.37.3	3 module	Each	38		
	SB. 8.37.4	4 module	Each	9		

PWD SOR NO. 2013		ITEM DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SB. 8.37.6	6 module	Each	25		
	SB. 8.37.7	8 module	Each	5		
	SB. 8.37.8	16 module	Each	2		
SB. 8.38		Supplying including fitting and fixing of TV co-axial outlet MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/ PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRABTREE including making necessary connection as per direction of department.	Each	1		
SB. 8.39		Supplying with fitting and fixing of RJ-11 Telephone jack MODEL RANGE LEG	Each	28		
SB. 8.52		Supplying including installation of socket outlet 6/16 Amps 3/5 pin combine shuttered complete , MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	28		
SB. 8.54		Supplying including installation of socket outlet 6 Amps 3 pin combine shuttered complete , MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	74		
SB. 8.55		Supplying with fitting fixing of 16 amp one way modular clip in switch, MODEL RANGE LEGRAND (MYLINC), ANCHOR (ROMA), MK (IVORY), ABB (CLASSIC), KOLORS (KRAZE), SCHNEIDER (OPAL), PHILIPS, Havells including making necessary connection as per direction of department.	Each	28		
SB. 8.57		Supplying with fitting fixing of 6 amp one way modular clip in switch, MODEL R	Each	183		

PWD SOR NO. 2013		ITEM DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
		MCB IN-comer TPN (Horizontal DB)				
15.21		Supplying with fitting and fixing MCCB income and MCB outgoing sheet steel,				
	15.8.1	ABB, Schneider MG, legrand, Hager make)				
	15.21.1.3	12 way TPN (4+36) single door	Each	1		
16.1		Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified				
	16.1.2	C Series (Schneider MG, legrand, Hager make)				
	16.1.2.1	6 to 32A	Each	36		
16.4		Supplying with fitting and fixing TP 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.				
	16.4.1.2	40A	Each	1		
23.1		Supplying with fitting fixing of CFL/Fluorescent luminaries complete with all accessories such as ballast, starter etc. directly on wall / ceiling including connection as approved by the Deptt.)with 1.5 sq mm P.V.C. insulated S.C. copper conductor as required and as directed by the department.				
	ECBC.3.2.3	Ultra Slim T5 luminaries and Electronic ballast with 1 X 28 W T5 lamp(Crompton Greaves make Model- T5LO1128 LITE LINE/ Sleek and Ultra light extruded metal T5 luminaries and Electronic ballast with 1 X 28 W T5 lamp (Crompton Greaves make Model- T5LN28 LITE n SLIM or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (equivalent PHILIPS/ WIPRO/ BAJAJ/ Havells/ HPL/ SOLAR/ JAQUAR make).	Each	3		
	ECBC.3.5.11	WVF 53414 SGW 4 x 14 W FTL T5) Recess mounted indirect- direct luminaries with High Efficiency Translucence (HET) Technology suitable for FTL T5) Lamps. Or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (equivalent PHILIPS/ JAQUAR make).	Each	31		

PWD SOR NO. 2013		ITEM DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	ECBC.3.8.2	b. DDLH218EB / N6 2 x 18W CFL CROMPTON make Recessed/surface mounted horizontal lamp down light with bright anodized aluminium reflector & integral control gear box including 2 x18 W CFL .or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (equivalent PHILIPS/ WIPRO/ BAJAJ/ Havells/ HPL/ SOLAR/ JAQUAR make).	Each	2		
	ECBC.3.8.2	b. DDLH218EB / N6 or TLE218EB 2 x 18W CFL CROMPTON make Recessed mounted horizontal lamp down light with bright anodized aluminium reflector & integral control gear box including 2 x18 W CFL .or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (equivalent PHILIPS/ WIPRO/ BAJAJ/	Each	10		
16.13		Supplying with fitting and fixing panel mounting open execution 25 KA 415V 50Hz 3P MCCB (Ics=Icu, adjustable Ir setting 0.7) without enclosure of the following capacity				
	16.13.1	25 KA 415V 50 Hz 3P MCCB (Schneider, legrand, Siemens make)				
	16.13.1.7	125A	Each	1		
27.4		Supplying including fitting fixing of following A.C. Wall fan in the wall of following				
	27.1.9	CROMPTON make)				
	27.4.1.3	Wall 43 , 400 mm sweep	Each	22		
27.2		Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on				
	27.2.1.8	Trans Air 300 mm sweep (Crompton make)	Each	3		
SB.10.20		Supplying ,installation, testing & commissioning of 2 pair Unarmoured Telephone Cable through existing conduit in surface/ recess system.	Metre.	835		
SB.10.21		Supplying ,installation, testing & commissioning of 5 pair Unarmoured Telephone	Metre.	20		
SB.10.10		Supplying ,installation, testing & commissioning of Distribution Box 50 pairs with	Each	1		
SB. 16.4		Supply, installation testing and commissioning of following LAN networks equipments.				

