PROJECT : Upgrading of ARC Building (CY 2019)

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	CENT	TOTAL	_ MARK-UP		TOTAL	TOTAL	UNIT
Item No.	ITEM/DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	DIRECT COST	CONT.	ОСМ	PROFIT	%	VALUE	VAT	INDI. COST	COST	COST
Α	GENERAL REQUIREMENTS																
1	Mobilization/Demobilization	1	lot														
2	Bonds/Insurance	1	lot														
3	Temporary Facilities	1	lot														1
4	As-Built plan	1	lot														1
5	Project Billboard	1	lot														1
	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
1	Cabinet (A-1) along the Hallway (0.50m x 5.00m x 2.50m)	1	set														<u> </u>
	wooden cabinet w/ aluminum glass door																1
2	Cabinet (A-2) (0.50m x 0.60m x 1.80m) wooden	1	set														1
	cabinet with aluminum glass door																1
3	Cabinet (A-3) (0.60m x 0.30m x 1.00m) wooden	1	set														
	cabinet with sliding glass																1
4	Cabinet (A-4) (0.30m x 2.00m x 1.00m) wooden	1	set													1	1
	cabinet with sliding glass															1	1
5	Open shelves - 1 (A-5) (0.60m x 0.60m x 1.20m)	1	set														
	wooden shelves															1	1
6	Open shelves -2 (A-5) (0.60m x 0.60m x 1.20m)	1	set													1	1
	wooden shelves															1	1
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																· <del></del>
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									
	tables and shelves									
1	Long working table (0.57m x 0.78m x 2.30m)	2	sets							
	wooden laminated (HPL)									
2	Small working table (0.70m x 1.20m x 0.77m)	4	sets							
	wooden laminated (HPL)									
3	Work table (1.00m x 1.50m x 0.80m)	2	sets							
	wooden laminated (HPL)									
4	Working table with C.O (0.70m x 2.30m x 0.78m)	2	sets							
	wooden laminated (HPL)									
5	Big open shelve (0.40m x 1.80m) wooden	1	set							
	Sub-total									
B.3	UPGRADING OF RADIOECOLOGY LABORATORY									
B.3.1	Fabrication and installation of the following working									
<u> </u>	table with sink, counter table and center lab. Table									
1	Wooden working table with sink (0.60m x 0.80m x 2.00)	1	set							
	38mm thk epoxy resin top finish including sink and									
<u> </u>	splashboard w/ complete accessories nad fittings (wt-1)									
2	Acrylic Pegboard (0.60m x 0.90m x 25mm (i) thk)	5	sets							

3	Wooden working table w/ sink (0.60m x 0.80m x 1.50m)	1	set										
-	38mm thk epoxy resin top finish including sink and	'	361										1
	splashboard w/ complete big goose type faucet,												1
													<del>                                     </del>
	accessories and fittings (wt-2)												1
	Wooden working table with sink (0.60m x 0.80m x 2.00m)	1	set										-
	38mm thk epoxy resin top finish including sink and												<del>                                     </del>
	splashboard with complete big goose type faucet,												1
	accessories and fitting (wt-3												1
	Wooden working table with sink (0.60m x 0.80m x 3.00m)	1	set										
	38mm thk epoxy resin top finish including sink and												
	splash board with complete big goose type faucet,												
	accessories and fittings (wt-4)												
	Wooden working table w/ double sink (0.60m x 0.80m x	1	set										
	2.00m) 38mm thk epoxy resin top finish including sink												
	and splashboard w/ complete big goose type faucet,												
	accessories and fittings (wt-5)												
7	Wooden counter table (0.70m x 1.70m x 0.92m)	9	sets										
	1" thk solid epoxy resin top, gray to light gray color,												
	dursurt brand w/ stainless steel frame and legs												
8	Wooden center lab table (1.50m x 1.50m x 1.80m)	1	set										
	38mm thk epoxy resin top finish including sink and												
	laminated finish (HPL) with drawers and doors cabinet												
	on both side												
9	PROVISION OF CONCRETE TABLE W/ SINK (2 SETS)												
9.1	6" x 8" x 16" ordinary CHB'	36	pcs										
9.2	12mmØ x 6.00m def. bar	2	рс										
9.3	10mmØ 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										
	accessories and fittings												
9.7	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										
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10.2	2"Ø x 10' S-1000 Neltex PVC pipe	3	pcs							
	3"Ø PVC Elbow Neltex	8	pcs							
-	3"Ø PVC wye Neltex	3	pcs							
	6" x 6" stainless steel floor drain	3	pcs							
-	PVC cement	1	lit							
	3"Ø PVC C.O	2	рс							
-	3"Ø x 2"Ø PVC wye	2	рс							
	1/2"Ø x 12' PPR pipe "Mega green or equivalent"	8	рс							
	Asstd. PPR Fittings	15	pcs							
	1/2"Ø PPR brass gate valve	5	pcs							
	Stainless steel "Hose bibb" Pozzi or equal	2	pcs							
	Chipping works & concrete cutting of floor	18	mtrs							
	Concrete restoration	1	lot							
	Epoxy paint restoration (5 coats w/ silica sand)	6	sqm							
	3 Hp Split type aircon, ceiling mounted, Inverter, Panasonic	1								
10.16	brand	1	unit							
	Sub-total									
B.4	UPGRADING OF HPRS AND RADON LABORATORY									
	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							
	Painting w/ surface preparation	10	sqm							
	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			 	 			 

