

**CSIR-NORTH EAST INSTITUTE OF SCIENCE & TECHNOLOGY****(COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH)****Jorhat Assam 785 006****NAME OF WORK: Renovation of Director's Cell and A.O's office at CSIR-NEIST, Jorhat i/c Electrical works.****SCHEDULE OF QUANTITIES**

Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
1	Dismantling of existing steel windows/ steel ventilators/ steel windows and steel ventilators without damaging the walls, removing to a safe place and necessary repairs to the edges of walls.	Sqm	30.45			
2	Dismantling all types of ceiling, partition and wall lining and stacking the materials as directed by the department for all levels	SQM	217.06			
3	Demolishing mosaic floor of various thickness both mosaic tiles and cast-in-situ type including CC base course and removal of debris as directed for all levels.	Sqm	136.59			
4	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 18mm on floors, skirting's, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand ) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)a) Normal range :Somany/ Orient/Nitco /Varmora/VITA/ Marbitto/ Make ii) Of size 600mmx600mm and above	Sqm	114.30			
5	Providing polished granite slab of approved quality, size, shape and thickness not less than 18 mm on floors, skirting's, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1:3 (1 cement : 3 coarse sand ) including cutting where necessary finished with flush pointing with Fix-A-Tile Choksey/Sika/Pedelite/Rouf) /white cement slurry mixed with approved pigment to match the shade of granite slab, complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of slab and as approved and directed by the Department). (iii) Deluxe Quality.	Sqm	7.42			

Sub Total Rs.

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
6	15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side a) In cement mortar 1:3	Sqm	11.00			
7	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) Using 15mm thick ceiling tiles	Sqm	60.90			
8	Providing, fitting and fixing anodized aluminum framed glazed doors with anodized aluminum frame made of 100mm x 45mm x 2.5mm section with door style of size 88mm x 45mm x 2.5mm, top rails 50mm x 45mm x 2mm and bottom rails 100mm x 45mm x 2.5mm fitted with glazing clip, special type rubber gasket complete etc complete as specified and directed by the department at all levels.(a) with 12 mm thick toughened glass	Sqm	24.09			
9	Providing, fitting and fixing coloured anodized aluminum sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitered and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.(b)3 Track sliding window (v) 5 mm coloured glass	Sqm	30.45			

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
10	Supplying, fitting and fixing anodised aluminum decorated grill with anodized aluminum rectangular frame of 'F' and 'H' section fitted with walls, columns or stiffeners by special type of screws as per specification by the Department for all levels. (Aluminum Alloy procured from primary aluminum producer (On submission of certificate of alloy purchasing from primary producer)	Sqm	30.45			
11	Dismantling and removing the existing door and window frame (chowkath) both wooden and steel of different sizes without damaging the walls and removing the frame and necessary repairs to the edges of the walls as directed for all levels. (ii) Area of door/window above 3.00 m <sup>2</sup>	Each	9.00			
12	Providing, fitting and fixing Floor Spring of various weight & type UL listed and fire rated good quality depending on the door specification. Types like single speed, Double Speed, Heavy Duty etc are available and as directed & specified by the department B) Godrej a) Fire rated floor spring B 803( size 307mm x 109mm x 40mm)- 80 kg door/ B 804( size 307mm x 109mm x 40mm)-100 kg door (Godrej make)	Each	9.00			
13	Supplying, cutting and pasting decorative non/transparent transparent /opaque film over glass panes .etc .complete as per direction of Engineer-in charge.	Sqm	48.18			
14	Supplying ,fitting and fixing 6 mm thick clad as wall paneling including necessary framing of anodized alluminium section of 50.8mmx50.8mmx1.91mm thick fixed on masonry wall i/c necessary screws /rivets etc complete as directed , Clad is of Greelam made etc complete as directed.	Sqm	155.00			

