

PROJECT : UPGRADING OF ARC BUILDING (2025)
 LOCATION : PNRI Compound, Commonwealth Avenue, Diliman, Quezon City
 SUBJECT : BILL OF QUANTITIES

NSD-ESS-04

BILL OF QUANTITIES

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
I GENERAL REQUIREMENTS																
1	Mobilization and demobilization	1	lot													
2	Bonds and Insurances	1	lot													
3	Temporary facilities	1	lot													
4	As-built plan	1	lot													
5	Project Billboard	1	lot													
SUB-TOTAL (GENERAL REQUIREMENTS)																
II CIVIL WORKS																
I [APRS] Applied Physics Research Section																
1	Supply and installation of floor tiles (ARC Basement, Hallway)															
<i>1.1 Surface preparation</i>																
1.1.1	Chipping and disposal of waste	1	lot													
1.1.2	Ready fixed adhesive	6	gal													
1.1.3	ABC tile cement	6	bag													
<i>1.2 Installation of floor tiles</i>																
1.2.1	(0.60m x 0.60m) white porcelain tiles, marble design	160	pc													
1.2.2	ABC tile cement	13	bag													
1.2.3	Portland cement	13	bag													
1.2.4	ABC grout	6	kg													
2	Repainting of stain cabinets (ARC Basement, Neutron Lab)															
2.1	Q.D.E. paint	1	gal													
2.2	Paint roller	1	pc													
2.3	Paint thinner	1	bottle													
2.4	Sand paper	4	pc													
2.5	Glazing putty	2	lit													
3	Installation of floor drain including restoration of flooring (ARC Basement, Neutron Lab)															
3.1	8" x 8" stainless steel floor drain (Pozzi)	4	pc													
3.2	3" Ø x 10ft. PVC pipe, S-1000	1	pc													
3.3	3" Ø x PVC elbow S-1000	3	pc													
3.4	PVC cement	0.25	lit													
3.5	Epoxy adhesive (A&B)	1	lit													
3.6	Chipping works	1	lot													
3.7	Restoration of concrete flooring	1	lot													
4	Waterproofing of existing concrete wall including beams and column (ARC Basement, Neutron Lab)															
4.1	Removal of existing paint (Strip to concrete)	50	sq.m.													
4.2	Paint remover	4	gal													
4.3	Disposal of waste	1	lot													
4.4	Application of crystalline water proofing, 5 coats	50	sq.m.													
5	Upgrading of OJT's room (ARC Basement, Formerly Stockroom C)															
<i>5.1 Repainting of interior concrete walls and ceiling</i>																
5.1.1	Ceiling including beams	28	sq.m.													
5.1.2	Walls including columns and beams	64	sq.m.													
<i>5.2 Installation of porcelain floor tiles, marble design</i>																
5.2.1	(0.60m x 0.60m) white porcelain floor tiles, marble design	84	pc													
5.2.2	Ready fixed adhesive	3	gal													
5.2.3	ABC tile adhesive	31	bag													
5.2.4	Chipping and disposal of waste	28	sq.m.													
<i>5.3 Supply and installation of glass white board</i>																
5.3.1	(2.40m x 1.20m x 1/4" thk.) Glass white board	1	set													
<i>5.4 Supply and installation of conference table with chairs</i>																
5.4.1	(1.80m (L) x 1.00m (W) x 0.75m (H) conference table with pre-painted tubular steel legs and frame (black), with HPL top wooden finish	1	set													
5.4.2	stainless steel conference office chair with arm rest, heav-duty type (see sample image)	6	set													
SUB-TOTAL (APRS)																
II [NROS] Nuclear Reactor Operations Section																
1	Supply and installation of white board with aluminum frame and caster (ARC Basement, Classroom 1)															

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(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.1	(1.50m (L) x 0.90m (W) x 0.80m (H)) movable white board (see drawing)	2	set													
2	Supply and installation of office tables (ARC Basement, Classroom 1)															
2.1	(1.50m (L) X 0.60m (W) x 0.74m (H) steel pre-painted frame, MDF board with HPL desk type (see drawing)	5	set													
3	Supply and installation of office chairs (ARC Basement, Classroom 1)															
3.1	± 20" (W) x 21 15/16" (D) x 32 1/2" (H) steel pre-painted black plastic with seat material, Lifetime (see drawing)	10	set													
4	Supply and installation of floor tiles (ARC Basement, Classroom 1 and Classroom 2)															
4.1	<i>Surface preparation</i>															
4.1.1	Chipping and disposal of waste	1	lot													
4.1.2	Ready fixed adhesive	10	gal													
4.1.3	ABC tile cement	10	bag													
4.2	<i>Installation of floor tiles</i>															
4.2.1	(0.60m x 0.60m) white porcelain floor tiles, marble design	252	pc													
4.2.2	ABC tile cement	32	bag													
4.2.3	Portland cement	32	bag													
4.2.4	ABC grout	8	kg													
5	Waterproofing of concrete walls including columns and beams on 4 rooms (ARC Basement, Classroom 1, Classroom 2, Old SSDL Room 1, and Old SSDL Room 2)															
5.1	Removal of existing paint (Strip to concrete)	122	sq.m.													
5.2	Paint remover	8	gal													
5.3	Disposal of waste	1	lot													
5.4	Application of crystalline water proofing, 5 coats	122	sq.m.													
6	Repair of all wall cracks and apply epoxy injection on 4 rooms (ARC Basement, Classroom 1, Classroom 2, Old SSDL Room 1, and Old SSDL Room 2)															
6.1	Application of epoxy injection	1	lot													
6.2	Chipping works	1	lot													
6.3	Disposal of waste	1	lot													
7	Repainting of concrete walls and ceiling on 4 rooms (ARC Basement, Classroom 1, Classroom 2, Old SSDL Room 1, and Old SSDL Room 2)															
7.1	Concrete ceiling including beams	142	sq.m.													
7.2	Interior concrete walls including columns	278	sq.m.													
7.3	Exterior concrete walls	102	sq.m.													
8	Supply and installation of aluminum windows and door (ARC Basement, Classroom 1)															
8.1	Chipping/ demolition of R.C. walls (8" thk.) (1.10m (H) x 7.20m (W) wall opening including rental of equipment	1	pc													
8.2	Chipping/ demolition of R.C. walls (8" thk.) (1.10m (H) x 1.30m (W) wall opening including rental of equipment	1	pc													
8.3	Chipping/ demolition of R.C. walls (8" thk.) (2.10m (H) x 2.00m (W) wall opening including rental of equipment	1	pc													
8.4	(1.10m (H) x 1.20m (W) analog aluminum frame with 1/4" thk. bronze sliding glass window with complete lockset and accessories	6	set													
8.5	(1.10m (H) x 1.30m (W) analog aluminum frame with 1/4" thk. bronze fixed glass window with complete lockset and accessories	1	set													
8.6	(2.10m (H) x 2.00m (W) analog aluminum frame with 1/4" thk. bronze sliding glass door with complete lockset and accessories	1	set													
8.7	Concrete restoration of wall opening (1.10m (H) x 7.20m (W) wall opening	1	pc													
8.8	Concrete restoration of wall opening (1.10m (H) x 1.30m (W) wall opening	1	pc													
8.9	Concrete restoration of wall opening (2.10m (H) x 2.00m (W) wall opening	1	pc													
8.10	Cleaning and hauling and disposal of concrete debris	1	lot													
SUB-TOTAL (NROS)																
III [BMRS] Biomedical Research Section																
1	Application of 3mm thk. self-leveling epoxy floor (2nd floor, Bio-Material Lab)															
1.1	3mm thk. self-leveling epoxy (Sika) with silica sand	19.2	sq.m.													
2	Demolition of existing emergency shower and restoration works (2nd floor, Bio-material Lab)															
3	Removal of existing windows and replace with 6" thk. CHB wall with plastering and painting on both faces (2nd floor, Bio-Material Lab)															
3.1	Chipping / removal of windows and disposal	1	lot													
3.2	6" CHB	60	pc													
3.3	Portland cement	12	bag													
3.4	White sand	2	cu.m.													