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	1/2" x 4 x 8 ordinary plywood	4	pcs										1
6.9	Asstd. Coco lumber	180	bd.ft										-
	Asstd. C.W Nail	5	kgs										<b> </b>
6.11	3/4" Crashed gravel	4	cu.m										<u> </u>
7	CARPENTRY WORKS												
7.1	10mm x 1.2 x 2.4 Gypsum Board	12	pcs										
	1" x 2" x 16' metal furring "JEA Brand"	20	pcs										<u> </u>
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										
	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										
8. 10	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										
	G.A 16 x 2" x 4" metal c-purlins	10	pcs										
	12mmØ x 6.00m plain round bar (Sagrod)	2	pcs										
9.6	12mmØ Turn buckle	2	pcs										1
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9.7	4"Ø Cutting disc 4	pcs										
9.8	4"Ø Grinding disc 2	pcs										
9.9	12"Ø Cutting dics	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	set										
	aluminum with 1/4" thk broung glass											
10.2	(0.40m x 1.20m) Aluminum analok sliding window	set										
	with 1/4" thk broung glass											
10.3	(0.40m x 2.00m) Aluminum analok sliding window	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)	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	set										
	mirrorized w/ strainer											
16.2	Epoxy A and B	lit					 		 			
16.3	Big Goose type faucet "Pozzi" 2	set										
16.4	Flexible stainless pipe 4	pcs										
16.5	Angle valve 4	pcs										
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16.6		56	pcs										
16.7	(0.60m x 0.60m) Synthetic granite floor tiles	12	-										
-	ABC tile adhesive		bags										
16.8	6" CHB Ordinary	80	pcs										
16.9	Portland cement	15	bags										<b> </b>
16. 10	White sand	2	cu.m										<del>                                     </del>
16.11	12mmØ x 6.00m def. bar	20	pcs										<b></b>
16.12	G.A 16 G.I wire	2	kgs										<u> </u>
16.13	Aluminum tile trim (heavy duty)	10	pcs										<u> </u>
16.14	PVC Door cabinet (0.70m x 4.20m) with	2	set										1
	pvc jamb (12 doors)												
16.15	Concrete (1:2:4) mixture	1	cu.m										1
16.16	Painting	20	sqm										İ
16.17	Chipping	1	lot										1
	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
1.2	1" x 2" x 16' Metal furring	6	pcs										1
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										
	Repair of electrical lightings (replace of lightings)												
	flourescent fixtures recess type w/ louvers (2x40w)	2	set										1
3	INSTALLATION OF ANGULAR BAR AIRCON												1
	SUPPORT BRACE (7 SETS)												ĺ
3.1	2" x 2" x 3/16" x 20' Angular bar	7	pcs										
	Welding rod	4	kg	İ									
3.3	Painting	7	pcs	İ									
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												1
	w/ 1/4" thk bronze glass w/ complete accessories												
	(1.86m x 2.70m) double analok aluminum door frame	1	set										
	w/ 1/4" thk bronze glass w/ complete accessories												
L	W/ 1/7 LIIK DIGIZE GIASS W/ COMPLETE ACCESSONES		1			1	l	l	l	l	l	l .	