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
15	Providing polished ceramic wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirting's over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand ) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey / Sika / Pedelite / Rouf) /white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls mean both interior and exterior walls). c) Deluxe range Somany/ Orient/Nitco/Varmora Make iv) Of size 300mmx600mm and above	Sqm	21.29			
16	Supplying ,fitting and fixing in position with necessary drilling ,cutting stainless steel Glass knob of closma make or equiv.	Each	1.00			
17	Supplying ,fitting and fixing in position with necessary drilling ,cutting etc Stainless steel D Handle of Droma/ Enox make or equiv.(300 mm long)	Each	5.00			
18	Supplying ,fitting and fixing in position with necessary drilling ,cutting etc Stainless steel D Handle with lock of 1350 mm long of closma make or equiv.	Each	3.00			
19	Supplying ,fitting and fixing in position with necessary drilling ,cutting etc floor Bottom Lock Patch Droma or enox	Each	5.00			
20	Removing white or colour wash by steel wire brushing and/ or scraping, sand papering and preparing the wall surface smooth including necessary repairs to scratches complete.	Sqm	147.47			
21	Providing surface preparation for walls, ceiling etc.using average 1.50 mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. where necessary, with chalk powder and plaster of paris paste, making the surface even and smooth complete at all levels as specified and directed	Sqm	147.47			

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
22	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	147.47			
23	<p>GYPBOARD CEILING: Supplying, fitting, fixing and painting where necessary (one coat primer and two coats of paint) M/F Suspended Ceiling which includes G.I. perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screw fixed to brick wall/ partition with the help of nylon sleeves and screws, at 610mm c/c. Then suspending G.I. intermediate channels of size 45mm (0.9mm thick with two equal flanges of 15mm each) from the soffit at 1220mm c/c with ceiling angle of width 25mmx10mmx0.55mm thick fixed to soffit with G.I.cleat and steel expansion fasteners.</p> <p>Ceiling section of 0.55mm thickness having knurled web of 51.5mm and two equal flanges of 26mm each with lips of 10.5mm are then fixed to the intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457mm c/c, 9.5mm/ 12.5mm tapered edge Gypboard (conforming to IS:2095-1982) is then screw fixed to ceiling section with 25mm long drywall screws at 230mm c/c. Screw fixing is done mechanically either with screw driver or drilling machine with suitable attachment. Finally, the boards are to be jointed and finished so as to have a flush look which includes filling and finishing the tapered and square edges of the boards with jointing compound, joint paper tape and two coats of drywall topcoat suitable for Gypboard complete at all levels as specified and directed. (For light fittings, providing opening for doors, window, ventilators etc, cut out made with frame of perimeter channel supported suitably to be measured and paid separately where necessary). (i) 9.5mm thick</p>	Sqm	73.20			

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
24	Wiring for circuit wiring with P.V.C. insulated single core unsheathed multistrand cable HFFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /Havells make as approved by Deptt) in recessed PVC 2 mm thick rigid low halogen conduit (Berlia/ Polycab make .) wiring system.  3x1.5 sq mm single core PVC insulated multistrand copper conductor (R/B/G) in 19/20 mm dia rigid low halogen PVC conduit	Mtr	230.00			
25	Wiring for circuit wiring with P.V.C. insulated single core unsheathed multistrand cable HFFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /Havells make as approved by Deptt) in recessed PVC 2 mm thick rigid low halogen conduit (Berlia/ Polycab make .) wiring system.  3x1.5 sq mm single core PVC insulated multistrand copper conductor (R/B/G) in 19 mm flat PVC casing capping system	Mtr	100.00			
26	Wiring for drawing sub main with the following sizes of PVC insulated , unsheathed single core multistrand HFFR/ZHFR copper wire with conforming to IS-694: 1990(Finolex /Havells make) in recessed PVC 2mm rigid low halogen conduit (Berlia/ Polycab make .) wiring system.  (a) With 2x2.5 sq mm + earth continuity 1 x1.5 sq mm PVC insulated, unsheathed single core copper in 19/20 mm dia rigid low halogen SFT PVC conduit	Mtr	35.00			
	(b) With 2x4 sq mm + earth continuity 1 x 2.5 sq mm PVC insulated, unsheathed single core copper in 19/20 mm dia rigid low halogen SFT PVC conduit	Mtr	120.00			

