

DRN: AS-BGMD-SS-TOR-21-05-71854-S

"ANNEX H"- MINIMUM QUANTITIES W/ SPECIFICATION

Name of Project: PROPOSED DESIGN AND BUILD OF FOUR (4) STOREY DSWD OFFICE BUILDING WITH ROOF DECK			Location: 10mN45°W OF MALASAKIT BUILDING, DSWD-CENTRAL OFFICE, IBP ROAD, CONSTITUTIONAL HILLS, BRGY. BATASAN, QUEZON CITY		
Total Project Cost:	PHP 180,000,000.00		Project Duration:	360 CALENDAR DAYS	
Source of Fund:	General Administration and Support Services Group Fund (Capital Outlay)		Mode of Procurement:	COMPETITIVE BIDDING	
Date of POW:	01 March 2021	Date Revised :	19 May 2021	Source of Manpower:	OUTSOURCE

Note:

1. Additional line items may be added in Annex H given that the purpose and use of the added items is clearly discussed in the construction methodology subject for evaluation and assessment.
2. Items indicated in herein may be replaced with other items given that the purpose or intention for the replaced items shall be served and is clearly discussed in the construction methodology subject for evaluation and assessment. All modifications in a way of deletion and reduction in sub-item and quantities shall be equivalent in cost of the replaced items.
3. Several items indicated in "Annex H" are the required minimum quantities in Detailed Cost Estimate. Quoting above the respective minimum quantities per item is allowed. However, quoting below the respective required minimum quantities per item shall be grounds for disqualification.
4. Items indicated in Annex-H under the following sections may be reduced in quantities of up to 5% lower than the indicated quantities herein. Quoting above the respective indicated quantities per item is allowed. However, quoting below the acceptable 5% reductions in quantities shall be grounds for disqualification:
 - i. Section IX: Carpentry Works
 - ii. Section X: Fabricated Materials and Hardware Works
 - iii. Section XI: Painting Works
 - iv. Section XIII: Structural Steel Works
 - v. Section XV: Electronics and Communication Works
 - vi. Section XVII: Road networks and Drainage System
5. All other items in "Annex H" under sections that are not enumerated above shall have the required minimum quantities. Quoting above the respective minimum quantities per item is allowed. However, quoting below the minimum quantities shall be grounds for disqualification.

ITEM NO.	ITEM DESCRIPTION/ SPECIFICATION	QUANTITY	UNIT	UNIT MATERIAL COST	TOTAL COST
I.	OTHER GENERAL REQUIREMENTS				
A.)	Mobilization and Demobilization	1.0	LS.		
	Labor Cost-----				
	Equipment Cost-----				
	A. (Sub-Total)				

B.)	Provision of Temporary Facilities/ Utilities	300.00	SQ.M		
1.1	Provision of Facilities for Engineers/ Site Office (in accordance to the DPWH Blue book requirements)	50.0	Sq.m		
1.2	Provision of Temporary Workers Quarter's and Materials Storage.	70.0	Sq.m		
1.3	Provision of Temporary Fence within site office, workers quarters and service working area.	120.0	Li.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					B. (Sub-Total)
C.)	Provision of Waring Signages, Caution signages and DSWD Project Signboard	1.0	LS.		
1.1	Warning/Caution signages	15.0	Sq.m		
1.2	DSWD Project Signboards	2.9	Sq.m		
1.3	COA Bill Boards	2.9	Sq.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					C. (Sub-Total)
D.)	Construction Safety and Health	1.0	LS.		
1.1	Hards hat	20.0	Pairs		
1.2	Safety Gloves	20.0	Pairs		
1.3	Safety Boots	20.0	Pairs		
1.4	Safety Shoes	20.0	Pairs		
1.5	COVID-19 Mask including the medical certificate for 15 workers ranging its age from 45 yrs old to 59 yrs old.	1.0	Lot.		
1.6	Medicine Cabinet w/ first aid kit (20pcs-1Gal Alcohol,5pcs- 20ml Povidone Iodine,Micropore, 100pcs-500gParacetamol tablets, 5pcs-Ice bag, Emergency Flash light, 50Pcs-Loperamide tablets,Caugh medicine,100g Cottons, 3box-Bandage, 3box-Band Aide) Note: Refer to the DOH Health Protocol Guidelines for COVID-19 Compliance.	1.0	Lot		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					D. (Sub-Total)

	E.)	Geotechnical Exploration, as Confirmatory of Soil Bearig Capacity in the site (Provision of Signed and Sealed Geotechnical Report)	1.0	LS.		
	1.1	Geotechnical Exploration, as Confirmatory of Soil Bearig Capacity in the site (Provision of Signed and Sealed Geotechnical Report)	1.0	L.s		
		Material Cost-----				
		Labor Cost-----				
		Equipment Cost-----				
					E. (Sub-Total)	
	F.)	Conducting Relocation Survey as Confirmary Lot survey of DSWD-CO compound and actual location of Proposed Building	1.0	LS.		
	1.1	Relocation Survey as Confirmary Lot survey of DSWD-CO compound and actual location of Proposed Building including provision of Relocated Plans signed and sealed by the Lisence Geodetic Engineer	1.0	Lot.		
	1.2	Total Station, Fast and accurate new EDM,Bluetooth communications,Advanced angle accuracy, Long battery life – 14 hours, Rugged, waterproof design with IP66 rating, 500m long-range reflectorless measurement, 50,000 point internal memory, able to measure up to 4,000m at 1.5mm + 2ppm accuracy, to standard prisms, and can measure in reflectorless mode up to 500m at 2mm + 2ppm accuracy, beam width of 13mm at 30m and the bright red laser dot pinpoint features with ease, cable-free to data controller	1.0	Assy.		
		Material Cost-----				
		Labor Cost-----				
		Equipment Cost-----				
					F. (Sub-Total)	
SUB - TOTAL (I.OTHER GENERAL REQUIREMENTS)						
II. DISMANTLING AND REMOVAL WORKS						
	A.)	Dismantling and removal of existing obstruction utilitites in the site	1	LS.		
		Material Cost-----				
		Labor Cost-----				
		Equipment Cost-----				
					A. (Sub-Total)	
SUB - TOTAL (II.DISMANTLING AND REMOVAL WORKS)						

III. EARTHWORKS					
A.)	Site Clearing and Grubbing (Building lot area including roadnetwork)	1,200.0	SQ.M		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					A. (Sub-Total)
B.)	Structural Excavation	2,200.0	CU.M		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					B. (Sub-Total)
C.)	Embankment from Borrow	3,000.0	CU.M		
1.1	Suitable Soil in accordance to DPWH Bue book requirements	3,000.0	Cu.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					C. (Sub-Total)
D.)	Gravel Fill/ Bedding including Septic tank and Powerhouse	197.0	CU.M		
1.1	3/4" Gravel with 25% Shringkage factor	197.0	Cu.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					D. (Sub-Total)
E.)	Unsuitable Excavation soil (Disposal of Excavated Soil)	2,200.0	CU.M		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					E. (Sub-Total)
SUB - TOTAL (III.EARTHWORKS)					
IV. TERMITE CONTROL WORKS					
A.)	Soil Poisoning of entire Building including powerhouse	240.0	SQ.M		
1.1	Soil Poisoning	240.0	L		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					A. (Sub-Total)
SUB - TOTAL (IV.TERMITE CONTROL WORKS)					

V. REINFORCING STEEL BAR WORKS					
A.)	Fabrication/erection and setting-up of Reinforcing bars for foundation footings, column footings, columns, Beam, Slab on fill, slabs, stair, septic tank, powerhouse, manholes, side walks & shearwalls	340,954.0	KGS.		
1.1	10mmØ Standard x 6m Def. Bars, Grade 40	89,838	Kgs.		
1.2	12mmØ Standard x 6m Def. Bars, Grade 40	46,478	Kgs.		
1.3	16mmØ Standard x 6m RS Bars, Grade 60	4,730	Kgs.		
1.4	20mmØ Standard x 6m RS Bars, Grade 60	4,730	Kgs.		
1.5	25mmØ Standard x 6m RS Bars, Grade 60	195,178	Kgs.		
1.6	#16 Galvanized Iron	200	Kgs.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
				A. (Sub-Total)	
SUB - TOTAL (V.REINFORCING STEEL BAR WORKS)					
VI. FORMS AND FALSE WORK					
A.)	Form,False works,braces,ribs and setting-up for foundation footings, column footings, columns, Beam, slabs, stair, septic tank, powerhouse, manholes and shearwalls/concrete walls	4,250.0	SQ.M		
1.1	Phenolic Board (3/4" x1.2m x 2.4m)	230	Pcs.		
1.2	Phenolic Board (1/2" x1.2m x 2.4m)	150	Pcs.		
1.3	Good Lumber	4500	Bd.ft		
1.4	H-Frame 1.7 x 1.2m set(2pcs. H-frames, 4pcs. Diagonal cross braces, 4pcs. Horizontal braces, 8pcs. Joint pins)	20	Sets.		
1.5	3.8m full extension Shoring Jack	62	Pcs.		
1.6	0.6m Adjustable U-head Jack	80	Pcs.		
1.7	0.6m Adjustable Base Jack	80	Pcs.		
1.8	1-1/2" x 6.0m G.I Pipe	62	Pcs.		
1.9	1-1/2" x 4.0m G.I Pipe	16	Pcs.		
1.10	1-1/2" x 3.0m G.I Pipe	32	Pcs.		
1.11	1-1/2" x 1.0m G.I Pipe	210	Pcs.		
1.12	0.6m Tie Rod	230	Pcs.		
1.13	Round Wing Nut	239	Pcs.		
1.14	Consumables (5% of Materials Cost)	1	Ls.		