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(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
3.5	Flat latex paint	1	gal													
3.6	Gloss latex paint	2	gal													
3.7	Assorted sand paper (12" x 12")	10	pc													
3.8	Skim coat	2	bag													
3.9	10mm Ø x 6.00m def. bar	3	pc													
3.10	Ga. 16 G.I. tie wire	1	kg													
4	Demolition of existing CHB countertop and restoration (2nd floor, Bio-Material Lab)															
4.1	Demolition, hauling, and disposal	1	lot													
4.2	Restoration Works	1	lot													
5	Relocation of existing table, equipment 1, equipment 2, and Refrigerator (2nd floor, Bio-material Lab)	1	lot													
6	Relocation of existing fumehood and restoration of ceiling (2nd floor, Bio-material Lab)	1	lot													
7	Repainting of interior walls and ceiling (2nd floor, Bio-Material Lab)															
7.1	repainting of walls	45	sq.m.													
7.2	repainting of ceiling	18	sq.m.													
8	Re-installation of emergency shower including waterline and sewerline (2nd floor, Bio-material Lab)	1	lot													
9	Re-installation of sink including waterline and sewerline (2nd floor, Bio-material Lab)	1	lot													
10	Re-installation of fumehood including electrical, waterline and sewerline (2nd floor, Bio-material Lab)	1	lot													
11	Supply and installation of new Table 1 (2nd floor, Bio-Material Lab)															
11.1	(0.60m (W) x 1.00m (L) x 0.88m (H) wooden modular table, see drawing	1	set													
12	Supply and installation of new Table 2 (2nd floor, Bio-Material Lab)															
12.1	(0.60m (W) x 2.40m (L) x 0.88m (H) wooden modular table, see drawing	1	set													
13	(± 2.00m (H) x ±14.00m (L)) one-way mirror tint (Black film), 3M brand (2nd floor, Mol-bio Lab and Bio-Informatics Lab 1)	28	sq.m.													
14	Close gap wall opening of partition with 12mm thk. ficemboard on both faces with metal stud frading with expanded PU-foam inside (3) locations, and install rubber stopper on sliding windows (2nd floor, Micro Lab (Main-1), Micro Lab 2, Microlab 3)	3	set													
15	Restoration of existing lab table (2nd floor, Micro Lab (Main-1))															
15.1	High pressure lamination surface (same as existing)	2	pc													
15.2	Repair of all defective drawers	1	lot													
15.3	Repainting of whole lab table (inside and outside)	1	lot													
15.4	Adhesive rubber cement	1	gal													
15.5	Ordinary lamination set	1	lot													
15.6	Miscellaneous	1	lot													
16	Repainting of walls and ceiling, 3 coats of latex paint, same color as existing (2nd floor, Micro Lab (Main-1), MicroLab (Hallway), Micro Lab 2, Microlab 3)															
16.1	Interior walls	150	sq.m.													
16.2	Interior ceiling	63	sq.m.													
16.3	Surface preparation	1	lot													
17	Installation of new roller window blinds (2nd floor, Micro Lab (Main-1))															
17.1	(± 1.50m x 2.20m) roller window blinds (polyester) with complete accessories	8	set													
17.2	Removal and disposal of existing old dilapidated window blinds	1	set													
SUB-TOTAL (BMRS)																
IV	[NATAS] Nuclear Analytical Techniques Application Section															
1	Application of 3mm thk. self-leveling epoxy floor (Ground floor, Instrumentation Lab)															
1.1	3mm thk. self-leveling epoxy (Sika) with silica sand	31	sq.m.													
2	Repainting of shoe rack (3) coats of enamel paint (Ground floor, Instrumentation Lab)	1	set													
3	Repainting of existing cabinet / countertop (inside and outside) (Ground floor, Instrumentation Lab)	1	set													
4	Installation of analok aluminum door with complete lockset and accessories on existing cabinet and repainting (IL-2) (Ground floor, Instrumentation Lab)	1	lot													

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(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
5	Fabrication of new wooden shelves with aluminum glass door with complete accessories including painting, semi-ducco (IL-3) (Ground floor, Instrumentation Lab)	1	set													
6	Repainting of interior walls and ceiling (3) coats latex paint including door and window frames (Ground floor, Instrumentation Lab)	80	sq.m.													
7	Repainting and relocation of existing cabinet 3 coats of Q.D.E. paint (Ground floor, Instrumentation Lab)	1	lot													
8	Disposal of existing open shelves and replace with new cabinet with glass door with complete accessories including painting, semi-ducco (IL-1) (Ground floor, Instrumentation Lab)	1	set													
9	Fabrication of new cabinet (1.20m (L) x 0.30m (W) x 1.50m (H)) (B-1) (Ground floor, Balance Room)	1	set													
10	Repainting of existing interior walls and ceiling (3 coats latex paint) including doors and windows (Ground floor, Balance Room)	76	sq.m.													
11	Repainting existing countertop cabinet (inside and outside) (Ground floor, Balance Room)	2	set													
12	Application of 3mm thk. self-leveling epoxy floor (Ground floor, Balance Room)															
12.1	3mm thk. self-leveling epoxy (Sika) with silica sand	17	sq.m.													
13	Removal of existing paint and application of crystalline waterproofing with paint finish (Ground floor, Balance Room)															
13.1	Removal of existing paint (Strip to concrete)	11	sq.m.													
13.2	Paint remover	1	gal													
13.3	Disposal of waste	1	lot													
13.4	Application of crystalline water proofing	11	sq.m.													
14	Repair of existing center lab table (hinges, roller, handle, wood frame, repainting, etc.) (Ground floor, Balance Room)	1	set													
15	Installation of LED fluorescent light and fixture with one-way switch including electrical power supply (Ground floor, Balance Room)	1	set													
16	Removal of headboard and provide 6mm thk. glass with analog aluminum frame and sliding glass door with analog aluminum frame (Ground floor, Balance Room)	1	set													
17	Revarnishing of wooden balance room (Ground floor, Balance Room)	1	lot													
18	Removal and disposal of defective ACU (Ground floor, Balance Room)	1	lot													
19	Supply and installation of new 1.50HP split-type, suspended ceiling mounted, inverter ACU including powerline, sewerline, chipping works, and restoration), Daikin (Ground floor, Balance Room)	1	set													
20	Remove existing wall mounted exhaust fan and cover opening with painted finish both face (Ground floor, Balance Room)	1	lot													
21	Installation of new ceiling-mounted exhaust fan 12" Ø with gravity shutter (Panasonic) including supply of powerline, relocation of switch, uPVC pipes aluminum flexible ducts, hangers, wires, etc.) (Ground floor, Balance Room)	1	set													
22	Replace existing top formica of lab table and painting (Ground floor, XRF Lab 2 (Reporting Room))	1	lot													
23	Repainting of interior walls and ceilings including doors (Ground floor, XRF Lab 2 (Reporting Room))	71	sq.m.													
24	Application of 3mm thk. self-leveling epoxy floor (Ground floor, XRF Lab 2 (Reporting Room))															
24.1	3mm thk. self-leveling epoxy (Sika) with silica sand	15	sq.m.													
25	Repainting of existing countertop cabinet (inside and outside) (Ground floor, XRF Lab 2(Reporting Room))	1	lot													
26	Installation of new ceiling mounted exhaust fan including aluminum ducting 4" Ø, uPVC pipes and hangers, electrical wires, switch, etc. (Ground floor, XRF Lab 2(Reporting Room))	1	lot													
27	Re-varnishing of existing table (Ground floor, XRF Lab 2(Reporting Room))	1	lot													
28	Fabrication of new cabinet (1.20m (L) x 0.30m (W) x 1.50m (H)) same in Instrumentation Lab (Ground floor, XRF Lab 2(Reporting Room))	1	set													

