PROJECT : Upgrading of ARC Building (CY 2019) - Rebid

LOCATION: PNRI Compound, Commonwealth Avenue, Diliman, Quezon City

OWNER : Philippine Nuclear Research Institute (PNRI)
SUBJECT : DETAILED COST ESTIMATE

				MATERIA	L COST	LABOR	COST	ESTIMATED	MARK	-UPS IN PER	RCENT	TOTA	L MARK-UP	
Item No.	ITEM/DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	DIRECT COST	CONT.	ОСМ	PROFIT	%	VALUE	VAT
Α	GENERAL REQUIREMENTS													
1	Mobilization/Demobilization	1	lot											
2	Bonds/Insurance	1	lot											
3	Temporary Facilities	1	lot											
4	As-Built plan	1	lot											
5	Project Billboard	1	lot											
	Sub-total													
В	ARCHITECTURAL AND CIVIL WORKS													
B.1	2nd FLOOR UPGRADING OF BMRS LAB & OFFICE													
B.1.1	Fabrication and installation of the following shelves,													
	tables, benches and cabinets													
1	Cabinet (A-1) along the Hallway (0.50m x 5.00m x 2.50m)	1	set											
	wooden cabinet w/ aluminum glass door													
2	Cabinet (A-2) (0.50m x 0.60m x 1.80m) wooden	1	set											
	cabinet with aluminum glass door													
3	Cabinet (A-3) (0.60m x 0.30m x 1.00m) wooden	1	set											
	cabinet with sliding glass													
4	Cabinet (A-4) (0.30m x 2.00m x 1.00m) wooden	1	set											
	cabinet with sliding glass													
5	Open shelves - 1 (A-5) (0.60m x 0.60m x 1.20m)	1	set											
	wooden shelves													
6	Open shelves -2 (A-5) (0.60m x 0.60m x 1.20m)	1	set											
	wooden shelves													
7	Cabinet (A-6) (0.6m x 0.60m x 1.00m) wooden	1	set											
	cabinet with sliding glass													
8	Cabinet (A-7) (0.90m x 0.30m x 0.80m) wooden	1	set											
	cabinet with sliding glass													
9	Cabinet (A-8) (0.40m x 0.60m x 1.20m) wooden	1	set										_	

	cabinet with sliding glass							
10	Bench - 1 (B-1) (0.40m x 2.40m x 0.53m) wooden	1	set					
	bench with 4" thk leatherette cover (uratex foam)							
11	Bench - 2 (B-1) (0.40m x 2.00m x 0.53m) wooden	1	set					
	bench with 4" thk leatherette cover (uratex foam)							
12	Bench - 3 (B-1) (0.40m x 1.60m x 0.53m) wooden	1	set					
13	INSTALLATION OF ADDITIONAL PARTITION WALL							
13.1	5.5mm thk Ficem board w/ 2" x 4" metal stud frame	20	sqm					
	double wall							
13.2	Sliding analok aluminum door w/ 1/4" thk frosted glass	1	set					
	heavy duty w/ complete accessories (0.80 x 2.10m)							
13.3	Painting works (3 coats latex paint)	20	sqm					
14	Repair of existing wooden counter rop	1	lot					
15	Fabrication and installation of new analok aluminum	2	set					
	sliding door (0.80m x 2.10m)							
16	Relocation of aluminum door hinges	1	lot					
17	Adjustment of ACU w/ new wooden platform	2	set					
18	Supply and installation of new exhaust fan 10"Ø ceiling	1	set					
	type exhaust fan (panasonic) w/ PVC pipe ducting							
	including chipping and restoration							
	Sub-total							
B.2	UPGRADING OF NEUTRON LAB.							
B.2.1	Fabrication and installation of the following							
B.2.1	Fabrication and installation of the following tables and shelves							
B.2.1		2	sets					
	tables and shelves	2	sets					
	tables and shelves Long working table (0.57m x 0.78m x 2.30m)	2	sets					
1	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL)							
1	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m)							
1 2	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL) Work table (1.00m x 1.50m x 0.80m) wooden laminated (HPL)	4	sets					
1 2	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL) Work table (1.00m x 1.50m x 0.80m)	4	sets					
2	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL) Work table (1.00m x 1.50m x 0.80m) wooden laminated (HPL)	2	sets					
2	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL) Work table (1.00m x 1.50m x 0.80m) wooden laminated (HPL) Working table with C.O (0.70m x 2.30m x 0.78m)	2	sets					
1 2 3 4	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL) Work table (1.00m x 1.50m x 0.80m) wooden laminated (HPL) Working table with C.O (0.70m x 2.30m x 0.78m) wooden laminated (HPL) Big open shelve (0.40m x 1.80m) wooden Sub-total	2	sets sets sets					
1 2 3 4 5 5 B.3	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL) Work table (1.00m x 1.50m x 0.80m) wooden laminated (HPL) Working table with C.O (0.70m x 2.30m x 0.78m) wooden laminated (HPL) Big open shelve (0.40m x 1.80m) wooden	2	sets sets sets					
1 2 3 4	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL) Work table (1.00m x 1.50m x 0.80m) wooden laminated (HPL) Working table with C.O (0.70m x 2.30m x 0.78m) wooden laminated (HPL) Big open shelve (0.40m x 1.80m) wooden Sub-total UPGRADING OF RADIOECOLOGY LABORATORY Fabrication and installation of the following working	2	sets sets sets					
1 2 3 4 5 5 B.3	tables and shelves Long working table (0.57m x 0.78m x 2.30m) wooden laminated (HPL) Small working table (0.70m x 1.20m x 0.77m) wooden laminated (HPL) Work table (1.00m x 1.50m x 0.80m) wooden laminated (HPL) Working table with C.O (0.70m x 2.30m x 0.78m) wooden laminated (HPL) Big open shelve (0.40m x 1.80m) wooden Sub-total UPGRADING OF RADIOECOLOGY LABORATORY	2	sets sets sets					