Material Cost-----	
Labor Cost-----	
Equipment Cost-----	
A. (Sub-Total)	

SUB - TOTAL (VI.FORMS AND FALSE WORK)

VII. STRUCTURAL CONCRETE WORKS

A.)	Concrete pouring for foundation footings, column footings, columns, Beam, Slab on fill, slabs, stair, septic tank, powerhouse, manholes & shearwalls	2,430.0	CU.M		
1.1	Structural Concrete, Ready Mix, Class AA(4000psi)	1,613.0	Cu.m		
1.2	Structural Concrete, Ready Mix, Class AA(3000psi)	810.0	Cu.m		
1.3	Lean Concrete	7.0	Cu.m		
1.4	One (1) Bager Mixer	1.0	Unit		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
A. (Sub-Total)					

SUB - TOTAL (VII.STRUCTURAL CONCRETE WORKS)

VIII. MASONRY WORKS

A.)	Chb laying, Chb partitions, wall Plastering, Flooring & wall Tiles installation, reinforcing steel, Water proofing and damp proofing of entire building including power house, pump hous & septic tank	21,900.0	SQ.M		
1.1	Damp Proofing (6-mils Polyethylene Sheet)	1,034.0	Sq.m		
1.2	Non Toxic Epoxy Waterproofing	161.0	Sq.m		
1.3	Fiber waterproofing entire roof slab (Membrane)	900.0	Sq.m		
1.4	Water Base Waterproofing	917.0	Sq.m		
1.5	100mm CHB Non Load Bearing Wall	3,200.0	Sq.m		
1.6	150mm CHB Non Load Bearing Wall (Including Reinforcing Steel)	3,500.0	Sq.m		
1.7	Polished Sythetic Granite Tile Floor Finish	2,500.0	Sq.m		
1.8	Honed Granite Tiles, Flamed Granite Tiles	200.0	Sq.m		
1.9	Unglazed Ceramic Tiles	700.0	Sq.m		
1.1	Plain Cement Floor Finish with Floor Hardener	40.0	Sq.m		
1.11	Plain Cement Floor Finish	500.0	Sq.m		
1.12	Plain Cement Wall Plastered Finish	10,500.0	Sq.m		

1.13	300X600mm Vitrified Glazed Tiles Wall Finish	700.0	Sq.m		
1.14	Granite Counter Top Finish	60.0	Sq.m		
1.15	Stone Wall Finish	65.0	Sq.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
				A. (Sub-Total)	

SUB - TOTAL (VIII.MASONRY WORKS)

IX.	CARPENTRY WORKS	(5% of Quantity = minimum Allowed percentage to decrease the quantity)
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A.)	Installation of Fiber Cement Ceiling Board, PVC Spanflex Ceiling, Pre-painted Spandrel ceiling and Aluminum Cladding Ceiling	4030.00	SQ.M		
1.1	7.0" widthx3.0m x8.0mm thk PVC Ceiling Panel (Design is subjected for approval)	3,000.0	Sq.m		
1.2	0.5 mm thk Aluminum Metal furring channel (W19mmxD50mmxH5m), 0.8 mm thk Aluminum Carrying Channel (W12mmxD38mmxH5mts), 0.5mm thk Wall angle, J-type Threaded Hanger clip, 3/8"Ø x 2" Drop-in Grip Concrete Anchor, Threaded Rod w/ nut , 3/8 "Ø x 2" Ordinary Bolt, 5/8"Ø x 3-1/2" Expansion Bolt, Gold Plated.	1.0	Ls.		
1.3	4.5mm thk Fiber Cement Ceiling Board	650.0	Sq.m		
1.4	0.5mm thk Painted Metal Spandrel	380.0	Sq.m		
1.5	Aluminum Cladding Ceiling	25.0	Sq.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
				A. (Sub-Total)	
B.)	Installation of Aluminum Composite Cladding	600.0	SQ.M		
1.1	Aluminum Composite Panel on metal studs, vertical and horizaontal element(Color is subjected for approval)	400.0	Sq.m		
1.2	3mm Thick Perforated aluminum on metal studs in staggered holes	200.0	Sq.m		
1.3	Other Accessories and Consumables	1.0	Ls.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
				B. (Sub-Total)	

C.)	Installation PVC Pipe Signage	1	LS.		
1.1	3"Ø x 3 mts PVC Pipe in Black	40	Pcs.		
1.2	3"Ø x1/4 Bend Elbow PVC Pipe in Black	120	Pcs.		
1.3	3"Ø x2"Ø Moulded Tee PVC Pipe in Black	60	Pcs.		
1.4	3"Ø PVC Coupling Pipe in Black	20	Pcs.		
1.5	PVC Pipe Cement 1000mL	8	Pcs.		
1.6	3'x4'x1/2" thk Marine Plywood	12	Pcs.		
1.7	2" Concrete nail	4	Kgs.		
1.8	3" Concrete nail	4	Kgs.		
1.9	Spray Paint Hammer Finish in Black (400 C.C)	8	Can		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					C.)(Sub-Total)
D.)	Insatallation of Hanging & Floor Cabinets Design is subjected for approval	756.48	SQ.M		
1.1	Cabinets on 3/4 Marine plywoods and S4S lumber including necessary accessories and consumables	756.48	Sq.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					D.)(Sub-Total)
E.)	Installation of Dry Wall Partitions	2,800.0	SQ.M		
1.1	4.5mm thk Ficem Board Double Wall Partition	2,800.0	Sq.m		
1.2	0.5 mm thk Aluminum Metal furring channel (W19mmxD50mmxH5m), 0.8 mm thk Aluminum Carrying Channel (W12mmxD38mmxH5mts), 0.5mm thk Wall angle, J-type Threaded Hanger clip, 3/8"Ø x 2" Drop-in Grip Concrete Anchor, Threaded Rod w/ nut , 3/8 "Ø x 2" Ordinary Bolt, 5/8"Ø x 3-1/2" Expansion Bolt, Gold Plated and other consumables.	1.0	Ls.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					1.1(Sub-Total)
SUB - TOTAL (IX.CARPENTRY WORKS)					

X.	FABRICATED MATERIALS AND HARDWARES	(5% of Quantity = minimum Allowed percentage to decrease the quantity)			
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A.)	Installation of fabricated solid doors, Glass doors, Aluminum doors, Wooden panel doors, hollow doors, Steel Door framed, Steel fire rated doors, Pressurized Laminated Wood doors, operable door, prefabricated doors and door jambs including the necessary part and accessories	1,064.00	SQ.M		
1.1	Frameless Swing Door with fixed double glass pannel with frosted sticker	75.00	Sq.m		
1.2	Aluminum Glass Door	1.00	Ls.		
1.3	Wooden Panel Door	30.00	Sq.m		
1.4	Hollow Core Flush Typ Door	50.00	Sq.m		
1.5	Fire Rated Fire Exit Door	60.00	Sq.m		
1.6	Steel Door framed with viewing glass panel and Steel Tubular Jamb	25.00	Sq.m		
1.7	Pressurized Laminated Wood Particles including Accessories	200.00	Sq.m		
1.8	Prefabricated Vinyl Door	20.00	Sq.m		
1.9	Operable Partition	100.00	Sq.m		
1.10	Door Jambs	52.00	Sets		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
A.)(Sub-Total)					
B.)	Installation of fabricated windows, Glass windows, Window with Aluminum frame, window with Steel framed, including the necessary part and accessories	1.00	LS.		
1.1	Sliding Window, 1/2" thick tempered glass in powder coated aluminum analok framing with frosted sticker. Dimension: (refer to the Approved plans)(lobby, office area & Pantry)	140.00	Sq.m		
1.2	Single Hung Window, 1/2" thick tempered glass in powder coated aluminum analok framing with frosted sticker. Dimension: (see approved plans) (executive toilet)	60.00	Sq.m		
1.3	Fixed Glass Wall, Window, 1/2" thick tempered glass in powder coated aluminum analok framing. Dimension: (refer to the approved plans) (executive office, main stair & clinic)	90.00	Sq.m		