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26	© With 2 x 6 sq mm + earth continuity 1 x 4 sq mm PVC insulated, unsheathed single core copper in 19/20 mm dia rigid low halogen SFT PVC conduit	Mtr	30.00			
27	Wiring for drawing sub main with the following sizes of PVC insulated , unsheathed single core multistrand HFFR/ZHFR copper wire with conforming to IS-694: 1990(Finolex /Havells make) in surface flat 19 mm casing caping (Berlia/ Polycab make .) wiring system.  (a) With 2x2.5 sq mm + earth continuity 1 x1.5 sq mm PVC insulated, unsheathed single core copper in 19 mm casing caping.	Mtr	55.00			
	(b) With 2x 4 sq mm + earth continuity 1 x 4 sq mm PVC insulated, unsheathed single core copper in 25 mm flat PVC casing caping.	Mtr	240.00			
	(c) With 2x 6 sq mm + earth continuity 1 x2.5 sq mm PVC insulated, unsheathed single core copper in 19 mm flat PVC casing caping	Mtr	60.00			
	(d) With 4x 10 sq mm + earth continuity 1 x 6 sq mm PVC insulated, unsheathed single core copper in 32 mm flat PVC casing caping	Mtr	15.00			
28	Supplying with fitting and fixing 6 / 10 amp one way modular clip in switch (Legarnd ,Arestor/MK Blenze make )including making necessary connection as directed by department.	Each	29.00			
29	Supplying with fitting and fixing 16 amp one way modular clip in switch (Legarnd ,Arestor/MK Blenze make )including making necessary connection as directed by department.	Each	49.00			
30	Supplying with fitting and fixing 6 amp one way modular clip in switch (Legarnd ,Arestor/MK Blenze make )including making necessary connection as directed by department.	Each	3.00			

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
31	Supplying with fitting and fixing modular clip in socket out let 10/16 amp 3/5 pin combine shuttered (Legarnd ,Arestor/MK Blenze make )including making necessary connection as directed by department.	Each	40.00			
32	Supplying with fitting and fixing modular clip in socket out let 6 amp 3/5 pin combine shuttered (Legarnd ,Arestor/MK Blenze make )including making necessary connection as directed by department.	Each	5.00			
33	Supplying with fitting and fixing of blank plate single modular switch system (Legrand, Arestor/MK Blenze Make) including making necessary connection as directed by department.	Each	10.00			
34	Supplying with fitting and fixing of 120watt 5 step electronic modular fan speed controller (2 modulae) (Legrand, Arestor/MK Blenze Make) including making necessary connection as directed by department.	Each	9.00			
35	Supplying with fitting and fixing of 25 A modular motor starter (2 modulae) (Legrand, Arestor/MK Blenze Make) including making necessary connection as directed by department.	Each	2.00			
36	Supplying with fitting and fixing of following range of front plate suitable for colour (Legrand, Arestor/MK Blenze Make) including making necessary connection as directed by department.(a) 1 Modulae	Each	1.00			
	(b) 2 Modulae	Each	3.00			
	(c) 3 Modulae	Each	1.00			
	(d) 4 Modulae	Each	1.00			
	(e) 6 Modulae	Each	20.00			
	(f) 8 Modulae	Each	3.00			
	(g) 9 Modulae	Each	2.00			
	(h) 12 Module	Each	2.00			