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(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
29	Re-varnishing of existing table (Ground floor, Sample Prep Room)	1	lot													
30	Repainting of interior walls and ceiling (Ground floor, Sample Prep Room)	104	sq.m.													
31	Application of 3mm thk. self-leveling epoxy floor (Ground floor, Sample Prep Room)															
31.1	3mm thk. self-leveling epoxy (Sika) with silica sand	29	sq.m.													
32	Repainting of existing wooden table (Ground floor, Sample Prep Room)	1	set													
33	Rehabilitation of existing lab center table (Ground floor, Sample Prep Room)	2	set													
34	± 14" x 20" x 9" stainless steel sink (Type 304), heavy-duty, goose type faucet stainless steel, Pozzi, with stainless flexible house and angle valve, Pozzi (Ground floor, Sample Prep Room)	2	set													
35	Stainless steel P-trap including restoration (Ground floor, Sample Prep Room)	2	pc													
36	2" PVC pipe and fittings including restoration (Ground floor, Sample Prep Room)	1	lot													
37	Removal of existing tiles and disposal and installation of new 0.60m x 0.60m porcelain tiles including cement adhesive, tile trimmer, grout, etc. at top and bottom surface of lab table (Ground floor, Sample Prep Room)	1	lot													
38	Repainting of table (inside and outside) (Ground floor, Sample Prep Room)	1	lot													
39	Repair/replace damaged cabinet doors and drawers including handle, drawer guide, hinges, etc. (Ground floor, Sample Prep Room)	1	lot													
40	Installation of new 2.50HP split-type ACU, wall mounted inverter type, Daikin including poweline, sewerline, chipping works, and restoration (Ground floor, Sample Prep Room)	1	set													
41	Removal and disposal of existing cabinet (Ground floor, Sample Prep Room)	1	lot													
42	Fabrication of wooden cabinet with aluminum glass sliding door with complete accessories (2.10m x 2.70m x 0.30m) (Ground floor, Sample Prep Room)	1	set													
43	Repainting of existing countertop cabinet (inside and outside) (Ground floor, Sample Prep Room)	1	lot													
44	Removal and disposal of existing lab table (Ground floor, Isotope Hydraulogy Lab)	1	set													
45	Fabrication of new table with cabinet (same as existing), use Ga. 18 pre-painted G.I. sheet and tubular frame, epoxy painted (0.60m x 1.30m x 2.10m) (Ground floor, Isotope Hydraulogy Lab)	1	set													
46	Application of 3mm thk. self-leveling epoxy floor (Ground floor, Isotope Hydraulogy Lab)															
46.1	3mm thk. self-leveling epoxy (Sika) with silica sand	19	sq.m.													
47	Installation of new heavy-duty door lockset (Ground floor, Isotope Hydraulogy Lab)	1	set													
48	Repainting of existing concrete walls and ceiling (Ground floor, Isotope Hydraulogy Lab)															
48.1	Repainting of walls (3 coats of latex paint)	62	sq.m.													
48.2	Repainting of ceiling (3 coats of latex paint)	19	sq.m.													
49	(0.60m (L) x 0.60m (W) x 0.75m (H)) stainless steel table, see drawing (Ground floor, Wet Lab)	1	set													
50	Repainting of existing shelf with 3 coats of enamel paint (Ground floor, Wet Lab)	1	lot													
51	Demolition of existing countertop table (1.40m (L)) and disaposal and restoration of flooring and countertop (Ground floor, Wet Lab)	1	lot													
52	Relocation of existing shelves and repainting (Ground floor, Wet Lab)	1	lot													
53	Fabrication of new cabinet with glass door (1.20m x 1.50m x 0.30m) (WL-1) (Ground floor, Wet Lab)	2	set													
54	Provision of rubber corner guard protection on existing lab table (Ground floor, Wet Lab)	8	set													
55	Application of 3mm thk. self-leveling epoxy floor (Ground floor, Isotope Hydraulogy Lab)															
55.1	3mm thk. self-leveling epoxy (Sika) with silica sand	38	sq.m.													
56	Repainting of existing concrete walls and ceiling (Ground floor, Wet Lab)															
56.1	Repainting of walls (3 coats of latex paint)	93	sq.m.													
56.2	Repainting of ceiling (3 coats of latex paint)	40	sq.m.													

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(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
57	Restoration of existing countertop and flooring (Ground floor, Wet Lab)	1	lot													
58	Relocation of blue cabinet and repainting (Ground floor, Wet Lab)	1	lot													
59	Demolition of (1.20m (L)) of the existing countertop and disposal (Ground floor, Wet Lab)	1	lot													
60	Repair and upgrading of existing island tables, see drawing (Ground floor, Wet Lab)	2	set													
61	Supply and installation of steel cabinet (1.10m (L) x 0.60m (W) x 1.70m (H)) same as existing (Basement floor, Chemical Room)	1	lot													
62	Repair of window gap with concrete and sealant (Basement floor, Chemical Room)	1	lot													
63	Repair of door gap with concrete and sealant (Basement floor, Chemical Room)	1	lot													
64	Chipping and restoration works for the installation of existing fumehood canopy including wall provision (Basement floor, Chemical Room)	1	lot													
65	Provision of new stainless steel sink including supply of waterline and sewerline (Basement floor, Chemical Room)	1	lot													
SUB-TOTAL (NATAS)																
V	[CRS] Chemistry Research Section															
1	Replace existing acoustic ceiling board with 6mm thk. ficem board with 1" x 2" x 0.60mm thk. metal furring frame with metal hangers spaced at 0.40m o.c. with carrying channel (Basement floor, Chem Basement Room #1)															
1.1	Ficem board with metal furring frame and carrying channel	27	sq.m.													
1.2	3 coats of latex paint with surface preparation	27	sq.m.													
2	Painting of existing acoustic ceiling board (Basement floor, Chem Basement Room #2 and #3)															
2.1	Painting of Room #2 ceiling (3 coats) latex paint with surface preparation	29	sq.m.													
2.2	Painting of Room #3 ceiling (3 coats) latex paint with surface preparation	23	sq.m.													
3	Supply and installation of silicon dam guard (Basement floor, Chem Basement Room #3 and #4)															
3.1	Watersilicon dam guard x 15mm thk. (Room #3 and Room #4)	8	l.m.													
4	Application of waterproofing and 50mm thk. expanded polystyrene (EPS) foam insulation at underslab (Basement floor, Chem Basement Room #1)															
4.1	Waterproofing (crystalline)	28	sq.m.													
4.2	50mm thk. expanded polystyrene (EPS foam) insulation including surface preparation	28	sq.m.													
5	Installation of 2" x 3" III.L. steel ceiling frame at 1.20m x 1.20m o.c. (Basement floor, Chem Basement Room #1)															
5.1	2" x 3" x 20' x 1.50mm thk. III.L. tubular pipe	10	pc													
5.2	Welding rod	2	kg													
5.3	Expansion bolt	40	pc													
5.4	8" x 8" x 1/8" thk. steel plate	20	pc													
6	Application of self-leveling epoxy (Ground floor, Alpha Gamma Counting Room)															
6.1	3mm thk. self-leveling epoxy (Sika) with silica sand	46	sq.m.													
7	Restoration of existing ficem board ceiling (Ground floor, Alpha Gamma Counting Room)															
7.1	Ficem board putty	1	lit													
7.2	Assorted sand paper	6	pc													
7.3	Three (3) coats of latex paint with surface preparation	46	sq.m.													
8	Supply of heavy duty stool (Second floor, Chemistry South Wing, Radiation Grafting Wet Laboratory)															
8.1	Laboratory high stool heavy-duty (See plan)	6	pc													
9	Supply and installation of Aluminum partition with sliding door (Second floor, Chemistry South Wing, Pilot Plant (1))															
9.1	(2.95m x 2.80m) analog aluminum partition with 1/4" thk. bronze glass with sliding door (see plan)	2	set													
10	Removal and disposal of existing emergency exist ladder (Second floor, Chemistry South Wing)	1	lot													
11	Installation of new stainless steel emergency ladder (Second floor, Chemistry South Wing)															
11.1	((±) 7.20m x (±) 0.55m x (±) 0.90m) stainless steel emergency ladder complete with guard rail, stair ladder with drop down, wall bracket, etc. (all parts are stainless steel (See plan)	1	set													