1.4	Awning Window, 1/4" thick tempered glass in powder coated aluminum analog framing with frosted sticker. Dimension: (refer to the approved Plans) (office area and common CR)	30.00	Sq.m		
1.5	Awning Window, 1/2" thick tempered glass in powder coated aluminum analog framing with frosted sticker. Dimension: (refer to the approved Plans)	40.00	Sq.m		
1.6	Necessary accessories	1.00	Ls.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
B.)(Sub-Total)					
C.)	Installation of fabricated stainless steel handrails and room signages, building markers and mirrors	1.00	LS.		
1.1	Locksets (design is subjected for approval)	10.0	Set		
1.2	Hinges	64.0	Ls.		
1.3	Fabricated Open shelves on sloted angle bar and marine plywood (design is subjected for approval)	1.0	Ls.		
1.4	38 mmØ Stainless Steel Pipe, hairline finish (ramp)	30.0	L.m		
1.5	50 mm Square Bar	60.0	L.m		
1.6	50 mm x 100mm Stainless Tubular Steel	148.0	L.m		
1.7	50 mm x 75mm Stainless Tubular Steel	76.0	L.m		
1.8	25mm Square Steel Bars Horizontal Rails	344.0	L.m		
1.9	38 mmØ Stainless Steel Pipe, Hairline finish (hand grab for PWD toilet stall)	50.0	L.m		
2	19mm Vertical Square Bars	100.0	L.m		
2.1	6mm Thk Non-Skid Metal Nosing strip	200.0	L.m		
2.2	Facial Mirror	22.5	Sq.m		
2.3	Hardwares including Stainless Building Markers and Rooms Stainless Signages	1.0	Ls.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
C.)(Sub-Total)					

D.)	Installtion of fabricated Basic Primary Office furnitures	1.00	LS.		
1.1	Office System Panel with Glass Powder Coated Finished with metal framing and built-in wiring system for lan and electric outlet.	150.0	Sets.		
1.2	Office Table, Melamine Faced Chipboard Table top in light gray including Conference tables, visitors chair, office chairs and Executive table and chair.	150.0	Pcs.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
				D.)(Sub-Total)	
SUB - TOTAL (X.FABRICATED MATERIALS AND HARDWARES)					
XI. PAINTING WORKS (5% of Quantity = minimum Allowed percentage to decrease the quantity)					
A.)	Masonry/Concrete Painting walls, ceilings, Wood Painting for the cabinets, Soild Doors, Wooden Doors, Steel and Metal frames including doors and all fabricated hardwares.	18,550.0	SQ.M		
1.1	Masonry/Concrete Painting	12,050.0	Sq.m		
1.2	Wood Painting	6,220.0	Sq.m		
1.3	Metal Painting	280.0	Sq.m		
1.4	Consumables	1.0	Lot.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
				A.)(Sub-Total)	
SUB - TOTAL (XI.PAINTING WORKS)					
XII. SANITARY AND PLUMBING WORKS					
A.)	Installation of Sewer Lines system, Water line system, Sanitary and Plumbing fixtures, Storm Drainages, septic tank, and cistern water line system	1.0	LS.		
1.1	PVC Pipe, 150mm Ø x 3m, S-1000	45.0	Pcs.		
1.2	PVC Pipe, 100mm Ø x 3m, S-1000	62.0	Pcs.		

1.3	PVC Pipe, 75mm Ø x 3m, S-1000	37.0	Pcs.		
1.4	PVC Pipe, 50mm Ø x 3m, S-1000	137.0	Pcs.		
1.5	PVC Wye, 150mm Ø	6.0	Pcs.		
1.6	PVC Wye, 150mm Ø x 100mm Ø	37.0	Pcs.		
1.7	PVC Wye, 100mm Ø	51.0	Pcs.		
1.8	PVC Wye, 100mm Ø x 75mm Ø	17.0	Pcs.		
1.9	PVC Wye, 75mm Ø	132.0	Pcs.		
1.1	PVC Wye, 75mm Ø x 50mm Ø	15.0	Pcs.		
1.11	PVC Wye, 50mm Ø	55.0	Pcs.		
1.12	PVC Reducer, 100mm Ø x 75mm Ø	1.0	Pc.		
1.13	PVC Reducer, 100mm Ø x 50mm Ø	1.0	Pc.		
1.14	PVC Elbow, 150mm Ø x 45° bend	14.0	Pcs.		
1.15	PVC Elbow, 150mm Ø x 90° bend	9.0	Pcs.		
1.16	PVC Elbow, 100mm Ø x 45° bend	49.0	Pcs.		
1.17	PVC Elbow, 100mm Ø x 90° bend	60.0	Pcs.		
1.18	PVC Elbow, 75mm Ø x 45° bend	4.0	Pcs.		
1.19	PVC Elbow, 50mm Ø x 45° bend	104.0	Pcs.		
1.20	PVC Elbow, 50mm Ø x 90° bend	220.0	Pcs.		
1.21	Mesh Screen, 50mm Ø	2.0	Pcs.		
1.22	PVC Coupling, 150mm Ø	10.0	Pcs.		
1.23	PVC Coupling, 100mm Ø	17.0	Pcs.		
1.24	PVC Coupling, 75mm Ø	25.0	Pcs.		
1.25	PVC Sanitary Tap Tee, 50mm Ø	64.0	Pcs.		
1.26	PVC P-Trap, 50mm Ø	56.0	Pcs.		
1.27	PVC Clean-out w/ cover, 150mm Ø	5.0	Pcs.		
1.28	PVC Clean-out w/ cover, 100mm Ø	44.0	Pcs.		
1.29	PVC Clean-out w/ cover, 50mm Ø	16.0	Pcs.		
1.3	Single Branch Sweep Tee, 50mm Ø	80.0	Pcs.		
1.31	PVC Solvent, 400 cc	26.0	Pcs.		

1.32	Hangers/Brackets, 150mm Ø	2.0	Pcs.		
1.33	Hangers/Bracket Support	1.0	Pcs.		
1.34	Hangers/Brackets, 75mm Ø	6.0	Pcs.		
1.35	Hangers/Brackets, 50mm Ø	3.0	Pcs.		
1.36	Septic Vault Type E	2.0	Units		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
A.)(Sub-Total)					
B.)	Installation and laying of PPR Pipes and fittings for the Cold Water Supply line	1.0	LS.		
1.1	63mm Ø x 4m PPR Pipe, PN 16	20.0	Pcs.		
1.2	50mm Ø x 4m PPR Pipe, PN 16	20.0	Pcs.		
1.3	32mm Ø x 4m PPR Pipe, PN 16	30.0	Pcs.		
1.4	20mm Ø x 4m PPR Pipe, PN 16	50.0	Pcs.		
1.5	63mm Ø x 50mm Ø PPR Reducer	2.0	Pcs.		
1.6	63mm Ø x 32mm Ø PPR Reducer	4.0	Pcs.		
1.7	50mm Ø x 20mm Ø PPR Reducer	4.0	Pcs.		
1.8	32mm Ø x 20mm Ø PPR Reducer	18.0	Pcs.		
1.9	63mm Ø x 63mm Ø PPR Tee Equal	10.0	Pcs.		
1.1	20mm Ø x 20mm Ø PPR Tee Equal	20.0	Pcs.		
1.11	63mm Ø x 32mm Ø PPR Reducing Tee	10.0	Pcs.		
1.12	50mm Ø x 20mm Ø PPR Reducing Tee	35.0	Pcs.		
1.13	32mm Ø x 20mm Ø PPR Reducing Tee	95.0	Pcs.		
1.14	32mm Ø x 1/2" 20mm Ø PPR Female Treaded Tee	150.0	Pcs.		
1.15	50mm Ø x 1-1/2" PPR Male Treaded adaptor	20.0	Pcs.		
1.16	32mm Ø x 1" PPR Male Treaded adaptor	30.0	Pcs.		
1.17	20mm Ø x 1/2" PPR Male Treaded adaptor	30.0	Pcs.		
1.18	63mm Ø PPR Elbow	20.0	Pcs.		
1.19	50mm Ø PPR Elbow	20.0	Pcs.		
1.2	32mm Ø PPR Elbow	30.0	Pcs.		
1.21	20mm Ø PPR Elbow	130.0	Pcs.		
1.22	63mm Ø PPR Coupling	30.0	Pcs.		
1.23	50mm Ø PPR Coupling	10.0	Pcs.		
1.24	32mm Ø PPR Coupling	10.0	Pcs.		