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	w/ transom on top of door.												<b> </b>
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												1
4.1	(1.04m x 1.75m) PVC roll-up blinds (same as existing)	12	set										
	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		00.								
B.8	INSTALLATION OF EMERGENCY SHOWER AT										
	BASEMENT, GROUND FLOOR, SECOND FLOOR.	2	set								
	Basement (Emergency shower w/ complete accessories) stainless steel same as existing		SEL								
		2									
1.1	1/2"Ø PPR pipes & fittings w/ gate valve and connect to		set								
	nearest existing water lines										
	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										
	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								
	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	Demolition of existing dilapidated storage house	1	lot								
	Hauling and disposal of debris	1	lot								
	Removal of existing asphalt membrane	1	lot								
	waterproofing and re-installation										
1.4	Chipping of floor and wall	1	lot								
	REINFORCEMENT CONCRETE AND MASONRY WORKS										
2.1	2 000 poi congreto	3.5	cu.m								
2.2	3,000 psi concrete	56	pcs								
2.3	10mmØ x 6.00m def. bar	14	pcs						1	<del> </del>	
2.3	12mmØ x 6.00m def. bar										
	16mmØ x 6.00m def. bar	6	pcs						1		
2.5	G.A 16 G.I wire	10	kgs								

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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.	' sqm											
3.2	Exterior ceiling (5.5mm ficem board w/ metal furring) 21.	sqm											
3.3	12mm x 1.2mm x 2.44m Ficem board	pcs											
3.4	Black screw 500	pcs											
4	STRUCTURAL & METAL WORKS												
4.1	2" x 2" x 3/16" x 20' Angular bar	pcs											
4.2	1'/2" x 1'/2" x 3/16" x 20' Angular bar	pcs											
4.3	Welding rod 1	box											
4.4	G.A 16 x 2" x 4" x 20' B.I C.purlins	pcs											
4.5	12mmØ x 6.00m plain round bar 2	pcs											
4.6	Cutting disc 4"Ø	pcs											
4.7	Grinding disc 4"Ø 2	pcs											
4.8	12"Ø Cutting disc	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	set											
	tubular pipe w/ aluminum expanded screen inside												
	( 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	set											
4.15	"Yale" Stainless Steel Door lockset	set											
4.16	"Stanley" Heavy duty door closer	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	pcs											
5.3	(1.22m x 2.44m x 0.40mm) Pre-painted plaint sheet	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       1         6.1       Painting of concrete wall w/ surface preparation w/       120 sqm         at least three (3) coats latex paint       45 sqm         6.2       Painting of ceiling w/ surface preparation w/ at least       45 sqm         three (3) coats latex paint including fascia board       1         B.11       UPGRADING OF CARAGEENAN PILOT LAB.         1       SITE WORK	
5.7 Concrete nail  5.8 Black screw  100 set  6 PAINTING WORKS  6.1 Painting of concrete wall w/ surface preparation w/ 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	
5.8 Black screw 100 set 100 se	
6 PAINTING WORKS 6.1 Painting of concrete wall w/ surface preparation w/ 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	
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	
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	
Sub-total	
B.11 UPGRADING OF CARAGEENAN PILOT LAB.  1 SITE WORK	
1 SITE WORK	
1.1 Removal of existing asphalt membrane 1 lot	
waterproofing and re-installation	
1.2 Chipping of floor and walls	
2 REINFORCED CONCRETE AND MASONRY WORKS	
<b>2.1</b> 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	
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 7	
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	
4.2 11/2" x 11/2" 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	