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
SUB-TOTAL (CRS)																
VI	[HPRS] Health Physics Research Section															
1	Removal and disposal of all dilapidated laboratory tables (Ground floor, Environmental and Radioactivity Lab)	1	lot													
2	Envilab1 (Phase 1) Stainless steel lab table Ga.16 type 304, mirrorized finish, with stainless steel roller guide, handle, lockset, concealed hinges, tubular pipe support frame, and accessories (sink and faucet are owner supplied) (Ground floor, Environmental and Radioactivity Lab)															
2.1	MAIN LABORATORY table (1.5 L x 1.5M W x 0.90M) - to be replaced with stainless steel	1	set													
2.2	MAIN LABORATORY table (3.0 L x 0.60M W x 0.90M H) - to be replaced with stainless steel	1	set													
2.3	CHEMICAL ROOM sink (2.0 L x 0.60M W x 0.90M H) - to be replaced with stainless steel, sink to be retained	1	set													
2.4	OVEN ROOM sink (2.0 L x 0.60M W x 0.90M H) - to be replaced with stainless steel, sink to be retained	1	set													
2.5	SAMPLE ROOM sink (1.5 L x 0.60M W x 0.90M H) to be replaced with stainless steel, sink to be retained	1	set													
3	Envilab1 (Phase 2) Stainless steel lab table Ga.16 type 304, mirrorized finish, with stainless steel roller guide, handle, lockset, concealed hinges, tubular pipe support frame, and accessories (sink and faucet are owner supplied) (Ground floor, Environmental and Radioactivity Lab)															
3.1	MAIN LABORATORY sink (2.4M L x 1.3M W x 0.90M H) to be replaced with movable stainless steel table, sink will not be replaced. Water lines will be cut and floor surface to be restored and applied with self leveling epoxy	1	set													
3.2	MAIN LABORATORY sink (3.0M L x 0.60M W x 0.90M H) to be replaced with stainless steel, sink to be retained	1	set													
4	Installation of new exterior floor tiles (Ground floor, Environmental and Radioactivity Lab)															
4.1	(0.60m x 0.60m) non-skid exterior heavy-duty porcelain floor tiles (white) including tile cement and grout	49	sq.m.													
4.2	preparation of concrete floor topping including chipping works	46	sq.m.													
5	Installation of new ante-room partition (Ground floor, Environmental and Radioactivity Lab)															
5.1	(4.30m x 2.70m) anolok aluminum fixed partition walls with 1/4" thk. bronze glass and (1.70m x 2.10m) double swing door with complete lockset and accessories at Environmental Lab entrance	1	set													
5.2	(6.00m x 3.00m) anolok aluminum fixed partition walls with 1/4" thk. bronze glass and (1.70m x 2.10m) double swing door with complete lockset and accessories at Environmental Lab entrance	1	set													
6	Repair of leaking roof (Ground floor, Environmental and Radioactivity Lab)															
6.1	Application of silicon sealant and adhesive tape with aluminum foil and embedded wall flashing if necessary	1	set													
7	Remove and disposal of existing 2 units window-type ACU and replace wall opening with 6" thk. CHB with finish plastering on both sides (2nd floor, CBTO National Data Center Room)	1	lot													
8	Demolition of existing countertop cabinet and disposal (2nd floor, CBTO National Data Center Room)	1	lot													
9	Restoration of flooring and walls of countertop cabinet (2nd floor, CBTO National Data Center Room)	1	lot													
10	Demolition of existing drywall partition and replace with 4" thk. CHB with 12mm Ø rebar at 0.60m o.c. III.w. with plastering on both face and including painting works (2nd floor, CBTO National Data Center Room)															
10.1	4" thk CHB (350 psi)	60	pc													
10.2	12mm Ø x 6.00m def. bar	3	pc													
10.3	Portland cement	8	bag													
10.4	White sand	1.5	cu.m.													
10.5	Ga. 16 G.I. tie wire	1	kg													
10.6	ABC skimcoat	2	bag													
10.7	Assorted sand paper	5	pc													
10.8	Flat latex paint (3 coats)	1	gal													
10.8	Gloss latex paint (3 coats)	1	gal													
10.9	Chipping works and waste disposal	1	lot													
10.10	Demolition and disposal of countertop and drywall partition	1	lot													
10.11	Re-installation of aluminum door	1	lot													
10.12	Restoration of floor and walling countertop	1	lot													
SUB-TOTAL (HPRS)																
VII	[ESS] Engineering Services Section															

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	Demolition of existing wooden beam header of stair and replace with 6.00mm thk. ficem board with metal stud frame at 0.60m o.c. b.w. (Ground floor, ARC Hallway)															
1.1	1.22m x 2.44m x 6.00mm thk. ficem board	2	pc													
1.2	50mm x 100mm x 3.00m x 0.60mm thk. metal stud	8	pc													
1.3	Aluminum blind rivets	1	box													
1.4	Tox with screw	20	pc													
1.5	ABC skim coat	1	bag													
1.6	Assorted sand paper	5	pc													
1.7	Latex paint (3 coats)	1	gal													
1.8	Demolition and disposal of waste	1	lot													
2	Repainting of hallway concrete walls including columns (both side) with 3 coats latex paint (same as existing) (Ground floor, ARC Hallway)															
2.1	Repainting of concrete walls (3 coats) latex paint including surface preparation and cleaning of walls	429	sq.m.													
3	Replace old and dilapidated acoustic board ceiling (Ground floor, ARC Hallway)															
3.1	(0.60m x 0.60m x 12mm thk.) acoustic board fissured finish "Armstrong brand" same as existing	50	pc													
4	Remove and replace damage stair nosing and floor tiles (Ground floor, ARC Hallway)(Exterior)															
4.1	2" solid brass stair nosing x 8' including epoxy adhesive, tox with brass screw	10	pcs													
4.2	(0.60m x 0.60m) non-skid exterior porcelain floor tiles including surface preparation and adhesive	20	sq.m.													
4.3	Remove and disposal of damage tiles	1	lot													
5	Remove and replace damaged floor tiles along hallway (Ground floor, ARC Hallway)															
5.1	(0.60m x 0.60m) porcelain floor tiles (same as existing) including surface preparation and adhesive	10	pc													
5.2	Remove and disposal of damaged tiles	1	lot													
	SUB-TOTAL (ESS)															
	SUB-TOTAL (CIVILWORKS)															
III	MECHANICAL WORKS (INCLUDING ELECTRICAL SUPPLY LINE)															
III.1	APPLIED PHYSICS RESEARCH SECTION (APRS)															
	APRS Neutron Lab., Basement, ARC Building															
III.1.1	Supply and installation of 3 TR (~4 hp) air conditioner, split type, ceiling-mounted, including hangers, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function (has existing wall slot opening for copper tubing, electrical line and drain pipe)	1	set													
III.1.2	Removal and disposal of existing 2 TR air conditioner (Alenaire brand), split type, floor-mounted	1	lot													
	- Electrical Materials for supply line:															
1	Enclosed circuit breaker for DIN Rail with 32A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	1	pc.													
3	RSC Elbow, 15mm diameter	2	pcs.													
4	Locknut and bushing, 15mm diameter	4	pcs.													
5	5.5mm ² THHN/THWN wire	6	m													
6	2.0mm ² THHN/THWN wire	3	m													
7	4" octagonal box with cover	1	pc.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
	APRS Stock Room C, Basement, ARC Building															
III.1.3	Supply and installation of 2.0 hp air conditioner, window type, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function	1	unit													
	APRS TXRF and XRD Room - Dark Room, Ground Floor, ARC Building															
III.1.4	Supply and installation of 1.0 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function	1	set													
III.1.5	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit of 1.0 hp air conditioner	1	lot													
	- Electrical Materials for supply line:															
1	Enclosed circuit breaker for DIN Rail with 20A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	6	pcs.													
3	RSC Elbow, 15mm diameter	4	pcs.													
4	Locknut and bushing, 15mm diameter	4	pcs.													