1.25	20mm Ø PPR Coupling	4.0	Pcs.		
1.26	50mm Ø PPR Union Patente	5.0	Pcs.		
1.27	32mm Ø PPR Union Patente	10.0	Pcs.		
1.28	20mm Ø PPR Union Patente	18.0	Pcs.		
1.29	20mm Ø PPR Cap/ Plug	130.0	Pcs.		
1.3	50mm Ø Gate Valve	4.0	Pcs.		
1.31	32mm Ø Gate Valve	12.0	Pcs.		
1.32	20mm Ø Gate Valve	10.0	Pcs.		
1.33	Fusion	2.0	Pcs.		
1.34	Teflon	10.0	Pcs.		
1.35	Hangers and support & other miscellaneous items and consumables	1.0	Ls.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
B.)(Sub-Total)					
C.)	Storm Drainage System Downspout Piping Installation and provision of Catch Basin	1.0	LS.		
1.1	HDPE Pipe, 200mm Ø	460.0	L.m		
1.2	HDPE Pipe, 150mm Ø	282.0	L.m		
1.3	HDPE Wye, 200mm Ø	10.0	Pcs.		
1.4	HDPE Wye, 150mm Ø	45.0	Pcs.		
1.5	HDPE Elbow, 200mm Ø	12.0	Pcs.		
1.6	HDPE Elbow, 150mm Ø	15.0	Pcs.		
1.7	HDPE Reducer, 200mm Ø x 100mm Ø	8.0	Pcs.		
1.8	HDPE Reducer, 150mm Ø x 100mm Ø	8.0	Pcs.		
1.9	PVC Clean-out w/ cover, 100mm Ø	16.0	Pcs.		
2	Catch Basin - 1	7.0	Pcs.		
2.1	Catch Basin - 2	12.0	Pcs.		
2.2	PVC Pipe, 100mm Ø	18.0	Pcs.		
2.3	PVC Elbow, 100mm Ø x 90° bend	26.0	Pcs.		
2.4	PVC Solvent, 400 cc	5.0	Cans		

2.5	Canopy Drain Plate, 100mm Ø	39.0	Pcs.		
2.6	Deck Drain Plate, 100mm Ø	12.0	Pcs.		
2.7	Roof Deck Drain Plate, 100mm Ø	2.0	Pcs.		
2.8	Other Miscellaneous items and consumables	1.0	Lot		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
C.)(Sub-Total)					
D.)	Sanitary/ Plumbing Fixtures	1.0	LS.		
1.1	Water Closet - 2Pcs Elongted type, Dual Flush, with complete fittings and accessories (subjected for approval its design)	36.0	Sets.		
1.2	Bidet, Stainless Steel, American Standard or approved equal	36.0	Pcs.		
1.3	Wall Hung Lavatory with Faucet w/ complete fittings & Accessories	18.0	Sets.		
1.4	Under Counter Lavatory with Faucet and complete fittings & accessories	35.0	Sets.		
1.5	Urinal, waterless with included cartidge for six (6) months	17.0	Sets.		
1.6	Floor Drain Plate, 4" x 4" w/ strainer, Hi-grade stainless steel	90.0	Pcs.		
1.7	Stainless steel Grab Bar, L-shape, Flip-up/ Drop-down, 28mm- diam.	18.0	L.m		
1.8	Slop Sink Faucet	8.0	Sets.		
1.9	Other Miscellaneous items and consumables	1.0	Lot		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
D.)(Sub-Total)					
SUB - TOTAL (XII.SANITARY AND PLUMBING WORKS)					
XIII.	STRUCTURAL STEEL WORKS (5% of Quantity = minimum Allowed percentage to decrease the sub-item quantities)				
A.)	Fabrication, Welding and Erection of Trusses, Purlins, Sagrods, turnbukles, Tension Rods and Base/Gusset and Stiffener Plates.	42,942.0	SQ.M		
1.1	Structural Steel (Truss/Framing)	30,000.0	Kgs.		
1.2	Structural Steel (Purlins)	12,000.0	Kgs.		

1.3	Bolts	205.0	Kgs.		
1.4	12mm dia x 0.6m Sagrods with nuts and washers	380.0	Kgs.		
1.5	16mm dia Standard Turn Buckle	35.0	Kgs.		
1.6	16mm dia x 7.5 Tension Rod Cross Bracing	42.0	Kgs.		
1.7	Base/Gusset/Stiffenner Steel Plates	280.0	Kgs.		
1.8	Other Miscellaneous items and consumables	1.0	Lot		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
A.)(Sub-Total)					
B.)	Erection of Fabricated Trusses, Installation of Pre-Painted Rib-Type Roof Sheets, Flashings, Gutter, Fascia Flashing, Dome roof drains, Ridge rolls and Rockwool Blanket Insulation w/ foil.	1,380.0	SQ.M		
1.1	0.48mm thk Prepainted Rib-Type Roofing Sheet (Long Span)	580.0	Sq.m		
1.2	0.6mm thk Prepainted End Flashing	80.0	m.		
1.3	0.5mm thk Prepainted Customized GI Gutter Sheet	50.0	m.		
1.4	75mm dia Dome Type Stainless Strainer Roof Drain	100.0	Pcs.		
1.5	200x50x2mm steel Channel (Fascia Board)	180.0	m.		
1.6	Polycarbonate Panel	250.0	Sq.m		
1.7	Rockwool Blanket Insulation with Foil	550.0	Sq.m		
1.8	Other Miscellaneous items and consumables	1.0	Lot		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
B.)(Sub-Total)					
SUB - TOTAL (XIII.STRUCTURAL STEEL WORKS)					
XIV. ELECTRICAL WORKS					
A.)	Installation of Electrical rough-ins, Connectors and Electrical Accessories for the Entire Building, Power house, Main Distribution Panel, Low Voltage Switch Gear Feeders and Automatic Transfer Switch	1.0	LS.		
1.1	PVC Pipe, 90mm x 3m, Orange	47.0	Pcs.		

1.2	PVC Pipe, 65mm x 3m, Orange	33.0	Pcs.		
1.3	PVC Pipe, 50mm x 3m, Orange	53.0	Pcs.		
1.4	PVC Pipe, 32mm x 3m, Orange	33.0	Pcs.		
1.5	PVC Pipe, 25mm x 3m, Orange	88.0	Pcs.		
1.6	PVC Pipe, 20mm x 3m, Orange	3,870.0	Pcs.		
1.7	PVC Male Adapter w/ Lock Nut, 90mm	16.0	Pcs.		
1.8	PVC Male Adapter w/ Lock Nut, 65mm	14.0	Pcs.		
1.9	PVC Male Adapter w/ Lock Nut, 50mm	30.0	Pcs.		
1.1	PVC Male Adapter w/ Lock Nut, 32mm	14.0	Pcs.		
1.11	PVC Male Adapter w/ Lock Nut, 25mm	14.0	Pcs.		
1.12	PVC Male Adapter w/ Lock Nut, 20mm	4,950.0	Pcs.		
1.13	PVC Long Elbow, 90mm	16.0	Pcs.		
1.14	PVC Long Elbow, 65mm	14.0	Pcs.		
1.15	PVC Long Elbow, 50mm	30.0	Pcs.		
1.16	PVC Long Elbow, 32mm	16.0	Pcs.		
1.17	PVC Long Elbow, 25mm	14.0	Pcs.		
1.18	PVC Long Elbow, 20mm	1,220.0	Pcs.		
1.19	RSC Pipe with coupling, 40mm x 3m	64.0	Pcs.		
1.2	RSC Pipe with coupling, 32mm x 3m	32.0	Pcs.		
1.21	RSC Pipe with coupling, 20mm x 3m	8.0	Pcs.		
1.22	RSC Locknut with bushing, 40mm	32.0	Pcs.		
1.23	RSC Locknut with bushing, 32mm	16.0	Pcs.		
1.24	RSC Locknut with bushing, 20mm	4.0	Pcs.		
1.25	RSC Long Elbow, 40mm	16.0	Pcs.		
1.26	RSC Long Elbow, 32mm	14.0	Pcs.		
1.27	RSC Long Elbow, 20mm	4.0	Pcs.		
1.28	Wire gutter	1.0	lot		
1.29	15mm Flexible Metallic Conduit (1.5m per piece)	1,095.0	Pcs.		