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
37	Supplying including fitting and fixing of following moulded PVC boxes (Legrand, Arestor/MK, Blenze Make) in surface/recessed system complete as per direction of department. (a) 1-3 Module PVC boxes.	Each	5.00			
	(b) 4-5 Module PVC boxes	Each	1.00			
	(c) 6-8 Module PVC boxes	Each	23.00			
	(d) 9-12 Module PVC boxes	Each	4.00			
38	Supplying including fitting and fixing of modular TV co-axial outlet (Legrand/MK Make) including making necessary connection as specified by department.	Each	1.00			
39	Supplying including fitting and fixing of modular RJ-11 Telephone jack (Legrand/MK Make) including making necessary connection as specified by department.	Each	9.00			
40	Supplying including fitting and fixing of modular CAT 6 RJ-45 computer jack (Legrand/MK Make) including making necessary connection as specified by department.	Each	9.00			
41	Wiring for internal telephone wiring with the 0.71 mm size 3 pair PVC insulated unsheathed copper cable on surface/recessed 19 mm dia 2.00 mm thick rigid conduit or PVC casing capping as specified by department.	Mtr	180.00			
42	Supplying and drawing co-axial internet cable CAT-6 wire with PVC insulated on surface/recessed 19mm dia 2.0 mm thick rigid PVC conduit/ PVC casing capping as per direction of deptt.	Mtr	180.00			
43	Supplying and fixing of 3 plate ceiling rose (Anchor Penta/Maru Neo speed Make) on the PVC block including all necessary connection as specified by department.	Each	24.00			
44	Supplying with fitting and fixing 4+12 way sheet steel phosphatised, power painted double door surface mounting vertical MCB TPN MCB DB incorporated with bus bar, neutral link, earth bar and din rail etc. complete with making necessary connection as specified and directed by deptt. (Legrand/Havells Make)	Each	1.00			

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
45	Supplying with fitting and fixing sheet steel phosphatised power painted single door surface mounting 2 way MCB enclosure and necessary connection as directed by deptt. . Legrand/Havells Make	Each	3.00			
46	Supplying with fitting and fixing 10 kA 240/415 v 50 Hz. B-series MCB of following capacity complete with necessary connection and terminal lug as reqd.  (a) 6-32 A single Pole MCB (Legrand/ Havells Make)	Each	18.00			
	(b) 63 A 4 pole Pole MCB (Legrand/Havells Make)	Each	1.00			
	(c) 32 A double Pole MCB (Legrand/Havells Make)	Each	3.00			
47	Supplying fitting and fixing of recessed mounting 18 watt 6K square shap LED down light complete with integrated electronic driver and necessary connection as required. Havells Endura Ultra Slim Make. LHEBJNP7IZ1W018	Each	7.00			
48	Supplying fitting and fixing of recessed mounting 34 watt 6K square shap LED down light complete with integrated electronic driver and necessary connection as required. Havells Pluto Flat Panel Make. LHEEBP7CUL1W034 (Ceiling cut out size 580 x 580 mm)	Each	6.00			
49	Supplying fitting and fixing of recessed mounting 7 watt 6K round shape LED down light complete with integrated electronic driver and necessary connection as required. Havells Endura DL Make. LHEBJNP7PZ1W007	Each	14.00			
50	Supplying fitting and fixing of 24 watt 6K 5 Metre length LED strip light complete with integrated electronic driver and necessary connection as required. Havells Endura Lite Make. LHEJD01024698	Each	4.00			
51	Supplying with fitting and fixing 6 way sheet steel phosphatised, power painted double door surface mounting vertical MCB SPN MCB DB incorporated with bus bar, neutral link, earth bar and din rail etc. complete with making necessary connection as specified and directed by deptt. (Legrand/Havells/Crabtee Make	Each	1.00			

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Sl. No	Description of Item	Unit	Qty	Rate in Figure	Rate in Words	Amount
52	Supplying and fixing of call bell (Ding Dong) including 6A capacity flush type bell push switch including connection as approved by the deptt. Anchor/Maru Make	Each	3.00			
53	Dismantling and making good by damage done including painting the same as specified and directed by deptt	LS	LS			

Total Value Rs.

Rupees (.....) only.

NB:

- : 1. Rate must be quoted both in word and figure.
- 2. All work will be executed as per CPWD's norms.

Signature of Contractor