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
5	5.5mm² THHN/THWN wire	20	m													
6	2.0mm² THHN/THWN wire	10	m													
7	4" octagonal box with cover	1	pc.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
SUB-TOTAL (III.1)																
III.2	BIOMEDICAL RESEARCH SECTION (BMRS)															
	Molecular Biology Lab, 2nd Floor, ARC Building															
III.2.1	Supply and installation of 2.5 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function at the MolBio Lab Room 3	1	set													
III.2.2	Supply and installation of 2" x 2" x 1.5mm thk. square tubular welded with base plates on both ends and bolted between column posts for mounting support of wall-mounted 2.5 hp air conditioner at MolBio Lab Room 3	1	lot													
III.2.3	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit of 2.5 hp air conditioner at the MolBio Lab Room 3	1	lot													
III.2.4	Concreting/plastering of existing wall slot for window type air conditioner at MolBio Lab Room 3	1	lot													
	- Electrical Materials for supply line:															
1	Enclosed circuit breaker for DIN Rail with 32A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	2	pcs.													
3	RSC Elbow, 15mm diameter	2	pcs.													
4	Locknut and bushing, 15mm diameter	2	pcs.													
5	5.5mm² THHN/THWN wire	12	m													
6	2.0mm² THHN/THWN wire	6	m													
7	4" octagonal box with cover	1	pc.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
SUB-TOTAL (III.2)																
III.3	NUCLEAR ANALYTICAL TECHNIQUES APPLICATION SECTION (NATAS)															
	NATAS Balance Room, Ground Floor, ARC Building															
III.3.1	Removal and disposal of existing 3 TR air conditioner (Everest brand), split type, ceiling-mounted ACU	1	lot													
III.3.2	Supply and installation of 2.0 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function	1	set													
III.3.3	Removal of existing wall-mounted exhaust fan including concreting and plastering of wall slot with provision of block out for 4" Ø PVC pipe wall stub out of one (1) new ceiling-mounted exhaust fan	1	lot													
III.3.4	Supply and installation of 150 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø round flexible aluminum duct, 4" Ø PVC pipe wall stub-out, hangers and stainless steel vent cover	1	set													
	- Electrical Materials for supply line:															
1	Male plug, heavy duty	1.00	pc.													
2	3.5mm² THHN/THWN wire	12.00	m													
3	One- gang switch, single pole, wide series	1.00	pc.													
4	Surface mounted utility box, aluminum die-cast (115mmx70mmx50mm)	2.00	pcs.													
5	Convenience outlet, single, wide series	1.00	pc.													
6	Rigid Steel Conduit, 15mm diameter	4.00	pcs.													
7	RSC Elbow, 15mm diameter	6.00	pcs.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1.00	lot													
	NATAS XRF Lab 2, Ground Floor, ARC Building															
III.3.5	Supply and installation of 150 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø round flexible aluminum duct, 4" Ø PVC pipe wall stub-out, hangers and stainless steel vent cover	1	set													
III.3.6	Removal of existing wall-mounted exhaust fan including concreting and plastering of wall slot with provision of block out for 4" Ø PVC pipe wall stub out of one (1) new ceiling-mounted exhaust fan	1	lot													
	- Electrical Materials for supply line:															
1	male plug, heavy duty	1.00	pc.													
2	3.5mm² THHN/THWN wire	20.00	m													
3	One- gang switch, single pole, wide series	1.00	pc.													
4	Surface mounted utility box, aluminum die-cast (115mmx70mmx50mm)	2.00	pcs.													
5	Convenience outlet, single, wide series	1.00	pc.													
6	Rigid Steel Conduit, 15mm diameter	3.00	pcs.													
7	RSC Elbow, 15mm diameter	3.00	pcs.													

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1.00	lot													
NATAS Sample Prep Room, Ground Floor, ARC Building																
III.3.7	Supply and installation of 3 TR (~4.0 hp) air conditioner, split type, ceiling-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function	1	set													
III.3.8	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit 3.0 TR (~4.0 hp) air conditioner	1	lot													
- Electrical Materials for supply line:																
1	Enclosed circuit breaker for DIN Rail with 32A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1.00	set													
2	Rigid Steel Conduit, 15mm diameter	2.00	pcs.													
3	RSC Elbow, 15mm diameter	2.00	pcs.													
4	Locknut and bushing, 15mm diameter	4.00	pcs.													
5	5.5mm ² THHN/THWN wire	12.00	m													
6	2.0mm ² THHN/THWN wire	6.00	m													
7	4" octagonal box with cover	1.00	pc.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1.00	lot													
NATAS Chemical Room, Basement Floor, ARC Building																
III.3.9	Removal of existing 1.0 hp air conditioner, split type, wall mounted and reinstallation at NATAS Staff Room at Ground Floor with new copper tubing, insulation and pvc drain pipe	1	lot													
III.3.10	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit 1.0 hp air conditioner	1	lot													
- Electrical Materials for supply line:																
1	Enclosed circuit breaker for DIN Rail with 20A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand , 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	2	pcs.													
3	RSC Elbow, 15mm diameter	2	pcs.													
4	Locknut and bushing, 15mm diameter	4	pcs.													
5	5.5mm ² THHN/THWN wire	12	m													
6	2.0mm ² THHN/THWN wire	6	m													
7	4" octagonal box with cover	1	pc.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.3.11	Supply and installation of three (3) units - 150 cfm exhaust fans, ceiling-mounted, 12" grille with 4" Ø PVC pipe exhaust stack (painted with black epoxy paint), 4" Ø PVC tees and elbows (45° / 90°), ceiling hangers, wall clamps and weather cap with wire mesh	1	lot													
- Electrical Materials for supply line:																
1	Convenience outlet with ground, wide series	3	pcs.													
2	Male plug, with ground terminal	3	pcs.													
3	Surface mounted utility box, aluminum die-cast (115mmx70mmx50mm)	3	pcs.													
4	Rigid Steel Conduit, 15mm diameter	1	pc.													
5	RSC Elbow, 15mm diameter	4	pcs.													
6	Rigid Steel Conduit, 20mm diameter	3	pcs.													
7	RSC Elbow, 20mm diameter	2	pcs.													
8	Locknut and bushing, 20mm diameter	5	pcs.													
9	4" octagonal box with cover	1	pc.													
10	4 11/16 x 4 11/16 square box	2	pcs.													
11	Miscellaneous (RSC clamps, double screws, tox)	1	lot													
- Control Box:																
1	20A, 2Pole MCB Circuit Breaker, Schneider Electric	1	set													
2	Magnetic Contactor, 240V, 4.5KW, 18A	3	sets													
3	Timer Switch, 240V, 60Hz	3	sets													
4	Pilot lights, heavy duty (indicator lights, Green, Red and Yellow), LED, 230VAC	3	sets													
5	Metal Enclosure Panel Box, weatherproof, gray, wall mounted, with metal hinge, detachable base plate, high quality lock, 400mm (Length) x 300mm (Width), 160mm (Depth)	1	set													
6	Miscellaneous and consumables (DIN, screws,toxes, electrical tape)	1	lot													
SUB-TOTAL (III.3)																
III.4	CHEMISTRY RESEARCH SECTION (CRS)															
	RBA Lab 1, Ground Floor, ARC Building															