4.9	
4-10   Semilor turn bookle	
Act   And codic paint	
1-12   Paint Burder   2   gol	
4.19   Paint brush	
4.14   (0.40m x 1.30) ceiling re-installation 1*x*1*1-2mm   5   set	
A.15   (0.50m x 2.00m) analok aluminum siding window   2   set	
4.15   (0.50m x 1.20m) analok aluminum sliding vindow	
4.16 (0,50m x 1,20m) analok aluminum sliding window 2 set 1 (0,90m x 2,10m) Steel door wi jamb CA 16 G.I sheet 2 set 1 (0,90m x 2,10m) Steel door wi jamb CA 16 G.I sheet 2 set 1 (0,90m x 2,10m) Steel door wi jamb CA 16 G.I sheet 2 set 1 (0,90m x 2,10m) Steel door wi jamb CA 16 G.I sheet 2 set 1 (0,90m x 2,10m) Steel door wi jamb CA 16 G.I sheet 3 set 1 (0,90m x 2,10m) Steel door wi jamb CA 16 G.I sheet 4 pcs (0,70m x 2,10m) Steel door wi jamb CA	
4.17   0.00m x 2.10m) Steel door wil jamb G.A. 16 G.I sheet   2   set	
With honey comb insulation inside (3 costs epoxy paint)	
w/ 5-4" x 4" heavy duty staless steel hinges   3 set   1   1   1   1   1   1   1   1   1	
4.19   "Yale" Stainless Steel Door lockset   3   set	
4.19   Stanley Heavy duty door closer   3   set	
4. 20 (0.70m x 2.10m) Shed door w/ jamb G.A 16 G.I sheet	
W/ honey comb insulation inside (3 coats epoxy paint)   W/5-4" x 4" heavy duty stalless steel hinges   W/5-4" x 4" he	
W 5-4" x 4" heavy duty stalless steel hinges   S   TINSMITHRY WORK   S   S   S   S   S   S   S   S   S	
STINSMITHRY WORK	
5.1	
None span roofing "Green"	
5.2   (1.22m x 2.44m x 0.40mm) Pre-painted plain sheet   9   pcs	
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   Itr	
5.6       Metal Texscrew       500       pcs	
S.7   Black screw   100   pcs	
Salar Solet   Salar Solet	
5.9 0.10m x 0.50m x 0.60mm thk metal spandrel pre-painted 80 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. 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. 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	
5.11     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	
5.12     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	
5.13     4"Ø S-1000 PVC pipe "Neltex"     12 pcs       5.14     4"Ø PVC elbow     12 pcs	
5.14 4"Ø PVC elbow 12 pcs 12 pcs 13 pcs 14 pcs 15 p	
12.170 0.001	
5.15 PVC cement 1 lit	
5.16 Tox w/ screw 100 pcs 100 pcs	
5.17 Blind rivets 3 box	
5.18 Miscelleneous 1 lot	

6	PAINTING WORKS										
		200	sqm			1					
`	Concrete walls w/ surface praparation	30	sqm			-					
	Ficem board ceiling including fascia w/ surface preparation	30	əyııı			-					
	INSTALLATION OF ADDITIONAL 2 SET PVC										
	DOWNSPOUTS ON EXISTING CARRAGEENAN BLDG.										
	4"Ø S-1000 PVC pipe "Neltex"	6	pcs								
	4"Ø PVC elbow	6	pcs								
	Vulcaseal	1	lit								
	PVC cement	1/4	lit								
7.5	Steel scaffolding (rental)	1	lot								
	Sub-total										
	UPGRADING OF BASEMENT HALLWAY										
	Replace warm lights to day lights (Pin lights)	19	pcs								
	Rectification of concrete wall cracks (Verify Actual)	1	lot								
3 p	Repainting of concrete walls	417	sqm								
	Repair of damage ceiling (Acoustic board)										
4 2	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								
- I	pipes, column and beams										
- (	(2' x 2' white acoustic board) w/ white metal t-runner frame										
	at 0.60m O.C B.W with metal hanger										
	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 l	UPGRADING OF NATAS LABORATORY										
1 <sub>F</sub>	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										
1.5										 	ì

			1			I	I	I		1	1	I	<del>,                                    </del>
	connect to nearest existing												<del></del>
4	Dismantling of existing exhaust fan & disposal	1	set										<del> </del>
	(NATAS prep. Lab.)												ļ
5	Dismantling of existing exhaust fan & disposal	2	set										<del> </del>
	(Isotope hydrology)												
6	Repainting of walls and ceiling of Isotope hydrology	85	sqm										<u> </u>
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												<u> </u>
7.2	Painting ( 3 coats ) wall & ceiling	50	sqm										
7.3	10"Ø Exhaust fan w/ ducting	1	set										1
7.4	Wooden flush door (HPL) laminated finish	1	set										 
7.5	Stainless steel hinges ( 3'/2" x 3'/2" )	4	pcs										<u> </u>
7.6	Door lockset "YALE"	1	set										<u> </u>
7.7	Door closer heavy duty (stanley)	1	set										<u> </u>
7.8	2" x 6" (0.80m x 2.10m) G.A 16 steel jamb	1	set										1
	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										1
	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												1
	frame door w/ 1/4" thk clear glass												I
	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										<u> </u>
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										 · <del></del>
1.7	Stair Nosing (same existing)	2	рс										_ <del></del>
1.8	Epoxy Adhesive A&B	1	lit										
1.9	Tox w/ Screw	12	рс										1
1.10	(0.60m X 0.60m) Granite floor tiles (same finish)	90	pcs										ı
1.11	ABC Tile Adhesive	9	bag										1
1.12	ABC Tile Grout	4	bag										ı
									•		•		