2 / A 3 V	88mm thk epoxy resin top finish including sink and splashboard w/ complete accessories nad fittings (wt-1) Acrylic Pegboard (0.60m x 0.90m x 25mm (i) thk) Wooden working table w/ sink (0.60m x 0.80m x 1.50m)	5							
2 A 3 V	Acrylic Pegboard (0.60m x 0.90m x 25mm (i) thk)	5							
3 V			sets						
3	Wooden working table w/ sink (0.00m x 0.00m x 1.30m)	1	set						
	88mm thk epoxy resin top finish including sink and	'	361						
	splashboard w/ complete big goose type faucet,								
-	accessories and fittings (wt-2)								
	Wooden working table with sink (0.60m x 0.80m x 2.00m)	1	set						
	88mm thk epoxy resin top finish including sink and								
	splashboard with complete big goose type faucet,								
	accessories and fitting (wt-3								
	Nooden working table with sink (0.60m x 0.80m x 3.00m)	1	set						
	88mm thk epoxy resin top finish including sink and								
	splash board with complete big goose type faucet,								
	accessories and fittings (wt-4)								
6 V	Nooden working table w/ double sink (0.60m x 0.80m x	1	set						
2	2.00m) 38mm thk epoxy resin top finish including sink								
а	and splashboard w/ complete big goose type faucet,								
а	accessories and fittings (wt-5)								
7 V	Wooden counter table (0.70m x 1.70m x 0.92m)	9	sets						
1	" thk solid epoxy resin top, gray to light gray color,								
c	dursurt brand w/ stainless steel frame and legs								
8 V	Nooden center lab table (1.50m x 1.50m x 1.80m)	1	set						
3	38mm thk epoxy resin top finish including sink and								
la	aminated finish (HPL) with drawers and doors cabinet								
c	on both side								
9 F	PROVISION OF CONCRETE TABLE W/ SINK (2 SETS)								
9.1	5" x 8" x 16" ordinary CHB'	36	pcs						
9.2 1	2mmØ x 6.00m def. bar	2	рс						
9.3 1	0mmØ x 6.00m def. bar	2	рс						
9.4	Concrete (1:2:3 mixture)	0.4	cu.m						
9.5	Stainless steel sink (0.45m x 0.45m x 0.25m)	2	set						
	G.A 18 w/ stairner								
9.6	Goose type faucet "Big" Pozzi w/ complete	2	set						
a	accessories and fittings								
9.7 F	PVC door cabinet and jamb (0.70m x 1.00m)	2	рс						
9.8	Chipping works	1	lot						
9.9 (0.60m x 0.60m) Granite tiles	24	pcs						

9. 10	ABC Tile adhesive	4	bags						
9.11	Stainless steel P-trap	2	рс						
10	PROVISION OF NEW WATERLINE & SEWERLINE								
10.1	3"Ø x 10' S-1000 Neltex PVC pipe	5	pcs						
10.2	2"Ø x 10' S-1000 Neltex PVC pipe	3	pcs						
10.3	3"Ø PVC Elbow Neltex	8	pcs						
10.4	3"Ø PVC wye Neltex	3	pcs						
10.5	6" x 6" stainless steel floor drain	3	pcs						
10.6	PVC cement	1	lit						
10.7	3"Ø PVC C.O	2	рс						
10.8	3"Ø x 2"Ø PVC wye	2	рс						
10.9	1/2"Ø x 12' PPR pipe "Mega green or equivalent"	8	рс						
10. 10	Asstd. PPR Fittings	15	pcs		 	 	 		
10.11	1/2"Ø PPR brass gate valve	5	pcs						
10.12	Stainless steel "Hose bibb" Pozzi or equal	2	pcs						
10.13	Chipping works & concrete cutting of floor	18	mtrs						
10.14	Concrete restoration	1	lot						
10.15	Epoxy paint restoration (5 coats w/ silica sand)	6	sqm						
10.16	3 Hp Split type aircon, ceiling mounted, Inverter, Panasonic brand	1	unit						
	Sub-total								
B.4	UPGRADING OF HPRS AND RADON LABORATORY								
I.	SITE WORKS								
1	Cutting/removal of existing asphalt membrane	1	lot						
	waterproofing and reinstallation								
2	Provision of interior wall opening & plastering	3.57	sqm						
	(1.70m x 2.10m) concrete wall opening icluding disposal								
3	Enclosed existing window, ACU and door	5	sqm						
	opening w/ 6" thk CHB w/ cement smooth plastered finish								
	and painting 6" thk CHB w/ 10mmØ rebar								
3.1	Plastering smooth cement finish	10	sqm						
3.2	Painting w/ surface preparation	10	sqm						
4	Chipping/removal of existing door & windows and disposal	1	lot						
	including floor and walls								
5	Demolition/chipping of existing concrete base	1	lot						
	and disposal								
6	MASONRY AND CONCRETE WORKS								
6.1	6" thk CHB (350 PSI)	285	pcs						

6.2	10mmØ x 6.00m def. bar	54	pcs						
6.3	G.A 16 G.I wire	8	kgs						
6.4	Portland cement	74	bags						
6.5	Sand gravel	10	cu.m						
6.6	12mmØ x 6.00m def. bar	8	pcs						
6.7	16mmØ x 6.00m def. bar	4	pcs						
6.8	1/2" x 4 x 8 ordinary plywood	4	pcs						
6.9	Asstd. Coco lumber	180	bd.ft						
6. 10	Asstd. C.W Nail	5	kgs						
6.11	3/4" Crashed gravel	4	cu.m						
7	CARPENTRY WORKS								
7.1	10mm x 1.2 x 2.4 Gypsum Board	12	pcs						
7.2	1" x 2" x 16' metal furring "JEA Brand"	20	pcs						
7.3	1" x 1" x 12' metal wall angle "JEA Brand"	6	pcs						
7.4	Hanger and support	1	lot						
7.5	Tox w/ screw	40	pcs						
7.6	Black screw	200	pcs						
7.7	1" x 3" x 10' S4S K.D Cornice	16	pcs						
7.8	1" x 2" x 16' x 1.00mm thk Carrying Channel	4	pcs						
7.9	Blind rivets	2	box						
8	ROOFING WORKS								
	(0.40mm x 1.09 x 6.20m) Pre-painted long span	6	pcs						
	roofing rib-type "Green"								
8.1	1.00mm thk x 1.20m x 2.44m Stainless steel type 304	3	pcs						
8.2	Aluminum blind revit	5	box						
8.3	4"Ø PVC Pipe x 10' neltext (S-1000)	6	pcs						
8.4	4"Ø PVC Elbow neltex	6	pcs						
8.5	PVC cement	1	lit						
8.6	Vulcaseal	1	lit						
8.7	Silicon sealant	2	tube						
8.7	0.40 x 1.2 x 2.44 Pre-painted plain sht.	5	pcs						
8.8	Metal texscrew 3 1/2" Pre-painted	200	pcs						
8.9	0.60mm thk x 0.10m x 1.00m metal spandrel "Brown"	280	pcs						
	0.60mm thk Pre-painted top cap	9	pcs						
8.11	0.60mm thk Pre-painted bottom cap	9	pcs						
8.12	0.60mm thk x 0.10m x 0.40m Pre-painted	50	pcs						
	metal spandrel								
8.13	0.60mm thk wall angle	8	pcs						