1.3	PVC Junction Box with Cover, 4" x 4"	1,540.0	Pcs.		
1.31	PVC Utility Box, 4" x 2"	810.0	Pcs.		
1.32	Square Box, 4" x 4"	240.0	Pcs.		
1.33	Pull Box, 8" x 8" x 6"	25.0	Pcs.		
1.34	Fittings, C-clamp, PVC Solvent and Pull Wire	1.0	lot		
1.35	Cable Ladder, Ground to Fourth Floor	2.0	sets		
1.36	Cable Ladder, Generating Set to ATS	1.0	Set.		
Powerhouse					
1.37	PVC Pipe, 32mm x 3m, Orange	10.0	Pcs.		
1.38	PVC Pipe, 20mm x 3m, Orange	30.0	Pcs.		
1.39	PVC Male Adapter w/ Lock Nut, 32mm	4.0	Pcs.		
1.4	PVC Male Adapter w/ Lock Nut, 20mm	60.0	Pcs.		
1.41	PVC Long Elbow, 32mm	6.0	Pcs.		
1.42	PVC Long Elbow, 20mm	30.0	Pcs.		
1.43	RSC Pipe with coupling, 20mm x 3m	20.0	Pcs.		
1.44	RSC Locknut with bushing, 20mm	12.0	Pcs.		
1.45	RSC Long Elbow, 20mm	15.0	Pcs.		
1.46	15mm Flexible Metallic Conduit (1.5m per piece)	12.0	Pcs.		
1.47	PVC Junction Box with Cover, 4" x 4"	20.0	Pcs.		
1.48	PVC Utility Box, 4" x 2"	15.0	Pcs.		
1.49	Square Box, 4" x 4"	4.0	Pcs.		
1.5	Pull Box, 8" x 8" x 6"	2.0	Pcs.		
1.51	Misc. hardware, fittings, clamp, solvent, pull wire	1.0	Ls.		
1.52	RSC Pipe with coupling, 90mm x 3m	30.0	Pcs.		
1.53	RSC Locknut with bushing, 90mm	15.0	Pcs.		
1.54	RSC Long Elbow, 90mm	16.0	Pcs.		
1.55	Endbell, 90mm	10.0	Pcs.		
1.56	RSC Entrance Cap, 90mm	7.0	Pcs.		
1.57	Concrete Envelope, 250 x 400mm	12.0	M.		
1.58	Electrical Manhole, 1.17W x 1.48L x 1.42D m	2.0	Units		

1.59	Electrical Service Entrance Pedestal 5.5m H x 0.5m W x 0.35m T	1.0	Unit		
Main Distribution Panel & Low Voltage Switch Gear Feeders					
1.6	PVC Pipe, 32mm x 3m, Orange	30.0	Pcs.		
1.61	PVC Pipe, 20mm x 3m, Orange	30.0	Pcs.		
1.62	PVC Male Adapter w/ Lock Nut, 32mm	10.0	Pcs.		
1.63	PVC Male Adapter w/ Lock Nut, 20mm	6.0	Pcs.		
1.64	PVC Long Elbow, 32mm	6.0	Pcs.		
1.65	PVC Long Elbow, 20mm	2.0	Pcs.		
1.66	RSC Pipe with coupling, 20mm x 3m	6.0	Pcs.		
1.67	RSC Locknut with bushing, 20mm	6.0	Pcs.		
1.68	RSC Long Elbow, 20mm	2.0	Pcs.		
1.69	15mm Flexible Metallic Conduit (1.5m per piece)	6.0	Pcs.		
1.7	PVC Junction Box with Cover, 4" x 4"	6.0	Pcs.		
1.71	PVC Utility Box, 4" x 2"	2.0	Pcs.		
1.72	Square Box, 4" x 4"	1.0	Ls.		
1.73	Pull Box, 8" x 8" x 6"	10.0	M.		
1.74	Misc. hardware, fittings, clamp, solvent, pull wire	1.0	M.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
B.)(Sub-Total) (Sub-Total)					
B.)	Installation of Electrical Wires and Wiring Devices for the Entire Building, Power house, Main Distribution Panel, Low Voltage Switch Gear Feeders and Automatic Transfer Switch	1.0	LS.		
1.1	200mm ² THHN wire	291.0	M.		
1.2	80mm ² THHN wire	195.0	M.		
1.3	50mm ² THHN wire	570.0	M.		
1.4	50mm ² THHN wire (color white or gray only)	97.0	M.		
1.5	38mm ² THHN wire	195.0	M.		
1.6	30mm ² THHN wire	300.0	M.		
1.7	22mm ² THHN wire (color white or gray only)	65.0	M.		
1.8	14mm ² THHN wire	200.0	M.		
1.9	14mm ² THHN wire (color white or gray only)	113.0	M.		

1.1	8.0mm ² THHN wire	296.0	M.		
1.11	8.0mm ² THHN wire (color white or gray only)	240.0	M.		
1.12	5.5mm ² THHN wire	2,190.0	M.		
1.13	5.5mm ² THHN wire (color white or gray only)	140.0	M.		
1.14	3.5mm ² THHN wire	23,460.0	M.		
1.15	3.5mm ² THHN wire (color white or gray only)	12,345.0	M.		
1.16	Electrical Outlet, Universal Type, 2-Gang, 3-Prong (with grounding) including Cover Plate, (Screw type terminals)	319.0	Sets		
1.17	Floor Mounted Electrical Outlet, Universal Type, 2-Gang, 3-Prong (with grounding), (Screw type terminals)	131.0	Sets		
1.18	Heavy Duty Electrical Outlet, Universal Type, 2-Gang, 3-Prong (with grounding) including Cover Plate, (Screw type terminals), for Air Curtain Units	2.0	Sets		
1.19	3-gang Electrical Switch, Classic Series, 3-Gang including Cover Plate, (Screw type terminals)	116.0	Sets		
1.2	2-gang Electrical Switch, Classic Series, 2-Gang including Cover Plate, (Screw type terminals)	58.0	Sets		
1.21	1-gang Electrical Switch, Classic Series, 1-Gang including Cover Plate, (Screw type terminals)	42.0	Sets		
1.22	3-way Electrical Switch, Classic Series, 1-Gang including Cover Plate, (Screw type terminals)	26.0	Sets		
1.23	Electrical Tape, big size (16m)	90.0	Pcs.		
1.24	Electrical Rubber Tape (3/4" x 8 meters)	25.0	Pcs.		
Powerhouse					
1.25	250mm ² THHN wire	315.0	M.		
1.26	60mm ² THHN wire (color white or gray only)	110.0	M.		
1.27	14mm ² THHN wire	60.0	M.		
1.28	8.0mm ² THHN wire (color white or gray only)	20.0	M.		
1.29	5.5mm ² THHN wire	600.0	M.		
1.3	3.5mm ² THHN wire	450.0	M.		
1.31	3.5mm ² THHN wire (color white or gray only)	150.0	M.		
1.32	100mm ² Bare Copper Wire	90.0	M.		
1.33	Copper Ground Rod, 25mm x 3m	25.0	M.		
1.34	Solderless Connector (for 100mm ² Bare wire)	10.0	Pcs.		
1.35	Ground Rod Clamp, 60mm ² Wire	1.0	Pcs.		
1.36	Electrical Outlet, Universal Type, 2-Gang, 3-Prong (with grounding) including Cover Plate, (Screw type terminals)	5.0	Sets		
1.37	3-gang Electrical Switch, Classic Series, 3-Gang including Cover Plate, (Screw type terminals)	1.0	Sets		
1.38	2-gang Electrical Switch, Classic Series, 2-Gang including Cover Plate, (Screw type terminals)	2.0	Sets		
1.39	Electrical Tape, big size (16m)	5.0	Pcs.		

1.4	Electrical Rubber Tape (3/4" x 8 meters)	2.0	Pcs.		
Main Distribution Panel & Low Voltage Switch Gear Feeders and Automatic Transfer Switch					
1.41	250mm ² THHN wire	645.0	M.		
1.42	150mm ² THHN wire	225.0	M.		
1.42	125mm ² THHN wire	150.0	M.		
1.43	60mm ² THHN wire (color white or gray only)	215.0	M.		
1.43	38mm ² THHN wire (color white or gray only)	125.0	M.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
B.)(Sub-Total) (Sub-Total)					
C.)	Installation of Electrical Safety Circuit Breakers, Panel Boards with complete branches including ATS Breaker sets specified in the approved plans.	1.0	LS.		
1.1	(MDP1)Main: 300AT, 500AF, 3P,230V,Bolt-on	1.0	Set		
	Branches: 4 - 125AT, 175AF, 3P, 230V, Bolt-on				
	2 - 100AT, 150AF, 3P, 230V, Bolt-on				
1.2	(MDP2) Main: 600AT, 800AF, 3P,230V,Bolt-on	1.0	Set		
	Branches: 4 - 175AT, 255AF, 3P, 230V, Bolt-on				
	1 - 150AT, 255AF, 3P, 230V, Bolt-on				
	1 - 125AT, 175AF, 3P, 230V, Bolt-on				
1.3	(MDP3)Main: 1200AT,1600AF, P,230V,Bolt-on	1.0	Set		
	Branches: 4 - 350AT, 500AF, 3P, 230V, Bolt-on				
	1 - 200AT, 350AF, 3P, 230V, Bolt-on				
	1 - 150AT, 255AF, 3P, 230V, Bolt-on				
1.4	(MDP4)Main: 500AT, 800AF, 3P,230V,Bolt-on	1.0	Set		
	Branches: 1 - 350AT, 500AF, 3P,230V,Bolt-on				
	2 - 150AT, 255AF, 3P, 230V, Bolt-on				
	1 - 125AT, 175AF, 3P, 230V, Bolt-on				
1.5	(LP1), (LP2), (LP3), (LP4)	4.0	set		
	(Main:125AT, 175AF,3P,230V,Bolt-on				
	Branches: 22 - 20AT, 50AF, 2P, 230V, Bolt-on				
1.6	(DP1), (DP2), (DP3), (DP4)	4.0	Set		
	Main: 175AT, 225AF, 3P,230V,Bolt-on				
	Branches: 2 - 30AT, 50AF, 2P, 230V, Bolt-on				
	20 - 20AT, 50AF, 2P, 230V, Bolt-on				