PWD SOR NO. 2013		ITEM DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SB. 16.4.1	Solid Copper Cable Cat 6, 4 pair, UTP - 305m SCHNEIDER/LEGRAND or equivalent make as approved by the Deptt..(305 mtr)	Box	3		
	SB. 16.4.5	Cat 6 Keystone UTP Jack with Dust Cover-White SCHNEIDER/LEGRAND or equivalent make as approved by the Deptt..	Nos	25		
6.2		Supply and fixing of 25 mm dia 1.50mm to 2.00mm average wall thickness heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) on surface system including painting etc as required:	Metre	689		

TOTAL AMOUNT

FIRE DETECTION AND CCTV WORKS

DETAIL ESTIMATE

Sl. No.	Description of work	Make	Unit	Qty.	Rate	Amount
I	Supply, Installation, Testing and commissioning of Fire Alarm System by certified and authorised distributor/ vendor of an OEM complying to the mentioned standards and Make as approved as per requirement but not limited to it as stated below.					
1.00	Providing and fixing Optical Smoke Detector with base and all accessories in place.	Syestem Sensor	Nos	25		
2.00	Providing and fixing Heat Detector with base and all accessories in place.	Syestem Sensor	Nos	11		
3.00	Providing and fixing Hooter / sounder and all accessories in place.	Agni	Nos	1		
4.00	Providing and fixing Manual Call Box with standard required base & accessories.	Agni	Nos	1		
5.00	Providing and fixing Main Fire Alarm Control Panel - 4zone with all necessary accesories.	Agni	Nos	1		
6.00	Providing and fixing Responce indicator with all necessary accesories.	Agni	Nos	10		
7.00	Wiring with 1100v grade pvc insulated copper conductor in existing PVC conduit 1.5sq mm	R R CABLE	METER	200		

<u>Sl. No.</u>	<u>Description of work</u>	<u>Make</u>	<u>Unit</u>	<u>Qty.</u>	<u>Rate</u>	<u>Amount</u>
II	Supply, Storage, Installation of CCTV					
8.00	Providing and fixing Color Dome Camera with all necessary accesories.	Capture	Nos	1		
9.00	Providing and fixing 4 channel DVR with all necessary accesories.	Capture	Nos	1		
10.00	Providing and fixing Power Supply Adopter .	Local make	Nos	1		
11.00	Providing and fixing BNC Connector with all necessary accesories.	Local make	Nos	4		
12.00	Providing and fixing Telemax 3+1 CC TV cable		METER	10		
13.00	Providing and fixing CCTV MONITOR		Nos	1		
14.00	Providing computer Hard Disk 500 GB		Nos	1		
TOTAL						

HVAC WORKS**DETAIL ESTIMATE**

Sr. No	Description	MAKE	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
PART-A :: SUPPLY OF AC						
A	High Side Works					
1	Supply of Cassette AC of following capacities:	CARRIER, BLUESTAR				
1.1	1.5 TR		5	Ea		
2	Supply o Hi-wall Split AC of 5-Star Rating of following capacities:	CARRIER, BLUESTAR				
2.1	1.0 TR		6	Ea		
2.2	1.5 TR		5	Ea		
3	Supply of Voltage Stabilizer with input Voltage Range 110V - 300V of following capacities	SKYLAND, V-GUARD				
3.1	3 KVA		6	Ea		
3.2	4 KVA		5	Ea		

BASIC TOTAL:**PART-B :: INSTALLATION OF AC**

7	Supply, Installation, Testing & Commissioning of Refrigerant Copper piping (Suction / Discharge) for proper functioning of Units. Refrigerant Copper Pipe insulated with manufacturer recommended thickness closed cell electrometric Nitrile Rubber interconnecting indoor & outdoor unit of various sizes as mentioned below					
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Sr. No	Description	MAKE	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
7.1	5/8" & 1/2" dia pipe (for 1.5 TR Cassette)		75	Rmt		
7.2	1/2" & 1/4" dia pipe (for 1.0 TR & 1.5 TR)		30	Rmt		
8	Supply, Installation, Testing and commissioning of PVC Drain Piping of diameter as mentioned below insulated with 6mm thick superlon insulation.					
8.1	19 mm dia pipe		100	Rmt		
9	Supply & Installation of Power & Control Cable		75			
9.1	4 Core x 2.5 Sqmm Copper Cable (IDU to Condensing Unit)		20	Rmt		
9.2	4 Core x 1.5 Sqmm Copper Cable (IDU to Condensing Unit)		100	Rmt		
10	Standard Installation Charge of Cassette Units alongwith MS stand (Black/white painted after applying double coat of primer)		5	Ea		
11	Standard Installation Charge of Hi-wall Split AC alongwith MS stand (Black/white painted after applying double coat of primer)		11	Ea		
12	Standard Installation Charge of Voltage Stabilizer		11	Sqm		
TOTAL INSTALLATION (PART B)						
TOTAL						