9	STRUCTURAL/METAL WORKS							
9.1	2" x 2" x 1/4" x 20' angle bar	8	pcs					
9.2	1 1/2" x 1 1/2" x 3/16" x 20' angle bar	16	pcs					
9.3	Welding rad	10	kg					
9.4	G.A 16 x 2" x 4" metal c-purlins	10	pcs					
9.5	12mmØ x 6.00m plain round bar (Sagrod)	2	pcs					
9.6	12mmØ Turn buckle	2	pcs					
9.7	4"Ø Cutting disc	4	pcs					
9.8	4"Ø Grinding disc	2	pcs					
9.9	12"Ø Cutting dics	1	рс					
9. 10	Red oxide paint	1	gal					
9.11	Paint thinner	1	gal					
9.12	3" paint brush	2	pcs			 		
9.13	Turco rust converter	1	lit					
9.14	(0.40m x 2.00m) 1" x 1" tubular ceiling ventillation	2	set					
10	ALUMINUM/GLASS WORKS							
10.1	(1.80M x 2.10m) Double Swing door analok	2	set					
	aluminum with 1/4" thk broung glass							
10.2	(0.40m x 1.20m) Aluminum analok sliding window	1	set					
	with 1/4" thk broung glass							
10.3	(0.40m x 2.00m) Aluminum analok sliding window	1	set					
	with 1/4" thk broung glass							
11	PLUMBING WORKS							
11.1	25mmØ x 16' PPR Pipe (Mega green or equal)	2	pcs					
11.2	12mmØ x 16' PPR Pipe (Mega green or equal)	3	pcs					
11.3	Asstd. PPR Fittings	1	lot					
11.4	PPR Brass Gate Valve (12mmØ)	2	pcs					
11.5	PPR Brass Gate Valve (25mmØ)	1	рс					
11.6	Metal clamps with tox and screw	12	set					
12	TILE WORKS							
12.1	(0.60m x 0.60m) Granite floor tiles	85	pcs					
12.2	ABC Tile adhesive	6	bags					
12.3	Portland cement	6	bags					
12.4	Tile grout	2	kg					
13	PAINTING WORKS							
13.1	Painting of concrete (at least 3 coats)	110	sqm					
	w surface preparation (inside & outside)							
	walls and ceiling							

16	PROVISION OF CONCRETE TABLE W/ SINK W/ PVC							
	CABINET DOORS							
16.1	(16" x 22" x 10" depth) G.A 18 Stainless steel sink	2	set					
	mirrorized w/ strainer							
16.2	Epoxy A and B	2	lit					
16.3	Big Goose type faucet "Pozzi"	2	set					
16.4	Flexible stainless pipe	4	pcs					
16.5	Angle valve	4	pcs					
16.6	(0.60m x 0.60m) Synthetic granite floor tiles	56	pcs					
16.7	ABC tile adhesive	12	bags					
16.8	6" CHB Ordinary	80	pcs					
16.9	Portland cement	15	bags					
16. 10	White sand	2	cu.m					
16.11	12mmØ x 6.00m def. bar	20	pcs					
16.12	G.A 16 G.I wire	2	kgs					
16.13	Aluminum tile trim (heavy duty)	10	pcs					
16.14	PVC Door cabinet (0.70m x 4.20m) with	2	set					
	pvc jamb (12 doors)							
16.15	Concrete (1:2:4) mixture	1	cu.m					
16.16	Painting	20	sqm					
16.17	Chipping	1	lot					
	Sub-total							
B.5	UPGRADING OF RBA LABORATORY - 1							
1	REPAIR OF CEILING AND ROOF FLASHING							
1.1	1/4" x 4' x 8' Ficem board	6	pcs					
1.2	1" x 2" x 16' Metal furring	6	pcs					
1.3	Aluminum blind revit	1	box					
1.4	0.40mm x 1.2m x 1.4m Pre-painted plain sht.	1	рс					
1.5	Vulcaseal rubber sealant	1	gal					
1.6	Thoroseal water proofing cement	1	gal					
1.7	Painting of ceiling	40	sqm					
2	Repair of electrical lightings (replace of lightings)							
	flourescent fixtures recess type w/ louvers (2x40w)	2	set					
3	INSTALLATION OF ANGULAR BAR AIRCON							
	SUPPORT BRACE (7 SETS)							
3.1	2" x 2" x 3/16" x 20' Angular bar	7	pcs					
3.2	Welding rod	4	kg					
3.3	Painting	7	pcs					