1.7	(PPAC-1, PPAC-2, PPAC-3 & PPAC-4, PPAC-5, PPAC-6, PPAC-7, PPAC-8)	8.0	Set		
	Main: 150AT, 225AF, 3P, 230V, Bolt-on				
	Branches: 2 - 100AT, 150AF, 3P, 230V, Bolt-on				
	2 - 70AT, 100AF, 3P, 230V, Bolt-on				
1.8	(PPAV) Main: 50AT, 70AF, 3P, 230V, Bolt-on	1.0	Set		
	Branches: 2 - 40AT, 50AF, 2P, 230V, Bolt-on				
	3 - 30AT, 50AF, 2P, 230V, Bolt-on				
	1 - 20AT, 50AF, 2P, 230V, Bolt-on				
1.9	(PPC) Main: 50AT, 70AF, 3P, 230V, Bolt-on	1.0	Set		
	Branches: 4 - 30AT, 50AF, 2P, 230V, Bolt-on				
	2 - 20AT, 50AF, 2P, 230V, Bolt-on				
1.10	(PPMR) Main: 50AT, 70AF, 3P, 230V, Bolt-on	1.0	Set		
	Branches: 5 - 30AT, 50AF, 2P, 230V, Bolt-on				
	3 - 20AT, 50AF, 2P, 230V, Bolt-on				
1.11	(PP1) Main: 350AT, 500AF, 3P, 230V, Bolt-on	1.0	Set		
	Branches: 2 - 150AT, 225AF, 3P, 230V, Bolt-on				
	1 - 100AT, 150AF, 3P, 230V, Bolt-on				
	1 - 50AT, 70AF, 3P, 230V, Bolt-on				
	12 - 30AT, 50AF, 2P, 230V, Bolt-on				
1.12	(PP2, PP3)	2.0	Set		
	Main: 350AT, 500AF, 3P, 230V, Bolt-on				
	Branches: 2 - 150AT, 225AF, 3P, 230V, Bolt-on				
	2 - 100AT, 150AF, 3P, 230V, Bolt-on				
	10 - 30AT, 50AF, 2P, 230V, Bolt-on				
1.13	(PP4) Main: 350AT, 500AF, 3P, 230V, Bolt-on	1.0	Set		
	Branches: 2 - 150AT, 225AF, 3P, 230V, Bolt-on				
	1 - 100AT, 150AF, 3P, 230V, Bolt-on				
	1 - 50AT, 70AF, 3P, 230V, Bolt-on				
	10 - 30AT, 50AF, 2P, 230V, Bolt-on				
1.14	(PPS-1) Main: 350AT, 500AF, 3P, 230V, Bolt-on	1.0	Set		
	Branches: 1 - 150AT, 225AF, 3P, 230V, Bolt-on				
	2 - 125AT, 175AF, 3P, 230V, Bolt-on				
	1 - 100AT, 150AF, 3P, 230V, Bolt-on				
	2 - 70AT, 100AF, 2P, 230V, Bolt-on				
	3 - 50AT, 70AF, 2P, 230V, Bolt-on				
	5 - 30AT, 50AF, 2P, 230V, Bolt-on				

1.15	(PPS-2)	1.0	Set		
	Main: 150AT, 225AF, 3P,230V,Bolt-on				
	Branches: 1 - 70AT, 100AF, 3P, 230V, Bolt-on				
	3 - 50AT, 100AF, 3P, 230V, Bolt-on				
	1 - 70AT, 100AF, 2P, 230V, Bolt-on				
	2 - 50AT, 70AF, 2P, 230V, Bolt-on				
	5 - 30AT, 50AF, 2P, 230V, Bolt-on				
1.16	(PPS-3, PPS-4)	2.0	Set		
	Main: 125AT, 175AF, 3P, 230V,Bolt-on				
	Branches: 1 - 70AT, 100AF, 3P, 230V, Bolt-on				
	3 - 50AT, 100AF, 3P, 230V, Bolt-on				
	1 - 70AT, 100AF, 2P, 230V, Bolt-on				
	2 - 50AT, 70AF, 2P, 230V, Bolt-on				
	5 - 30AT, 50AF, 2P, 230V, Bolt-on				
1.17	(ECB)20AT,50AF,2P,230V,Bolt-on in NEMA 1R	83.0	Set		
1.18	(ECB)30AT,50AF,2P,230V,Bolt-on in NEMA 3R	5.0	Set		
Powerhouse, Low Voltage Switchgear (LVS)					
0	Main: 2500AT, 3200AF, 3P, 230V	1.0	Set		
	Branches: 1-1200AT,1600AF,3P,230V,Bolt-on				
	1 - 600AT, 800AF, 3P,230V,Bolt-on				
	1 - 500AT, 800AF, 3P,230V,Bolt-on				
	1 - 350AT, 500AF, 3P,230V,Bolt-on				
	1 - 300AT, 500AF, 3P,230V,Bolt-on				
	1 - 225AT, 350AF, 3P,230V,Bolt-on				
	1 - 70AT, 100AF, 3P, 230V, Bolt-on				
0.01	Enclosed Air Circuit Breaker 2500AT, 3200AF, 3P, 230V, in NEMA 4X	1.0	Set		
0.02	(PPH) Main: 70AT, 100AF, 3P, 230V, Bolt-on	1.0	Set		
	Branches: 1 - 40AT, 60AF, 3P, 230V, Bolt-on				
	1 - 30AT, 50AF, 3P, 230V, Bolt-on				
	8 - 30AT, 50AF, 2P, 230V, Bolt-on				
	2 - 20AT, 50AF, 2P, 230V, Bolt-on				
0.03	(PPH) Main: 150AT, 225AF, 3P, 230V, Bolt-on	1.0	Set		
	Branches: 2 - 100AT, 150AF, 3P, 230V, Bolt-on				
	3 - 30AT, 50AF, 2P, 230V, Bolt-on				
	5 - 20AT, 50AF, 2P, 230V, Bolt-on				

0.04	Automatic Transfer Switch (ATS) with Air Circuit Breaker w/ Bracket Support 2500AT, 3200AF, 3P, 230V, in NEMA Housing	1.0	Set		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
C.)(Sub-Total)					
D.)	Installation of Electrical LED Lighting Fixtures including complete necessary accessories	1.0	LS.		
1.1	2x18 Watts T8 LED Tube Light with Aluminum Reflector and Complete Accessories: Dimensions (12" x 48" x 3")	498.0	sets		
1.2	1x11 Watts LED Bulb light in pinlight housing with aluminum reflector, recessed type including complete accessories: Dimensions (8" diameter)	460.0	sets		
1.3	1x15 Watts LED Bulb light in pinlight housing with aluminum reflector, recessed type including complete accessories: Dimensions (8" diameter)	60.0	sets		
1.4	1x15 Watts LED Bulb light in pinlight housing with aluminum reflector, surface type including complete accessories: Dimensions (12" diameter)	26.0	sets		
1.5	Fire Exit Sign, green LED single face with battery backup	14.0	sets		
1.6	LED Emergency Light, Twinhead, with overcharge and over-discharge protection, battery test switch, can last up to 12 hours	8.0	sets		
1.7	Exhaust Fan, 12" inches, 230V, 60Hz, Ceiling Mounted, with thermal sensor	20.0	sets		
1.8	Exhaust Fan, 16" inches, 230V, 60Hz, Ceiling Mounted, with thermal sensor	7.0	sets		
1.9	Exhaust Ducting, Made of G.I Sheet,	1.0	lot		
1.1	Hand Dryer, 1400-1800Watts, 230V, 60Hz, 150mm sensing distance, brush motor, IPX1 protection class, Color: White	8.0	units		
1.11	LED Floodlight, 300Watts, 230V, 60Hz, Diecast Housing with Aluminum Reflector, Tempered Glass Diffuser, Weatherproof (IP65).	13.0	sets		
1.12	LED Striplight, (Cove Light) 25-30m, 230V, 60Hz, Warm White Color, includes power supply and complete accessories.	1.0	sets		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
D.)(Sub-Total)					
SUB - TOTAL (XIV.ELECTRICAL WORKS)					