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
III.4.1	Supply and installation of 1.0 hp air conditioner, window type, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function at Prep. Room and Bioaccumulation Room (both rooms have existing wall slots for window type air conditioners)	2	units													
MRM Lab, 2nd Floor, ARC Building																
III.4.2	Supply and installation of 2.0 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function at Main Lab Area	1	set													
III.4.3	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit of 2.0 hp air conditioner at Main Lab Area	1	lot													
- Electrical Materials for supply line:																
1	Enclosed circuit breaker for DIN Rail with 32A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	11	pcs.													
3	RSC Elbow, 15mm diameter	3	pcs.													
4	Locknut and bushing, 15mm diameter	6	pcs.													
5	5.5mm ² THHN/THWN wire	66	m													
6	2.0mm ² THHN/THWN wire	33	m													
7	4" octagonal box with cover	2	pcs.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
SUB-TOTAL (III.4)																
III.5	HEALTH PHYSICS RESEARCH SECTION (HPRS)															
Envilab 1 (Phase 1)																
III.5.1	Supply and installation of 3 TR (~4 hp) air conditioner, split type, floor-mounted, inverter, with built-in automatic timer function at the Instrument/HPGe Room	1	set													
III.5.2	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit 3 TR (~4 hp) air conditioner	1	lot													
- Electrical Materials for supply line:																
1	Enclosed circuit breaker for DIN Rail with 32A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	3	pcs.													
3	RSC Elbow, 15mm diameter	2	pcs.													
4	Locknut and bushing, 15mm diameter	4	pcs.													
5	8.0mm ² THHN/THWN wire	18	m													
6	3.5mm ² THHN/THWN wire	9	m													
7	4" octagonal box with cover	1	pc.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.5.3	Supply and installation of 2.5 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function at the Main Laboratory Area	2	sets													
III.5.4	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 2 units 2.5 hp air conditioner	1	lot													
- Electrical Materials for supply line:																
1	Enclosed circuit breaker for DIN Rail with 32A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	2	sets													
2	Rigid Steel Conduit, 15mm diameter	18	pcs.													
3	RSC Elbow, 15mm diameter	8	pcs.													
4	Locknut and bushing, 15mm diameter	16	pcs.													
5	5.5mm ² THHN/THWN wire	104	m													
6	2.0mm ² THHN/THWN wire	52	m													
7	4" octagonal box with cover	6	pcs.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.5.5	Supply and installation of 1.0 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function at the Sample Room	1	set													
III.5.6	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit 1.0 hp air conditioner	1	lot													
- Electrical Materials for supply line:																
1	Enclosed circuit breaker for DIN Rail with 20A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	12	pcs.													
3	RSC Elbow, 15mm diameter	2	pcs.													
4	Locknut and bushing, 15mm diameter	10	pcs.													
5	5.5mm ² THHN/THWN wire	72	m													

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
6	2.0mm² THHN/THWN wire	36	m													
7	4" octagonal box with cover	4	pcs.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.5.7	Supply and installation of 1.5 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function at the Oven Room	1	set													
III.5.8	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit 1.5 hp air conditioner	1	lot													
	- Electrical Materials for supply line:															
1	Enclosed circuit breaker for DIN Rail with 20A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand , 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	14	pcs.													
3	RSC Elbow, 15mm diameter	2	pcs.													
4	Locknut and bushing, 15mm diameter	10	pcs.													
5	5.5mm² THHN/THWN wire	84	m													
6	2.0mm² THHN/THWN wire	42	m													
7	4" octagonal box with cover	4	pcs.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.5.9	Supply and installation of 1.5 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function at the Chemical Room	1	set													
III.5.10	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit 1.5 hp air conditioner	1	lot													
	- Electrical Materials for supply line:															
1	Enclosed circuit breaker for DIN Rail with 20A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand , 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	7	pcs.													
3	RSC Elbow, 15mm diameter	3	pcs.													
4	Locknut and bushing, 15mm diameter	6	pcs.													
5	5.5mm² THHN/THWN wire	42	m													
6	2.0mm² THHN/THWN wire	21	m													
7	4" octagonal box with cover	2	pcs.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.5.11	Supply and installation of 150 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø round flexible aluminum duct, 4" Ø PVC pipe wall stub-out, hangers and stainless steel vent cover at Main Laboratory Area	3	sets													
III.5.12	Provision of wall slot opening for three (3) - 4" Ø PVC pipe wall stub out (breaking of concrete, restoration & painting) at Main Laboratory Area	1	lot													
	- Electrical Materials for supply line:															
1	Rigid Steel Conduit, 15mm diameter	7	pcs.													
2	RSC Elbow, 15mm diameter	5	pcs.													
3	Locknut and bushing, 15mm diameter	12	pcs.													
4	3.5mm² THHN/THWN wire	48	m													
5	2.0mm² THHN/THWN wire	24	m													
6	4" octagonal box with cover	4	pcs.													
7	4 11/16 Square Box with cover	1	pc.													
8	3-gang switch with cover. Wide series	1	set													
9	2"x4" utility box	1	pc.													
10	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
	Envilab 1 (Phase 2)															
III.5.13	Supply and installation of 150 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø round flexible aluminum duct, 4" Ø PVC pipe wall stub-out, hangers and stainless steel vent cover at Main Laboratory Area	3	sets													
III.5.14	Provision of wall slot opening for three (3) - 4" Ø PVC wall stub out (breaking of concrete, restoration & painting) at Main Laboratory Area	1	lot													
	- Electrical Materials for supply line:															
1	Rigid Steel Conduit, 15mm diameter	10	pcs.													
2	RSC Elbow, 15mm diameter	3	pcs.													
3	Locknut and bushing, 15mm diameter	12	pcs.													
4	3.5mm² THHN/THWN wire	60	m													
5	2.0mm² THHN/THWN wire	30	m													
6	4" octagonal box with cover	5	pcs.													
7	4 11/16 Square Box with cover	1	pc.													
8	3-gang switch with cover. Wide series	1	set													
9	2"x4" utility box	1	pc.													

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
10	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.5.15	Supply and installation of 2.5 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function at the Main Laboratory Area	2	sets													
III.5.16	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 2 units 2.5 hp air conditioner	1	lot													
	- Electrical Materials for supply line:															
1	Enclosed circuit breaker for DIN Rail with 32A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	5	pcs.													
3	RSC Elbow, 15mm diameter	2	pcs.													
4	Locknut and bushing, 15mm diameter	6	pcs.													
5	5.5mm ² THHN/THWN wire	30	m													
6	2.0mm ² THHN/THWN wire	15	m													
7	4" octagonal box with cover	2	pcs.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.5.17	Relocation of existing ACCU of 2.5 hp Carrier brand, split type, wall-mounted located at the Main Laboratory Area	1	lot													
III.5.18	Supply and installation of laboratory fumehood for perchloric acid standard by-pass size: 59" W x 30" D x 96" H (including cabinet), Interior: S/S 316 Gauge 18 w/ epoxy paint, Exterior: acid and fire resistant fiberglass, built-in corrosion resistant motor/blower assembly w/ 3/4 hp explosion proof motor, 1725 rpm, 230 V w/ corrosion resistant fiberglass motor housing and epoxy painted S/S impeller w/ epoxy painted metal stand and bracket, w/ adjustable baffle made of S/S 316, w/ acid resistant colored fiberglass dash board, and inside/outside body painted w/ epoxy paint. Ducting: 8" acid resistant fiberglass material complete with elbows, coupling, fitting and weather cap good for one (1) storey building. Furnished w/ remote controlled service fixtures for gas and water, wash down system and drainage through, 1 - vapor-proof lamp assembly (220V), 1 - motor (magnetic type switch), light switch, 2 - electrical outlet 220V, 1 - 4 door wooden base cabinet with rubber vinyl base	1	lot													
	National Data Center Room															
III.5.19	Supply and installation of 1.5 hp air conditioner, split type, wall-mounted, inverter, 230 V, 60 Hz, single phase, with built-in automatic timer function	1	set													
III.5.20	Provision of wall slot opening for copper tubing, electrical line and drain pipe (breaking of concrete, plastering and painting) for 1 unit 1.5 hp air conditioner	1	lot													
	- Electrical Materials for supply line:															
1	Enclosed circuit breaker for DIN Rail with 20A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand , 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2	Rigid Steel Conduit, 15mm diameter	12	pcs.													
3	RSC Elbow, 15mm diameter	4	pcs.													
4	Locknut and bushing, 15mm diameter	12	pcs.													
5	5.5mm ² THHN/THWN wire	72	m													
6	2.0mm ² THHN/THWN wire	36	m													
7	4" octagonal box with cover	5	pcs.													
8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1	lot													
III.5.21	Concreting/plastering of two (2) vacated wall slots of window type air conditioners at NDC	1	lot													
III.5.22	Supply and installation of 20 L/day dehumidifier with built-in automatic timer function, humidity control, soft touch panel, flexible drainage system , 430W, 2.3 A 230 V, 60 Hz, single phase	2	pcs													
	SUB-TOTAL (III.5)															
	SUB-TOTAL (MECHANICAL WORKS)															
IV	ELECTRICAL WORKS															
1	[NROS] Nuclear Reactor Operations Section															
1	Reactor Building															
1.1	Supply and Installation of Panelboards															
1.1.1	Panelboard EMDP	1	lot													
1.1.2	Panelboard EDP1	1	lot													
1.1.3	Panelboard EDP3	1	lot													
1.1.4	Panelboard EDP4	1	lot													
1.1.5	Panelboard EDP5	1	lot													
1.1.6	Panelboard EDP CAS	1	lot													
1.2	Supply and Installation of Wires and Cables															
1.2.1	Generator to Transfer Switch (ATS)															
1.2.2	250mm ² THHN/THWN Cable	45	m													