3.4	Expansion Bolt	28	pcs						
4	INSTALLATION OF NEW ANALOK ALUMINUM FRAME								
	PARTITION W/ DOUBLE ALUMINUM DOORS								
	W/ FIX GLASS								
4.1	(2.45m x 2.70m) Analok Aluminum partition with	2	set						
	(1.80m x 2.10m) double analok aluminum door frame								
	w/ 1/4" thk bronze glass w/ complete accessories								
4.2	(1.86m x 2.70m) double analok aluminum door frame	1	set						
	w/ 1/4" thk bronze glass w/ complete accessories								
	w/ transom on top of door.								
5	INSTALLATION OF NEW ACU'S WATER DRAIN PIPES								
	(EMBEDDED TO CONCRETE WALL)								
5.1	3/4"Ø x 10' PVC pipe (ESLON BLUE)	6	pcs						
5.2	Asstd. PVC Fittings	1	lot						
5.3	PVC cement	1/4	lit						
5.4	Chipping works and cement plastering	1	lot						
5.5	Painting works (concrete wall)	27	sqm						
8	PROVISION OF NEW WATERLINE (for the Pressurized Water Tank)								
8.1	1/2"Ø x 12' PPR pipe "Mega green or equivalent"	3	рс						
8.2	Asstd. PPR Fittings	10	рс						
8.3	1/2"Ø PPR brass gate valve	2	pcs						
8.4	Chipping works & concrete cutting of floor	1	lot						
8.5	Concrete restoration & painting	1	lot						
	Sub-total								
B.6	UPGRADING OF CENTRAL LAB								
1	APPLICATION OF NEW EPOXY FLOOR PAINT								
1.1	Self leveling epoxy (Badge)	280	sqm						
2	REPAIR OF CEILING AND REPAINTING								
2.1	Repair of ceiling	1	lot						
2.2	Repainting of ceiling	280	sqm						
3	REPLACEMENT AND INSTALLATION OF NEW ACU								
3.1	Window type ACU (2.0 Hp) Panasonic (Liquid Nitrogen Plant)	2	sets						
3.2	Wall type split type ACU (2.0 Hp) Panasonic , Inverter (Chem & Applied Physics)	2	sets						
3.3	Wall type split type ACU (1.0 Hp) Inverter, Panasonic , Chemistry	2	sets						
4	SUPPLY AND INSTALLATION OF WINDOW BLIND								

4.1	(4.04 · · · 4.75 · ·) D) (0. · · · · ·	12	set						
7.1	(1.04m x 1.75m) PVC roll-up blinds (same as existing) Sub-total	12	301						
	Sub-total								
B.7	UPGRADING OF RADIATION PROCESSING LAB.								
1	REPAIR OF EXISTING FLOOR AND APPLICATION OF								
	ADDITIONAL EPOXY FLOOR PAINT								
1.1	Self leveling epoxy (Badge or equal)	137	sqm						
1.2	Pioneer epoxy sealant A & B	1	gal						
2	Demolition of emergency shower concrete partition wall	1	lot						
	including disposal of debris and restoration								
4	SUPPLY AND INSTALLATION OF WINDOW BLINDS								
4.1	(1.04m x 1.75m) PVC Roll-up blinds (same as existing)	16	set						
	Sub-total								
B.8	INSTALLATION OF EMERGENCY SHOWER AT								
	BASEMENT, GROUND FLOOR, SECOND FLOOR.								
1	Basement (Emergency shower w/ complete accessories)	2	set						
	stainless steel same as existing								
1.1	1/2"Ø PPR pipes & fittings w/ gate valve and connect to	2	set						
	nearest existing water lines								
2	Ground floor (Emergency shower w/ complete accessories)	1	set						
	stainless steel same as existing								
2.1	1/2"Ø PPR pipes & fittings w/ gate valve and connect to	1	set						
	nearest existing water lines								
3	Second floor (Emergency shower w/ complete accessories)	1	set						
	stainless steel same as existing								
3.1	1/2"Ø PPR pipes & fittings w/ gate valve and connect to	1	set						
	nearest existing water lines								
	Sub-total								
B.9	REPLACEMENT OF CHIPPED TILES AT CHEMISTRY								
	OFFICE, 2ND FLOOR ACR BLDG.								
1	0.60m x 0.60m x 1/4" thk. Synthetic Granite	20	pcs						
2	Pioneer Epoxy A & B	4	gal						
3	Tile grout	2	kg						
4	Chipping/removal of floor tile & disposal	1	lot						
	Sub-total								
B.10	UPGRADING OF CHEMICAL STORAGE HOUSE								
	2ND FLOOR ROOFDECK								
1	SITE WORK								
				•				 1	

1.1	Demolition of existing dilapidated storage house	1	lot						
1.2	Hauling and disposal of debris	1	lot						
1.3	Removal of existing asphalt membrane	1	lot						
	waterproofing and re-installation								
1.4	Chipping of floor and wall	1	lot						
2	REINFORCEMENT CONCRETE AND MASONRY WORKS								
	REMI ORGENIZATI GORGRETE AND MACORITY WORKS								
2.1	3,000 psi concrete	3.5	cu.m						
2.2	10mmØ x 6.00m def. bar	56	pcs						
2.3	12mmØ x 6.00m def. bar	14	pcs						
2.4	16mmØ x 6.00m def. bar	6	pcs						
2.5	G.A 16 G.I wire	10	kgs						
2.6	1/2" x 4' x 8' ordinary plywood	4	pcs						
2.7	Asstd. Coco lumber	130	bd.ft						
2.8	Asstd. C.W Nail	5	kgs						
2.9	6" x 8" 16" 350 psi CHB (Jack built or equal)	470	pcs						
2. 10	Portland cement	70	bags						
2.11	Sand	10	cu.m						
3	CARPENTRY								
3.1	Interior ceiling (5.5mm ficem board w/ metal furring)	21.7	sqm						
3.2	Exterior ceiling (5.5mm ficem board w/ metal furring)	21.6	sqm						
3.3	12mm x 1.2mm x 2.44m Ficem board	3	pcs						
3.4	Black screw	500	pcs						
4	STRUCTURAL & METAL WORKS								
4.1	2" x 2" x 3/16" x 20' Angular bar	16	pcs						
4.2	1'/2" x 1'/2" x 3/16" x 20' Angular bar	12	pcs						
4.3	Welding rod	1	box						
4.4	G.A 16 x 2" x 4" x 20' B.I C.purlins	13	pcs						
4.5	12mmØ x 6.00m plain round bar	2	pcs						
4.6	Cutting disc 4"Ø	3	pcs						
4.7	Grinding disc 4"Ø	2	pcs						
4.8	12"Ø Cutting disc	1	set						
4.9	Red oxide paint "Boysen"	2	gal						
4. 10	Paint thinner	1	gal						
4.11	Paint brush 3"	2	pcs						
4.12	(0.40m x 1.50m) Ceiling Ventillation 1" x 1" x 1.2mm	4	set						
	tubular pipe w/ aluminum expanded screen inside								
	(3 coats epoxy paint)								
	(3 coats epoxy paint)								