XV. ELECTRONICS AND COMMUNICATION WORKS		(5% of Quantity = minimum Allowed percentage to decrease the sub-item quantities)			
A.)	Installation of Fire Detector and Alarm System,Addressable Fire Alarm Control Panel with back up batteries, can control 2-4 loops and up to 400-800 addressable detectors addressable Smoke Detectors, Heat Detectors, Pull Stations, Horn Strobes	1.0	LS.		
1.1	20mmØ x 3m PVC Pipe	235.00	Pcs.		
1.2	25mmØ x 3m PVC Pipe	20.00	Pcs.		
1.3	20mmØ PVC Adaptor	165.00	Pcs.		
1.4	25mmØ PVC Adaptor	20.00	Pcs.		
1.5	20mmØ Locknut and Bushing	186.00	Pcs.		
1.6	25mmØ Locknut and Bushing	20.00	Pcs.		
1.7	Utility Box	24.00	Pcs.		
1.8	Junction Box/Octagonal Box	60.00	Pcs.		
1.9	Flexible Metal Conduit 15mm	54.00	Pcs.		
1.10	Pullbox 6" x 6"	7.00	Pcs.		
1.11	2.0mm squared THHN	2500.00	L.m		
1.12	Addressable Smoke Detector Sensor w/ Modular Base	62.00	Pcs.		
1.13	Addressable Heat Detector Sensor w/ Modular Base	12.00	Pcs.		
1.14	Horn strobe/Vibrating Round Bell 6" dia. 24vDC	20.00	Pcs.		
1.15	Manual Call Point Station	20.00	Pcs.		
1.16	Anunciator	15.00	Pcs.		
1.17	Addressable Fire Alarm Control Panel 2-4 loops with up to 400-800 addressable detectors, addressable Module with back up batteries including of interconnecting of existing Firem Alarm Control Panel	1.00	Assy		
1.18	Other Miscellaneous items and consumables,Testing and Commissioning including conduct of orientation of maintenance & trooble shooting operation with issuance of certificate from accredited lecturer company	1.00	Lot.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
A.)(Sub-Total)					

B.)	Installation of Data Network and Telephone Rough-Ins System of Entire Building.	1.0	LS.		
1.1	PVC Pipe, 65mm x 3m, Orange	40.00	Pcs.		
1.2	PVC Pipe, 50mm x 3m, Orange	120.00	Pcs.		
1.3	PVC Pipe, 32mm x 3m, Orange	320.00	Pcs.		
1.4	PVC Pipe, 25mm x 3m, Orange	800.00	Pcs.		
1.5	PVC Pipe, 20mm x 3m, Orange	2700.00	Pcs.		
1.6	PVC Male Adapter w/ Lock Nut, 65mm	24.00	Pcs.		
1.7	PVC Male Adapter w/ Lock Nut, 50mm	24.00	Pcs.		
1.8	PVC Male Adapter w/ Lock Nut, 32mm	80.00	Pcs.		
1.9	PVC Male Adapter w/ Lock Nut, 25mm	640.00	Pcs.		
1.10	PVC Male Adapter w/ Lock Nut, 20mm	2000.00	Pcs.		
1.11	PVC Long Elbow, 65mm	24.00	Pcs.		
1.12	PVC Long Elbow, 50mm	40.00	Pcs.		
1.13	PVC Long Elbow, 32mm	480.00	Pcs.		
1.14	PVC Long Elbow, 25mm	1000.00	Pcs.		
1.15	PVC Long Elbow, 20mm	1200.00	Pcs.		
1.16	PVC End bell, 65mm	20.00	Pcs.		
1.17	PVC End bell, 50mm	20.00	Pcs.		
1.18	Wire gutter	1.00	Lot.		
1.19	PVC Utility Box, 4" x 2"	600.00	Pcs.		
1.20	Square Box, 4" x 4"	1200.00	Pcs.		
1.21	Pull Box, 8" x 8" x 6"	60.00	Pcs.		
1.22	Fittings, C-clamp, PVC Solvent and Pull Wire	1.00	Lot.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
B.)(Sub-Total)					

C.)	Installation cabling, rough-ins system, CCTV units, Server Monitor and complete necessary devices and accessories of Closed-Circuit Television (CCTV) System of entire Building	1.0	LS.		
1.1	CCTV Units, Server Monitor and complete necessary devices and accessories.	1.0	Ls.		
1.2	20mmØ x 3m PVC Pipe	214.0	Pcs.		
1.3	20mmØ Adaptor	115.0	Pcs.		
1.4	20mmØ Locknut and Bushing	130.0	Pcs.		
1.5	20mmØ Octagonal/Junction Box	25.0	Pcs.		
1.6	Pullbox 6" x 6"	4.0	Pcs.		
1.7	Gt.Pull Wire	10.0	Kgs		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
C.)(Sub-Total)					
D.)	Installation Public Address System, Rough-ins, equipments audio/sound units, microphone sets, wall & ceiling mounted speaker, power cabling, quecking machine one(1) sets including necessary accessories of entire Building	1.0	LS.		
1.1	20mmØ x 3m PVC Pipe	214.0	Pcs.		
1.2	20mmØ Adaptor	115.0	Pcs.		
1.3	20mmØ Locknut and Bushing	130.0	Pcs.		
1.4	20mmØ Octagonal/Junction Box	25.0	Pcs.		
1.5	PVC Utility Box, 4" x 2"	40.0	Pcs.		
1.6	Flexible Metal Conduit 15mm	24.0	Pcs.		
1.7	Pullbox 6" x 6"	4.0	Pcs.		
1.8	6" Ceiling mounted 30watts speaker with 330 ohm matching transformer	30.0	Pcs.		
1.9	Level Control module with plate cover	24.0	Pcs.		
1.1	Speaker Wire AWG 16	560.0	Pcs.		
1.11	300 Watts mutli zone call system up to six zones with call station input, mixing amplifier with chime tone, AM-FM tuner, CD-DVD-MP3 player, two (2) dynamic mic. And Audio Rack Cabinet	1.0	Assy.		
1.12	Enclosed Air Circuit Breaker 20AT 2P 50AF NEMA 1	1.0	Assy.		
1.13	Quecking Machine 1sets including necessary accessories and power cabling.	1.0	Assy.		

1.14	Other necessary accessories Miscellaneous items, consumables, testing and commissioning including conduct of orientation of maintenance & trouble shooting operation with issuance of certificate from accredited lecturer company	1.0	Lot.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
D.)(Sub-Total)					
SUB - TOTAL (XV.ELECTRONICS AND COMMUNICATION WORKS)					
XVI. MECHANICAL WORKS					
A.)	Installation Automatic Water Sprinkler System, Dry Stand Pipe System, Pumping system, Fire Sprinkler head , Main Springler Pipe, Branch Springkler Pipes, guage preasures, control panel system and other complete necessary devices/ Accessories	1.0	LS.		
1.1	Fire Pump	1.0	Unit		
1.2	Jockey Pump	1.0	Unit		
1.3	Booster Pump	1.0	Unit		
1.4	Floor Control Valve, 65mmØ OS&Y Gate Valve	4.0	Pcs.		
1.5	65mm Supervisory Switch and Water Flow Detector	4.0	Pcs.		
1.6	Auxiliary Drain Valve	4.0	Pcs.		
1.7	Inspection Test Valve	4.0	Sets.		
1.8	Flushing connection	4.0	Pcs.		
1.9	Fire Dept. Connection w/ Cap & Chain, 100mmØ x 65mmØ x 100mmØ	1.0	Pc.		
1.10	Fire Hose Cabinet w/ Fire Extinguisher, (HCFC 123, #10) Complete w/ Standard Accesories	4.0	Pcs.		
1.11	Fire Extinguisher, Wall mounted (HCFC 123, #10) Complete w/ Standard Accesories	25.0	Pcs.		
1.12	Pendent	277.0	Pcs.		
1.13	Sidewall	13.0	Pcs.		
1.14	Upright	8.0	Pcs.		
1.15	Sprinkler Head Cabinet w/ 8 spare heads	4.0	Sets.		
1.16	Spanner wrench	4.0	Pcs.		
1.17	Thong	4.0	Pcs.		

1.18	BI Pipe, 100mmØ, s-40	10.0	L.		
1.19	BI Pipe, 65mmØ, s-40	50.0	L.		
1.2	BI Pipe, 50mmØ, s-40	40.0	L.		
1.21	BI Pipe, 40mmØ, s-40	20.0	L.		
1.22	BI Pipe, 32mmØ, s-40	30.0	L.		
1.23	BI Pipe, 25mmØ, s-40	70.0	L.		
1.24	BI TEE, 100mmØ	8.0	Pcs.		
1.25	Reducer TEE, 100mmØx 65Ø x 100Ø	8.0	Pcs.		
1.26	BI TEE, 65mmØ	40.0	Pcs.		
1.27	BI TEE, 50mmØ	60.0	Pcs.		
1.28	BI TEE, 40mmØ	50.0	Pcs.		
1.29	BI TEE, 32mmØ	40.0	Pcs.		
1.3	BI TEE, 25mmØ	55.0	Pcs.		
1.31	BI TEE, 65mmØ x 50Ø x 65mmØ, buttweld	55.0	Pcs.		
1.32	BI TEE, 65mmØ x 25Ø x 65mmØ, buttweld	100.0	Pcs.		
1.33	BI TEE, 50mmØ x 38Ø x 50mmØ, buttweld	100.0	Pcs.		
1.34	BI TEE, 38mmØ x 32Ø x 38mmØ, buttweld	75.0	Pcs.		
1.35	BI TEE, 32mmØ x 25Ø x 32mmØ, buttweld	100.0	Pcs.		
1.36	Bell Reducer, 100mmØ x 63mmØ	4.0	Pcs.		
1.37	Bell Reducer, 65mmØ x 50mmØ	61.0	Pcs.		
1.38	Bell Reducer, 50mmØ x 40mmØ	102.0	Pcs.		
1.39	Bell Reducer, 40mmØ x 32mmØ	102.0	Pcs.		
1.4	Bell Reducer, 32mmØ x 25mmØ	102.0	Pcs.		
1.41	Bell Reducer, 25mmØ x 12mmØ	276.0	Pcs.		
1.42	BI Elbow, 25mmØ	560.0	Pcs.		
1.43	Bind Flange, 65mmØ	40.0	Pcs.		
1.44	Slip-On Flange, 100mmØ	16.0	Pcs.		
1.45	Slip-On Flange, 65mmØ	25.0	Pcs.		
1.46	Slip-On Flange, 50mmØ	16.0	Pcs.		
1.47	Threadolet, 50mmØ	28.0	Pcs.		
1.48	Victaulic Coupling, 50mmØ	10.0	Pcs.		