1.13	Postland On sour	6	bag			Ī					
	Portland Cement	3	gal								
_	Ready Fix Adhesive	3	gai								
	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								
	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										
	PAINTING WORKS FOR REACTOR POOL CONCRETE SHIELDING										
	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										
	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.								
	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 <sup>2</sup> THHN/THWN Cable	99	m								
1.8	14 mm <sup>2</sup> 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		2	sets							
	Three Gang Switch									
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 <sup>2</sup> THHN/THWN wire	90	m							
2.14	3.5 mm <sup>2</sup> 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									
	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 <sup>2</sup> THHN/THWN wire	75	m							
3.12	3.5 mm <sup>2</sup> 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, Bolton 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	Airean sudate	2	sets								
	Aircon outlets	13	sets								
	Duplex Convenience outlet with cover and ground	25	pcs.								
	15mm RSC pipe	7	pcs.								
	50mm RSC pipe	60	sets								
	15mm RSC locknut and bushing	7	sets								
	50mm RSC locknut and bushing	1	pc								
	50mm RSC condulet	3	<del></del>								
	50mm RSC elbow	4	pcs.								
	50mm RSC coupling	60	pcs.								
	30 mm² THHN/THWN Cable	20	1								
	14 mm² THHN/THWN Cable		m								
	5.5 mm <sup>2</sup> THHN/THWN wire	2	rolls								
	3.5 mm² THHN/THWN wire	1	roll								
	2.0 mm <sup>2</sup> THHN/THWN wire	1	roll								
	Mica tube, 15mmø	20	m								
	Pullboxes pre-painted with cover (350mmx350mmx200mm)	3	set								
4. 20 N	Miscellaneous (support for rsc pipes and fittings)	1	lot								
	Sub-total										
	Supply and installation of 1 unit Pressure water tank and 2 units ceiling exhaust fans at the RBA laboratory Building.										
5.1 <sub>1</sub>	15mm RSC pipe	2	pcs.								
5.2	15mm RSC elbow	4	pcs.								
5.3 <sub>1</sub>	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		 	· ·	 				
<b>5.9</b> 5	5.5 mm <sup>2</sup> THHN/THWN wire	30	m								
<b>5. 10</b> 3	3.5 mm <sup>2</sup> THHN/THWN wire	15	m								
5.11 <sub>N</sub>	Mica tube	1	m								
5.12 <sub>1</sub>	12"Ø Ceiling type Exhaust fan (PANASONIC)	2	sets	$\Box$					]		
5.13	12 & Centry type Extraustrant (PANASONIC)										
	Miscellaneous (concreting of RSC pipe)	1	lot								
5 4 4 F			lot set								
5 4 4 F	Miscellaneous (concreting of RSC pipe) Pressurized watertank (Galvanized) 40/60 Psi - 42 gals.	1									
5.14 F	Miscellaneous (concreting of RSC pipe) Pressurized watertank (Galvanized) 40/60 Psi - 42 gals. capacity w/ 1HP motor (made in japan or equal)	1									

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	3 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 <sup>2</sup> THHN/THWN wire	58	m							
7.4	3.5 mm <sup>2</sup> THHN/THWN wire	29	m							
7.5	20 mmØ RSC pipe	9	pcs.							
7.6	20 mmØ RSC elbow	3	pcs.							
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 <sup>2</sup> THHN/THWN wire	64	m							
7.13	2.0 mm <sup>2</sup> 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 <sup>2</sup> THWN wire, stranded (100m/roll)	1.5	rolls							
8.4	3.5 mm <sup>2</sup> 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 <sup>2</sup> 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	5.5mm <sup>2</sup> wires THHN/THWN	2	rolls								
	Miscellaneous (RSC pipes support/hangers and screws)	1	lot								
	Sub-total										
TOTAL											