	(0.50m x 2.00m) G.A 16 G.I Sheet louver window w/							
4.13	aluminum expanded metal indise (3 coats epoxy painted)	1	set					
	(1.00m x 2.10m) Steel bar w/ jamb, G.A 16 G.I sheet							
	with honey comb insulation inside (3 coats epoxy							
4.14	painted) w/ 5-4" x 4" heavy duty stainless hinges	1	set					
4.15	"Yale" Stainless Steel Door lockset	1	set					
4.16	"Stanley" Heavy duty door closer	1	set					
5	TINSMITHRY WORK							
5.1	(1.09m x 8.00m x 0.40mm) Pre-painted rib-type	5	pcs					
	long span roofing "Green"							
5.2	(0.60m x 2.44m x 0.40mm) Pre-painted side flashing	9	pcs					
5.3	(1.22m x 2.44m x 0.40mm) Pre-painted plaint sheet	2	pcs					
5.4	Silicon Sealant	2	tube					
5.5	Vulcaseal	2	ltr					
5.6	Metal Texscrew	200	pcs					
5.7	Concrete nail	1	kg					
5.8	Black screw	100	set					
6	PAINTING WORKS							
6.1	Painting of concrete wall w/ surface preparation w/	120	sqm					
	at least three (3) coats latex paint							
6.2	Painting of ceiling w/ surface preparation w/ at least	45	sqm					
	three (3) coats latex paint including fascia board							
	Sub-total							
B.11	UPGRADING OF CARAGEENAN PILOT LAB.							
1	SITE WORK							
1.1	Removal of existing asphalt membrane	1	lot					
	waterproofing and re-installation							
1.2	Chipping of floor and walls	1	lot					
2	REINFORCED CONCRETE AND MASONRY WORKS							
2.1	3,000 psi concrete	5.9	cu.m					
2.2	10mmØ x 6.00m def. bar	110	pcs					
2.3	12mmØ x 6.00m def. bar	20	pcs					
2.4	G.A 16 G.I wire	10	kgs					
2.5	1/2" x 4' x 8' ordinary plywood	6	pcs					
2.6	Asstd. Coco lumber	250	bd.ft			 		
2.7	Asstd. C.W Nail	7	kgs					
2.8	6" x 8" 16" 350 psi CHB (Jack built or equal)	875	pcs			 		

2.9	Portland cement	115	bags						
2. 10	Sand	10	cu.m						
2.11	16mmØ x 6.00m def. bar	14	pcs						
3	CARPENTRY WORKS								
3.1	Interior ceiling (5.5mm ficem board w/ metal furring	33	sqm						
	frame @0.30m o.c w/ metal hanger)								
4	STRUCTURAL & METAL WORKS								
4.1	2" x 2" x 1/4" x 20' Angular bar	16	pcs						
4.2	1'/2" x 1'/2" x 3/16" x 20' Angular bar	28	pcs						
4.3	Welding rod	2	box						
4.4	G.A 16 x 2" x 4" x 20' B.I C.purlins	16	pcs						
4.5	12mmØ x 6.00m plain round bar	3	pcs						
4.6	Cutting disc 4"Ø	4	pcs						
4.7	Grinding disc 4"Ø	4	pcs						
4.8	12"Ø Cutting disc	1	set						
4.9	16mmØ x 6.00m plain round bar	6	pcs						
4. 10	16mmØ turn buckle	6	pcs						
4.11	Red oxide paint	1	tin						
4.12	Paint thinner	2	gal						
4.13	Paint brush	4	pcs						
4.14	(0.40m x 1.50) ceiling re-installation 1" x 1" 1-2mm	5	set						
	tubular pipe w/ aluminum expanded screen inside								
4.15	(0.50m x 2.00m) analok aluminum sliding window	3	set						
4.16	(0.50m x 1.20m) analok aluminum sliding window	2	set						
4.17	(0.90m x 2.10m) Steel door w/ jamb G.A 16 G.I sheet	2	set						
	w/ honey comb insulation inside (3 coats epoxy paint)								
	w/ 5-4" x 4" heavy duty stailess steel hinges								
4.18	"Yale" Stainless Steel Door lockset	3	set						
4.19	"Stanley" Heavy duty door closer	3	set						
4. 20	(0.70m x 2.10m) Steel door w/ jamb G.A 16 G.I sheet	4	pcs						
	w/ honey comb insulation inside (3 coats epoxy paint)								
	w/ 5-4" x 4" heavy duty stailess steel hinges								
5	TINSMITHRY WORK								
5.1	(1.09m x 6.20m x 0.40mm) Pre-painted rib-type	10	pcs						
	long span roofing "Green"								
5.2	(1.22m x 2.44m x 0.40mm) Pre-painted plain sheet	9	pcs						
5.3	(1.22m x 2.44m x G.A 24) plain stainless steel sheet	5	pcs						
5.4	Silicon Sealant	5	pcs						