1.49	Victaulic Coupling, 100mmØ	6.0	Pcs.		
1.5	Check Valve, 100mmØ, (Fire Pump)	2.0	Pcs.		
1.51	Check Valve, 50mmØ, (Jockey Pump)	1.0	Pc.		
1.52	Check Valve, 50mmØ, (Booster Pump)	1.0	Pc.		
1.53	OS&Y Gate Valve, 100mmØ, (Main Line-Fire Pump Side)	1.0	Pc.		
1.54	OS&Y Gate Valve, 100mmØ, (Return Test Line)	1.0	Pc.		
1.55	Gate Valve, 50mmØ, (Jockey Pump)	1.0	Pc.		
1.56	Gate Valve, 50mmØ, (Booster Pump)	1.0	Pc.		
1.57	Complete Vertical Alarm Check Valve, Assembly 100mmØ	1.0	Set.		
1.58	Other Miscellaneous item	1.0	Lot		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
					A.)(Sub-Total)
B)	Installation Water Supply Pumping Control System, pump riser pipes, valves and fittings and other complete necessary devices and Accessories	1.0	LS.		
1.1	Stainless Steel OverHead Tank @5000 Gal.	2.0	Units		
1.2	10.0 Hp Centrifugal "End Suction" Suction Pump with atleast 2"Ø inlet and outlet and with the provision of flange both inlet and outlet.	3.0	Units		
1.3	Motor Control, Duplex Magnetic Starter w/ Circuit Breaker set	1.0	Unit		
1.4	GI Pipe, 65mmØ x 6m	1.0	L.		
1.5	GI Pipe, 50mmØ x 6m	1.0	L.		
1.6	Gate Valve, 50mmØ	1.0	Pc.		
1.7	Gate Valve, 65mmØ	1.0	Pc.		
1.8	Check Valve, 65mmØ	1.0	Pc.		
1.9	TEE, 50mmØ	1.0	Pc.		
1.1	TEE, 65mmØ	1.0	Pc.		
1.11	Elbow, 50mmØ	1.0	Pc.		
1.12	Elbow, 65mmØ	1.0	Pc.		
1.13	Foot Valve, 2-1/2in. Dia	1.0	Pc.		
1.14	Foot Valve, 2in. Dia	1.0	Pc.		
1.15	Other Miscellaneous items and consumables	1.0	Lot		

Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
B)(Sub-Total)					
C.)	Centralize Airconditioning and Ventilating System, Installation of cabling, copper tubing, ducting indoor units, cassette type ACU, and include necessary accessories, devices and connections.	157.0	Sets.		
1.1	FCU-5 (refer to the approved plans its required specs.)	8.0	set		
1.2	FCU-4 (refer to the approved plans its required specs.)	26.0	set		
1.3	FCU-3 (refer to the approved plans its required specs.)	32.0	set		
1.4	FCU-2 (refer to the approved plans its required specs.)	23.0	set		
1.5	FCU-1 (refer to the approved plans its required specs.)	4.0	set		
1.6	2.0 HP Window Type, ACU Inverter Type	4.0	set		
1.7	ACCU-A, 40HP	8.0	set		
1.8	Accessories(includes copper tubing, insulations, electrical wires & conduits, refrigerant, drain lines, imported fittings, duct works, & all other accessories.)	1.0	Lot.		
1.9	Ventilating Pipes	1.0	lot		
1.1	Ceiling Cassette Fan (EF1), 100 CFM	43.0	Units		
1.11	Wall Mounted EF1, 100CFM	1.0	Unit		
1.12	Wall Mounted EF2, 200CFM	3.0	Units		
1.13	Wall Mounted EF-g- 5295CFM	1.0	unit		
1.14	Wall Mounted EF3, 300CFM	1.0	unit		
1.15	Wall Mounted EF-sk	1.0	unit		
1.16	Wall Mounted EF-e, 2495CFM	2.0	Units		
1.17	Air Curtain 900mm x 215mm x 193mm with air volume capacity of 1200 CMH/706 CFM	2.0	Units		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
C.)(Sub-Total)					
D.)	Generator set including Panel Boards and Automatic Transfer Switch	1.0	LS.		
1.1	Installation of 750KVA Brand New Gen. Set. Diesel Engine 240VAC 3-Phase 80% PF with Control Display, angle bars, MS plates for Skid base including testing and commisioning and conduct orientation on maintenance and operation with upto 20 pax with issuance of certificate from the accredited company	1.0	Ls.		
1.2	2000L Remote Fuel Day Tank w/ Site Glass, Manhole w/ cover, drain plug stand and spill Containment, sound proof cover and w/ provision of 500L fuel and 30L of oil	1.0	Ls.		

Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
D.)(Sub-Total)					
E.)	Electric Elevator with Machine Roomless motors with complete system	2.0	Sets		
1.1	Passenger Elevator, Machine Roomless (Imported Equipment, CIF Gearless Permanent Magnet Motor, Synchronous Motor, Speed:1.5 mps, Capacity:1500Kgs, Control:VVVF, Door Type: Photocell, Car Design: Mirror Stainless Steel w/ Mirror Etched Stainless steel Finished, Landin Doors on all Floor-Etched stripe Mirror Stainless steel Finished in Middle Panel, Handrail: 2 Sides, Wiring provision for CCTV, Automatic Voltage Regulator (AVR) w/ TVSS,	2.0	Sets.		
1.2	Other Miscellaneous parts,items, accessories, scope Expenses	1.0	Ls.		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
E.)(Sub-Total)					
SUB - TOTAL (XVI.MECHANICAL WORKS)					
XVII.	ROAD NETWORKS SYSTEM AND DRAINAGE SYSTEM AROUND THE BUILDING				(5% of Quantity = minimum Allowed percentage to decrease the sub-item quantities)
A.)	Earthworks on Road Network and Drainage	1160.0	CU.M		
1.1	Cutting of Concrete Pavement 2" Thick	60.0	L.m		
1.2	Removal Actual Structure/ Obstruction, 0.23 Thick	80.0	Sq.m		
1.3	Unsuitable Soil Excavation	810.0	Cu.m		
0	Pipe Culvert and Drain Excavation, Common Soil	350.0	Cu.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
A.)(Sub-Total)					
B.)	Basecourse	420.0	CU.M		
1.1	Aggregate Base Course	210.0	Cu.m		
1.2	Aggregate Base Course (for Reblocking)	210.0	Cu.m		
Material Cost-----					
Labor Cost-----					
Equipment Cost-----					
B.)(Sub-Total)					

	C.)	Surface Course	510.0	CU.M		
	1.1	Ready Mix Concrete 4000psi @ 7 days (0.23)	510.0	Cu.m		
	Material Cost-----					
	Labor Cost-----					
	Equipment Cost-----					
	C.)(Sub-Total)					
	D.)	Drainage structures	250.0	CU.M		
	1.1	Pipe Culvert (610mmØ, ClassII, RCCP)	250.0	L.m		
	1.2	Manholes (610mmØ, Concrete)	35.0	ea		
	1.3	Metal Frames and Gratings	35.0	Pairs		
	Material Cost-----					
	Labor Cost-----					
	Equipment Cost-----					
	D.)(Sub-Total)					
	E.)	Miscellaneous Structures	650.0	CU.M		
	1.1	Cast in Place Concrete Gutter	650.0	L.m		
	1.2	Cust in Place Concrete Curb and Side walks	50.0	L.m		
	Material Cost-----					
	Labor Cost-----					
	Equipment Cost-----					
	E.)(Sub-Total)					
SUB - TOTAL (XVII.ROAD NETWORKS SYSTEM AND DRAINAGE SYSTEM AROUND THE BUILDING)						