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.2.3	60mm2 THHN/THWN Cable (Ground wire)	15	m													
1.3	Main Distribution Panel (MDP) to Automatic Transfer Switch (ATS)															
1.3.1	250mm2 THHN/THWN Cable	30	m													
1.3.2	60mm2 THHN/THWN Cable (Ground wire)	10	m													
1.4	Automatic Transfer Switch (ATS) to Emergency Main Distribution Panel (EMDP)															
1.4.1	250mm2 THHN/THWN Cable	3	m													
1.4.2	60mm2 THHN/THWN Cable (Ground wire)	1	m													
1.5	EMDP Dranch Circuit 1 to Emergency Distribution Panel 1 (EDP 1)															
1.5.1	38mm2 THHN/THWN Cable	57	m													
1.5.2	14mm2 THHN/THWN Cable (Ground wire)	19	m													
1.6	EMDP Branch Circuit 2 to Emergency Distribution Panel CAS (EDP CAS)															
1.6.1	38mm2 THHN/THWN Cable	120	m													
1.6.2	14mm2 THHN/THWN Cable (Ground wire)	40	m													
1.7	EMDP Branch Circuit 3 to Emergency Distribution Panel 3 (EDP 3)															
1.7.1	38mm2 THHN/THWN Cable	177	m													
1.7.2	14mm2 THHN/THWN Cable (Ground wire)	59	m													
1.8	EMDP Dranch Circuit 4 to Emergency DistriDution Panel 5 (EDP 5)															
1.8.1	38mm2 THHN/THWN Cable	39	m													
1.8.2	14mm2 THHN/THWN Cable (Ground wire)	13	m													
1.9	EMDP Branch Circuit 5 to Emergency Distribution Panel 4 (EDP 4)															
1.9.1	22mm2 THHN/THWN Cable	51	m													
1.9.2	8.0mm2 THHN/THWN wires (Ground wire)	17	m													
1.10	Supply and installation of Emergency Lights at NROS Hallway, NROS Hallway Exctension, NROS Office and NROS Electrical Room.															
1.10.1	Automatic Emergency Lights, with Lithium Ion Phosphate Battery, 2x3W, 12VDC	8	sets													
1.10.2	15mm diameter RSC conduit	17	pcs.													
1.10.3	2.0mm2 THHN/THWN wires	1	roll													
1.10.4	Miscellaneous (conduit clamps, screws and other consumables)	1	lot													
2	Supply and installation of lighting and power distribution circuits for NROS old SSDL rooms (Classroom/NuSIM) (Basement floor, Classroom (formerly old SSDL Rooms)/NuSIM)															
2.1	Fluorescent fixture, Double, 18W, 240V, LED, T8, 1200mm x 600mm. Mirorized with louver	18	sets													
2.2	Junction box, metallic, octagonal with cover	24	pcs.													
2.3	2-Gang Switch, wide series	3	sets													
2.4	Surface mounted utility box, aluminum die-cast (115mmx70mmx50mm)	21	pcs.													
2.5	Convenience outlets with ground and cover, duplex, wide series	18	sets													
2.6	Rigid steel conduit, 15mm diameter	50	pcs.													
2.7	15mmØ RSC elbow	30	pcs.													
2.8	15mmØ RSC locknut and bushing	48	pcs.													
2.9	Condulet, LB, 15mmØ	17	pcs.													
2.10	3.5mm² THHN/THWN wire	3	rolls													
2.11	2.0mm² THHN/THWN wire	1	roll													
2.12	Miscellaneous (conduit clamps, double screws, consumables)	1	lot													
SUB-TOTAL (NROS)																
II	[BMRS] Biomedical Research Section															
1	Relocation of Fumehood supply line (Second Floor, BMRS Bio-Material Lab)															
1.1	Surface mounted utility box, aluminum die-cast (115mmx70mmx50mm)	1	pc.													
1.2	Junction box, metallic, octagonal with cover	1	pc.													
1.3	15mmØ RSC pipe	1	pc.													
1.4	15mmØ RSC elbow	1	pc.													
1.5	15mmØ RSC locknut and bushing	2	pcs.													
1.6	Miscellaneous (conduit clamps, screw and tox)	1	lot													
2	Conversion of fluorescent tube from T5 to T8 inside the Biomed Research Section office rooms, laboratory, pantry and other areas as indicated in the electrical layout. Work includes rewiring and installation of new fluorescent holders and fluorescent tubes. Note the existing fluorescent fixture casing is 1200mm x 600mm with double fluorescent tubes.															
2.1	Fluorescent tube, T8, 18W LED, Polycarbonate housing	70	pcs.													
2.2	Fluorescent holders	70	sets													
2.3	Miscellaneous (wires and other consumables)	1	lot													
2.4	Supply and installation of additional Fluorescent Fixture, Double, T8, 18W, LED, 1200mm x 600mm	6	sets													