5.5	Vulcaseal	2	ltr						
5.6		500	pcs						
5.7	Metal Texscrew	100	pcs						
5.8	Black screw	200	pcs						
	0.10m x 1.20m x 0.60mm thk metal spandrel pre-painted	80	_						
5.9	0.10m x 0.50m x 0.60mm thk metal spandrel pre-painted		pcs						
5. 10	0.10m x 1.00m x 0.60mm thk metal spandrel pre-painted	325	pcs						
5. 10	1" x 1" wall angle pre-painted	24	pcs						
5.11	0.60mm thk pre-painted top capping	18	pcs						
5.12	0.60mm thk pre-painted bottom capping	18	pcs						
5.13	4"Ø S-1000 PVC pipe "Neltex"	12	pcs						
5.14	4"Ø PVC elbow	12	pcs						
5.15	PVC cement	1	lit						
5.16	Tox w/ screw	100	pcs						
5.17	Blind rivets	3	box						
5.18	Miscelleneous	1	lot						
6	PAINTING WORKS								
6.1	Concrete walls w/ surface praparation	200	sqm						
6.2	Ficem board ceiling including fascia w/ surface preparation	30	sqm						
7	INSTALLATION OF ADDITIONAL 2 SET PVC								
	DOWNSPOUTS ON EXISTING CARRAGEENAN BLDG.								
7.1	4"Ø S-1000 PVC pipe "Neltex"	6	pcs						
7.2	4"Ø PVC elbow	6	pcs						
7.3	Vulcaseal	1	lit						
7.4	PVC cement	1/4	lit						
7.5	Steel scaffolding (rental)	1	lot						
	Sub-total								
B.12	UPGRADING OF BASEMENT HALLWAY								
1	Replace warm lights to day lights (Pin lights)	19	pcs						
2	Rectification of concrete wall cracks (Verify Actual)	1	lot						
3	Repainting of concrete walls	417	sqm						
	Repair of damage ceiling (Acoustic board)								
4	2' x 2' white acoustic board	15	pcs						
5	1" x 1" x 16' white metal T-runner	3	pcs						
	Sub-total								
B.13	UPGRADING OF CHEMISTRY LABORATORY BASEMENT								
1	Repainting of interior concrete walls and ceiling including	250	sqm						
	pipes, column and beams								
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-	(2' x 2' white acoustic board) w/ white metal t-runner frame									
	at 0.60m O.C B.W with metal hanger									
2	Supply of split type ACU	1	set							
	(2.0 HP) Wall type split type ACU, Inverter, Panasonic Brand									
3	Demolition of lavatory counter type including	1	lot							
	disposal and resotration									
4	Self leveling epoxy (Badge or equal)	75	sqm							
	Sub-total									
B.14	UPGRADING OF NATAS LABORATORY									
1	Fabrication of new laboratory counter table	1	set							
	(1.30m x 2.40m x 1.00m) w/ electrical outlets									
	Ducco finish, Granite top finish									
2	Fabrication of new laboratory counter table w/ 2 set stainless	1	set						_	
	steel sink w/ faucet & complete accessories , ducco finish									
	w/ electrical outlets									
3	Installation of New PPR waterline and PVC sewerline	1	lot							
	connect to nearest existing									
4	Dismantling of existing exhaust fan & disposal	1	set							
	(NATAS prep. Lab.)									
5	Dismantling of existing exhaust fan & disposal	2	set							
	(Isotope hydrology)									
6	Repainting of walls and ceiling of Isotope hydrology	85	sqm							
7	PROVISION OF NEW DRY WALL PARTITION									
7.1	Double wall 1/4 thk ficem board w/ 2" x 4" metal stud	14	sqm							
	frame @0.60m O.C B.W									
7.2	Painting (3 coats) wall & ceiling	50	sqm							
7.3	10"Ø Exhaust fan w/ ducting	1	set							
7.4	Wooden flush door (HPL) laminated finish	1	set							
7.5	Stainless steel hinges (3'/2" x 3'/2")	4	pcs							
7.6	Door lockset "YALE"	1	set							
7.7	Door closer heavy duty (stanley)	1	set							
7.8	2" x 6" (0.80m x 2.10m) G.A 16 steel jamb	1	set							
	Sub-total									
B.15	UPGRADING OF RBA LABORATORY 2 STORAGE ROOM									
1	10"Ø wall type exhaust fan w/ gavity shutter (panasonic)	1	set							
2	(0.60m x 1.20m x 1.20m) wooden open shelve with	1	set							
	stainless steel cladding inside G.A					 				

3	(0.60m x 0.75m x 1.20m) wooden cabinet w/ shelve	1	set					
	with stainless steel cladding w/ analok aluminum							
	frame door w/ 1/4" thk clear glass							
	Sub-total							
B-16	UPGRADING OF GROUND FLOOR ENTRANCE & FLOORING	 }						
1	Concreting of flooring with tile finish							
1.1	Concrete (1:2:3 Mixture) - 3,000 psi	3.2	sqm					
1.2	10mmø X 6.00m DEF. BAR	24	рс					
1.3	G.A. 16, G.I. WIRE	2	kg					
1.4	1/2" X 4' x 8' Ordinary Plywood	1	рс					
1.5	2" x 2" x 12' Coco Lumber	6	pcs					
1.6	Assorted C.W. Nail	1	kg					
1.7	Stair Nosing (same existing)	2	рс					
1.8	Epoxy Adhesive A&B	1	lit					
1.9	Tox w/ Screw	12	рс					
1.10	(0.60m X 0.60m) Granite floor tiles (same finish)	90	pcs					
1.11	ABC Tile Adhesive	9	bag					
1.12	ABC Tile Grout	4	bag					
1.13	Portland Cement	6	bag					
1.14	Ready Fix Adhesive	3	gal					
2	Removal and Reinstallation of Existing Granite Floor Tiles							
2.1	(0.60m X 0.60m) Granite floor tiles (same finish, removal							
	Chipping and Re-Installation (Labor Only)	200	pcs					
2.2	ABC Tile Adhesive	9	bags					
2.3	ABC Tile Grout	4	bags					
2.4	Portland Cement	6	bags					
2.5	(0.60m X 0.60m) Granite floor tiles (same finish)	40	pcs					
2.6	Ready Fix Adhesive	10	gal					
	Sub-total							
B.17	PAINTING WORKS FOR REACTOR POOL CONCRETE SHIELDING							
1.1	Painting Work using 1 coat Primer Boysen & 2 coats of Acqua Epoxy Paint Top Coat w/ Consumables	540	sqm			 		
1.2	Rental of Scaffolding	1	lot					
	Sub-total							
С	ELECTRICAL WORKS							
C.1	Supply and installation of Electrical Panelboard including its feederline at the Chemistry Main Laboratory							

1.1	Panelboard, 100A, 3P, 230V 30 KAIC, Main CB, Industrial Type with Branches Circuit Breaker: 3 sets 40A, 3P, 230V CB, Bolt-on Type, 3 sets 30A, 3P, 230V CB, Bolt-on Type, 3 sets 30A, 2P, 230V CB, Bolt-on Type	1	lot					
1.2	50 mm diameter Rigid Steel conduit (RSC) pipe	11	pcs.					
1.3	50 mm diameter RSC elbow	3	pcs.					
1.4	50 mm diameter RSC coupling	11	pcs.					
1.5	Pullboxes pre-painted with cover (350mmx350mmx200mm)	1	set					
1.6	Pipe fittings, Hanger and Pipe support	1	lot					
1.7	30 mm ² THHN/THWN Cable	99	m					
1.8	14 mm² THHN/THWN Cable	33	m					
	Sub-total							
C.2	Electrical Works at HPRS Radon Laboratory							
2.1	Panelboard, 30A, 3P, 230V 22 KAIC, Main CB, Bolt-on and commercial type with Branches Circuit Breaker: 2 sets 30A, 2P, 230V CB, Bolt-on Type, 1 set 20A, 2P, 230V CB, Bolt-on Type, 1 set 15A, 2P, 230V CB, Bolt-on Type	1	lot					
2.2	Aircon outlets	2	sets					
2.3	Convenience outlets	6	sets					
2.4	Single convenience outlet	2	sets					
2.5	2"x4" Utility box	13	pcs.					
2.6	Three Gang Switch	2	sets					
2.7	Rigid steel Conduit pipe, 15 mm diameter	30	pcs.					
2.8	Fluorescent Fixture, 40W, Single, LED, Surface Mounted	8	sets					
2.9	Pinlight Fixture, LED, 12W, recessed type, 8" diameter	4	sets					
2. 10	Rigid steel Conduit pipe, 20 mm diameter	10	pcs.					
2.11	15mm RSC locknut and bushing	50	sets					
2.12	20mm RSC locknut and bushing	6	sets					
2.13	5.5 mm ² THHN/THWN wire	90	m					
2.14	3.5 mm ² THHN/THWN wire	1	roll					
2.15	Industrial Type Exhaust Fan, 12" diameter with shutter	2	sets					
2.16	Window type ACU (2.0 Hp) Panasonic Brand	2	sets					
2.17	Miscellaneous (support for rsc pipes)	1	lot					
	Sub-total							
C.3	Electrical Works at Pilot Laboratory, 2nd floor, ARC Building							
3.1	Panelboard, 30A, 3P, 230V 22 KAIC, Main CB, Bolt-on and commercial type with Branches Circuit Breaker: 2 sets 30A, 2P, 230V CB, Bolt-on Type, 1 set 20A, 2P, 230V CB, Bolt-on Type, 1 set 15A, 2P, 230V CB, Bolt-on Type	1	lot					
3.2	Aircon outlets	2	sets					

3.3	Convenience outlets	6	sets						
3.4	Single convenience outlet	2	sets						
3.5	2"x4" Utility box	10	pcs.						
3.6	Three Gang Switch	2	sets						
3.7	Rigid steel Conduit pipe, 15 mm diameter	23	pcs.						
3.8	Rigid steel Conduit pipe, 20 mm diameter	8	pcs.						
3.9	15mm RSC locknut and bushing	36	sets						
3. 10	20mm RSC locknut and bushing	6	sets						
3.11	5.5 mm ² THHN/THWN wire	75	m						
3.12	3.5 mm² THHN/THWN wire	2	rolls						
3.13	Pinlight Fixture, LED, 12W, recessed type, 8" diameter	4	sets						
3.14	Fluorescent Fixture, 40W, Single, LED, Surface Mounted	8	sets						
3.15	Industrial Type Exhaust Fan, 12" diameter with shutter	2	sets						
3.16	Miscellaneous (support for rsc pipes)	1	lot						
	Sub-total								
C.4	Renovation at Chemistry Laboratory, Basement								
4.1	Panelboard, 100A, 3P, 230V 30 KAIC, Main CB, Industrial type with Branches Circuit Breaker: 8 sets 30A, 2P, 230V CB, Bolton Type, 7 sets 20A, 2P, 230V CB, Bolt-on Type	1	lot						
4.2	Octagonal box, 4"x4", metallic with cover	20	sets						
4.3	Utility box. 2"x4". Metallic	15	pcs.						
4.4	Aircon outlets	2	sets						
4.5	Duplex Convenience outlet with cover and ground	13	sets						
4.6	15mm RSC pipe	25	pcs.						
4.7	50mm RSC pipe	7	pcs.						
4.8	15mm RSC locknut and bushing	60	sets						
4.9	50mm RSC locknut and bushing	7	sets						
4. 10	50mm RSC condulet	1	рс						
4.11	50mm RSC elbow	3	pcs.						
4.12	50mm RSC coupling	4	pcs.						
4.13	30 mm ² THHN/THWN Cable	60	m						
4.14	14 mm ² THHN/THWN Cable	20	m						
4.15	5.5 mm ² THHN/THWN wire	2	rolls						
4.16	3.5 mm ² THHN/THWN wire	1	roll						
4.17	2.0 mm ² THHN/THWN wire	1	roll						
4.18	Mica tube, 15mmø	20	m						
4.19	Pullboxes pre-painted with cover (350mmx350mmx200mm)	3	set						
4. 20	Miscellaneous (support for rsc pipes and fittings)	1	lot						

	Cub total							
	Sub-total Sub-total							
C.5	Supply and installation of 1 unit Pressure water tank and 2 units ceiling exhaust fans at the RBA laboratory Building.							
5.1	15mm RSC pipe	2	pcs.					
5.2	15mm RSC elbow	4	pcs.					
5.3	15mm RSC locknut and bushing	4	sets					
5.4	20mm RSC pipe	3	pcs.					
5.5	20mm RSC elbow	6	pcs.					
5.6	20mm RSC locknut and bushing	2	sets					
5.7	20mm condulet	1	рс.					
5.8	Octagonal box, 4"x4", metallic with cover	2	pcs					
5.9	5.5 mm ² THHN/THWN wire	30	m					
5. 10	3.5 mm ² THHN/THWN wire	15	m					
5.11	Mica tube	1	m					
5.12	12"Ø Ceiling type Exhaust fan (PANASONIC)	2	sets					
5.13	Miscellaneous (concreting of RSC pipe)	1	lot					
5.14	Pressurized watertank (Galvanized) 40/60 Psi - 42 gals. capacity w/ 1HP motor (made in japan or equal)	1	set					
	Sub-total							
C.6	Supply and installation of two sets timer switch with contactor enclosed in a metal enclosure for the two window type aircons at the RBA Laboratory							
6.1	NEMA 3 enclosure, 7"x7"x5" Inches	2	sets					
6.2	Camsco Timer Switch , Model TB-370, 100V-250V,50/60Hz	2	sets					
6.3	AC Motor Contactor, 3 POLE+1NC 220V 18A COIL 4/ 7.5KW	2	sets					
6.4	uPVC Surface type utility box,beige color	2	pcs.					
6.5	Miscellaneous (Screw, tox, wires and wire terminals)	1	lot					
	Sub-total							
C.7	Supply and installation of one (1) unit 3 Hp Split Type aircon , Celing Mounted and one (1) unit 1.5Hp Split Type aircon, Celing Mounted at Chem Office and Radiation Processing Laboratory							
7.1	Hp Split type aircon, ceiling mounted, Inverter, Panasonic brand	1	lot					
7.2	ECB with 40A, 2P, 230V Bolton-on type circuit breaker	1	set					
7.3	8.0 mm ² THHN/THWN wire	58	m					
7.4	3.5 mm ² THHN/THWN wire	29	m					
7.5	20 mmø RSC pipe	9	pcs.					
7.6	20 mmø RSC elbow	3	pcs.					