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2.5	Relocated of 2 sets Fluorescent Fixtures	1	lot													
2.6	Miscellaneous (consumables such as wires,screws, conduit clamps/supports)	1	lot													
SUB-TOTAL																
III [NATAS] Nuclear Analytical Techniques Application Section																
1	Supply and installation of fluorescent fixture with supply line and switch (Ground floor, Balance Room)															
1.1	Fluorescent Fixture, Industrial type, single, T8, 18W, LED	1.00	set													
1.2	3.5mm ² THHN/THWN wire	2.00	m													
1.3	One- gang switch, single pole, wide series	1.00	pc.													
1.4	Surface mounted utility box, aluminum die-cast (115mmx70mmx50mm)	2.00	pcs.													
1.5	Convenience outlet, single, wide series	1.00	pc.													
1.6	Flexible metallic hose, 15mm diameter	1.00	m													
1.7	cabl gland, 15mm diameter	2.00	pcs.													
1.8	Miscellaneous and consumables (double screw conduit clamps, toxes, screws, electrical tape)	1.00	lot													
SUB-TOTAL (NATAS)																
IV [CRS] Chemistry Research Section																
1	Conversion of fluorescent tube from T5 to T8 inside the Chemistry Research Section office rooms, laboratory, pantry and other areas as indicated in the electrical layout. Work includes rewiring and installation of new fluorescent holders and fluorescent tubes. Note the existing fluorescent fixture casing is 1200mm x 600mm with double fluorescent tubes.															
1.1	Fluorescent tube, T8, 18W LED, Polycarbonate housing	88	pcs.													
1.2	Fluorescent holders	88	sets													
1.3	Miscellaneous (wires and other consumables)	1	lot													
2	Supply and installation of Enclosed Circuit Breaker (ECB) with 30A, 2P, 240V Circuit Breaker, Bolt-on type for Split Type aircon at the Chemistry Research Section Pilot Laboratory															
2.1	Enclosed circuit breaker for DIN Rail with 32A, 2P, 230V Bolt-on type circuit breaker (MCB), Schneider Electric Brand, 15.2cm (L) x 10.1cm (W) x 23cm (H)	1	set													
2.2	15mmØ RSC pipe	3	pcs.													
2.3	15mmØ RSC elbow	5	pcs.													
2.4	15mmØ RSC locknut and bushing	12	pcs.													
2.5	Junction box, metallic, octagonal with cover	3	pcs.													
SUB-TOTAL (CRS)																
V [HPRS] Health Physics Research Section																
1	Supply and installation of additional Panelboard for ENVILAB1 Phase 1 including its feederline															
1.1	Panelboard with: 1 set 50AT 3P, 240V, 22KAIC, Main Circuit Breaker, THQC Branches: 2 sets 40AT, 2P, 240V Circuit Breaker, 22KAIC, Bolt-on type, G.E. THQC 2 sets 30AT, 2P, 240V CB, 22KAIC, Bolt-on type, THQC 3 sets 20AT, 2P, 240V CB, 22KAIC, Bolt-on type, THQC	1	lot													
1.2	Rigid Steel Conduit (RSC), 25mm diameter	12	pcs.													
1.3	25mmØ RSC elbow	6	pcs.													
1.4	25mmØ RSC locknut and bushing	10	pcs.													
1.5	Pullbox, 150mm x 1500mm x 100mm, pre-painted and with cover	4	pcs.													
1.6	14mm ² THHN/THWN cable	153	m													
1.7	5.5mm ² THHN/THWN wire	51	m													
1.8	Miscellaneous (Conduit supports, clamps, consumables, etc)	1	lot													
SUB-TOTAL (HPRS)																
VI [ESS] Engineering Services Section																
1	Upgrading of Panelboard Housing at Flagpole Area															
1.1	Site Works															
1.1.1	demolition and chipping of existing reinforced concrete roof slab of existing panel board and disposal waste	1	lot													
1.1.2	Chipping and removal of existing steel door, steel door, concrete wall restoration and disposal	1	lot													
1.2	Reinforced Concrete Works															
1.2.1	Concrete (1:2:3 mixture)	0.84	cu.m.													
1.2.2	12mm Ø x 6.00m def. bar	16	pcs													
1.2.3	10mm Ø x 6.00m def. bar	2	pcs													
1.2.4	Ga.16 G.I. wire	2	kgs													
1.2.5	3/4" thk. x 4' x 8' Phenolic board	2	pcs													
1.2.6	Assorted cocolumber	30	bd.ft.													
1.2.7	C.W. nail	2	kgs													
1.2.8	concrete nail	1	kgs													
1.2.9	Waterproofing (thoroplug)	1	gal													

ITEM NO.	ITEM/DESCRIPTION	QTY	UNIT	MATERIAL COST		LABOR COST		ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)					(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.3	Masonry Works															
1.3.1	Concrete plastering with wash-out pebbles (same as existing)	8	sq.m.													
1.4	Metal Works															
1.4.1	(0.70m x 1.80m) Ga.16 metal louver door with Ga.16 metal metal door with 3 coars of epoxy paint	1	set													
1.4.2	Stainless steel door lockset (Yale)	1	set													
1.4.3	3 1/2" x 3 1/2" stainless steel hinges (Stanley)	4	pcs													
1.5	Electrical Works															
1.5.1	Removal and installation of new panel board															
1.5.1.1	Panelboard with: 1 set 125AT 3P, 240V, 210KAIC, Main Circuit Breaker, MCCB, TQD Branches: 1 set 70AT, 3P, 240V Circuit Breaker, 22KAIC, Bolt-on type, G.E. THQC 6 sets 15AT, 2P, 240V CB, 10KAIC, Bolt-on type, TQC 6 sets 20AT, 2P, 240V CB, 10KAIC, Bolt-on type, TQC 4 sets 30AT, 2P, 240V CB, 10KAIC, Bolt-on type, TQC 2 sets 40AT, 2P, 240V CB, 10KAIC, Bolt-on type, TQC	1	lot													
1.5.1.2	Miscellaneous: PVC pipes, metal conduits, fittings, pullboxes, and solderless connectors	1	lot													
1.5.1.3	Miscellaneous (assorted wires and cables for terminations of existing distribution circuits and extension of feederlines)	1	lot													
1.5.2	Provision and installation of Main MCCB rated 125AT, 3P, 250V with enclosure located at the electrical room, basement of ARC bldg, left wing for Panelboard at Flagpole Area.															
1.5.2.1	ECB with 125AT, 3P, 250V, Schneider Easy Pact CB	1	set													
1.5.2.2	38mm ² THHN/THWN cables	10	m													
1.5.2.3	22mm ² THHN/THWN ground cable, Green color	3	m													
1.5.2.4	50mm ^Ø rigid steel conduit	2	pcs.													
1.5.2.5	50mm ^Ø elbow	2	pcs.													
1.5.2.6	Miscellaneous (consumables such as screws, conduit clamps/supports)	1	lot													
2	Rehabilitation of fluorescent lighting at the Basement, left wing of ARC Building															
2.1	Fluorescent Fixture, Double, 18W, 240V, LED, 1.2m, T8, Clear and Polycarbonate Cover, IP54 with mounting clip	54	sets													
2.2	Three Way Switch	4	sets													
2.3	Four Way Switch	2	sets													
2.4	15mm ^Ø RSC pipe	81	pcs.													
2.5	15mm ^Ø RSC elbow	51	pcs.													
2.6	15mm ^Ø RSC locknut and bushing	105	pcs.													
2.7	Junction box, metallic, octagonal with cover	33	pcs.													
2.8	Utility box, metallic with cover, 2"x4"	6	pcs.													
2.9	Condulet, LB, 15mm ^Ø	48	pcs.													
2.10	3.5mm ² THHN/THWN wire	5	rolls													
2.11	Miscellaneous (conduit clamps, screws, consumables)	1	lot													
3	Replacement of Hallway Pinlights															
3.1	FSL LED Ultra Thin Round Panel (Daylight), 18W (ground floor, right wing)	28	sets													
3.2	FSL LED Ultra Thin Round Panel (Daylight), 18W (second floor, right wing)	32	sets													
3.3	FSL LED Ultra Thin Round Panel (Daylight), 18W (basement floor, right wing)	19	sets													
4	Supply and installation of new main Air Circuit Breaker for ARC Building															
4.1	Dismantling of the existing Line Side Cables and Load Side Cables.	1	lot													
4.2	Dismantling of existing NEMA enclosure with existing main Air Circuit Breaker	1	lot													
4.3	Supply and installation of new NEMA enclosure with the new Main Air Circuit Breaker, 2000AT, 2000AF, 230V, 3 Phase, Drawout Type, ACB LSIG NEMA 12 - Electrically Operated with: 1). Pilot Light, 230V AC (Green), 2). Pilot Light, 230V AC (Red), 3). Power Meter (METSE PM2120), 4). 2000/5A CT (Donut Type)	1	assy													
4.4	Retermination of existing cables, Lines and Load Sides	1	lot													
4.5	Testing and Commissioning	1	lot													
4.6	Contingencies, Miscellaneous and Consumables	1	lot													
4.7	Coordination with MERALCO (Leg Work)	1	lot													
	SUB-TOTAL (ESS)															
	SUB-TOTAL (ELECTRICAL WORKS)															
	GRAND TOTAL															