7.7									
7.7	20 mmØ RSC coupling	9	pcs.						
7.8	20 mmØ RSC locknut and bushing	6	pcs.						
7.9	4" Ø octagonal box with cover	4	pcs.						
7.1	1.5 hp Split type aircon, ceiling mounted, Inverter, Panasonic brand	1	lot						
7.11	ECB with 30A, 2P, 230V Bolton-on type circuit breaker	1	set						
7.12	5.5 mm ² THHN/THWN wire	64	m						
7.13	2.0 mm ² THHN/THWN wire	32	m						
7.14	15 mmØ RSC pipe	10	pcs.						
7.15	15 mmØ RSC elbow	4	pcs.						
7.16	15 mmØ RSC coupling	10	pcs.						
7.17	15 mmØ RSC locknut and bushing	4	pcs.						
7.17	Miscellaneous (ACU supports)	1	lot						
	Sub-total								
C.8	Supply and installation of feederline for the 5.7 KW, 3Ø, 230V. Oven at the NATA Laboratory								
8.1	20mm diameter RSC pipe	16	pcs.						
8.2	20 mm diameter RSC elbow	2	pcs						
8.3	8.0 mm ² THWN wire, stranded (100m/roll)	1.5	rolls						
8.4	3.5 mm ² THWN wire, stranded	48	m						
8.5	20 mm diameter RSC Locknut and bushing	6	sets						
8.6	20 mm diameter RSC coupling	16	pcs.						
8.7	4 11/16 x 4 11/16" square box, metallic with cover	3	pcs.						
8.8	40A, 3P, 230V 22 KAIC, Bolton-on type circuit breaker	1	set						
8.9	ECB with 40A, 3P, 230V 22 KAIC, Bolton-on type circuit breaker, NEMA 3	1	set						
8.10	Miscellaneous (pipe supports/hangers and screws/tox)	1	lot						
	Sub-total								
C.9	Re-installation of two (2) existing 40W Fluorescent Fixtures and supply and installation of one (1) unit new Fluorescent Fixture, 40W, 230V with louver & mirrorized at the Basement Hallway near the electrical room. (to be connected to the existing lighting circuit)								
9.1	Fluorescent Fixture, 40W, Single, LED, Surface Mounted	1	set		 	 		 	
9.2	15 mmØ RSC pipe	5	pcs.		 				
9.3	15 mmØ RSC elbow	2	pcs.		 			 	
9.4	15 mmØ RSC coupling	5	pcs.						
9.5	15 mmØ RSC locknut and bushing	6	sets						
9.6	3.5 mm ² THWN wire, stranded	15	m						
9.7	4" Ø octagonal box with cover	3	pcs.						
9.8	Miscellaneous (pipe hangers/clamps)	1	lot						

	Sub-total								
C.10	UPGRADING OF ITS OFFICE ROOM								
1	Supply and installation 2 HP split type ACU Ceiling type, Inverter, Panasonic Brand	1	set						
2	Supply and installation of 1.5 hp Split type aircon, ceiling mounted, Inverter, Panasonic brand	1	lot						
3	ECB with 30A, 2P, 230V Bolton-on type circuit breaker	2	sets						
4	15mmø RSC Pipes	46	pcs.						
5	5.5mm² wires THHN/THWN	2	rolls						
6	Miscellaneous (RSC pipes support/hangers and screws)	1	lot						
	Sub-total								
TOTAL									

	GENERAL REQUIREMENTS	TOTAL COST
1	Mobilization & demobilization	0.00
2	Bonds/insurance	0.00
3	Temporary facilities	0.00
4	As-built plan	0.00
5	Project Billboard	0.00
SUB-TOT	AL	0.00
	CIVIL AND STRUCTURAL WORKS	
1	2nd Floor Upgrading Of BMRS Lab & Office	0.00
2	Upgrading of Neutron Lab.	0.00
3	Upgrading of Radioecology Laboratory	0.00
4	Upgrading of HPRS and Radon Laboratory	0.00
5	Upgrading of RBA Laboratory – 1	0.00
6	Upgrading of Central Lab	0.00
7	Upgrading of Radiation Processing Lab.	0.00
8	Installation of Emergency Shower At Basement, Ground Floor, Second Floor.	0.00
9	Replacement of Chipped Tiles at Chemistry Office, 2nd Floor ACR Bldg.	0.00
10	Upgrading of Chemical Storage House 2nd Floor Roofdeck	0.00
11	Upgrading of Carageenan Pilot Lab.	0.00
12	Upgrading of Basement Hallway	0.00
13	Upgrading of Chemistry Laboratory Basement	0.00
14	Upgrading of NATAS Laboratory	0.00
15	Upgrading of RBA Laboratory 2 Storage Room	0.00
16	Upgrading of PNRI Clean Room	970,880.40
17	Upgrading of Ground Floor Entrance	0.00

970,880.40

SUB-TOTAL

1	Supply and installation of Electrical Panelboard including its feederline at the Chemistry Main Laboratory	82,502.28
2	Electrical Works at HPRS Radon Laboratory	70,111.94
3	Electrical Works at Pilot Laboratory, 2nd floor, ARC Building	72,932.58
4	Renovation at Chemistry laboratory basement	154,728.00
5	Supply and installation of 1 unit pressure watertank and 2 unit ceiling exhaust fan at RBA laboratory building	11,949.34
6	Supply and installation of 1 unit 3 tonner split type aircon ceiling mounted and 1 unit 1.5 HP split type aircon celing mounted at Chem office and laboratory	266,117.04
SUB-TOT	AL	658,341.18
TOTAL		1,629,221.58

TOTAL INDI. COST	TOTAL COST	UNIT COST
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