



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF SCIENCE & TECHNOLOGY
 PHILIPPINE SCIENCE HIGH SCHOOL-SOCCSKSARGEN REGION CAMPUS
 Brgy. Paraiso, City of Koronadal

Project:

CONSTRUCTION OF THE TWO STOREY ACADEMIC BUILDING FOR SENIOR HIGH PROGRAM

Bidder:

Bid Amount:

Date

ITEM	SCOPE OF WORK	QTY	UNIT	UNIT COST	TOTAL COST
1.0	GENERAL REQUIREMENTS				
1.1	Mobilization/Demobilization	1	lot		
1.2	Bonds, Insurances & Permits	1	lot		
1.3	As built plans	1	lot		
1.4	Temporary Utilities (Electricities & Water)	1	lot		
1.5	Temporary Facilities				
1.5.1	Temporary Warehouse	1	lot		
1.5.2	Field Office/Conference Room	1	lot		
1.5.3	Temporary Fence/Site Enclosure	1	lot		
1.6	Surveying & Layouts	1	lot		
1.7	Testing of Materials				
1.7.1	Compression Testing (Cylinder, CHB, Mortar)	1	lot		
1.7.2	Cement (Physical & Chemical Properties)	1	lot		
1.7.3	Complete Test for Aggregates (Grading, Soundness, Abrasion, Specific Gravity,	1	lot		
1.7.4	Tensile Properties of Rebars & Steeldecking	1	lot		
1.7.5	Design/Trial Mix	1	lot		
1.7.6	Curing Tank & Curing Materials	1	lot		
1.8	Construction Safety/PPEs	1	lot		
	SUB-TOTAL 1.0				
2.0	LAND DEVELOPMENTS				
2.1	Entrance Porch 5" Concrete Pavement	24	sq.mt.		
	SUB-TOTAL 2.0				
3.0	EARTHWORKS AND LAND DEVELOPMENTS				
3.1	Excavation				
3.1.1	Footing Pits/tie beams	1	lot		
3.1.3	Catch Basins	3.6	Cu.M.		
3.2	Earthfill				
3.2.1	filling materials	200.00	Cu.M.		
	SUB-TOTAL 3.0				
4.0	STRUCTURAL WORKS				
4.1	Reinforced Concrete Footing (3500psi)				
4.1.1	Type 1 Portland Cement	2,015.00	bags		
4.1.2	Washed and screened Sand	96.00	Cu.M.		
4.1.3	Gravel	192.00	Cu.M.		
4.1.4	Gravel bedding	60.00	Cu.M.		
4.1.5	20mm def bars grade 40	12,900.00	kgs		
4.1.6	16mm def bars grade 40	285.00	kgs		
4.1.7	Ga 16 tie wire	380.00	kgs		
4.1.8	welding rods 6011	73.00	kgs		
4.2	Reinforced Concrete Tie Beam (3500psi)				
4.2.1	Type 1 Portland Cement	465.00	bags		
4.2.2	Washed and screened Sand	22.00	Cu.M.		
4.2.3	Gravel	44.00	Cu.M.		
4.2.4	Gravel bedding	15.00	Cu.M.		
4.2.5	16mm def bars grade 40	2,736.00	kgs		
4.2.6	10mm def bars grade 33	2,477.00	kgs		
4.2.7	Ga 16 tie wire	146.00	kgs		
4.2.8	welding rods 6011	29.00	kgs		
4.3	Reinforced Concrete Wall Footing (3000psi)				
4.3.1	Type 1 Portland Cement	71.80	bags		
4.3.2	Washed and screened Sand	3.40	Cu.M.		
4.3.3	Gravel	6.80	Cu.M.		
4.3.4	Gravel bedding	3.00	Cu.M.		
4.3.5	12mm def bars grade 33	367.63	kgs		
4.3.6	10mm def bars grade 33	121.97	kgs		
4.3.7	Ga 16 tie wire	6.00	kgs		

ITEM	SCOPE OF WORK		QTY	UNIT	UNIT COST	TOTAL COST
	4.3.8	welding rods 6011	2.00	kgs		
	4.4	Reinforced Concrete slab on fill (3000psi)				
	4.4.1	Type 1 Portland Cement	1,467.00	bags		
	4.4.2	Washed and screened Sand	81.50	Cu.M.		
	4.4.3	Gravel	163.00	Cu.M.		
	4.4.4	Gravel bedding	100.00	Cu.M.		
	4.4.5	10mm def bars grade 33	3,764.00	kgs		
	4.4.6	Ga 16 tie wire	58.00	kgs		
	4.5	Reinforced Concrete suspended slab/deck (3500psi)				
	4.5.1	Type 1 Portland Cement	1,811.00	bags		
	4.5.2	Washed and screened Sand	86.25	Cu.M.		
	4.5.3	Gravel	172.50	Cu.M.		
	4.5.4	12mm def bars grade 33	25,350.00	kgs		
	4.5.6	Ga 16 tie wire	709.00	kgs		
	4.6	Reinforced Concrete Columns (3500psi)				
	4.6.1	Type 1 Portland Cement	1,978.75	bags		
	4.6.2	Washed and screened Sand	51.40	Cu.M.		
	4.6.3	Gravel	102.80	Cu.M.		
	4.6.4	20mm def bars grade 40	22,534.31	kgs		
	4.6.5	16mm def bars grade 40	624.89	kgs		
	4.6.6	10mm def bars grade 33	8,068.37	kgs		
	4.6.7	Ga 16 tie wire	932.50	kgs		
	4.6.8	welding rods 6011	20.00	kgs		
	4.7	Reinforced Concrete Beams (3500psi)				
	4.7.1	Type 1 Portland Cement	5,397.00	bags		
	4.7.2	Washed and screened Sand	78.40	Cu.M.		
	4.7.3	Gravel	156.80	Cu.M.		
	4.7.4	25mm def bars grade 40	1,665.00	kgs		
	4.7.5	20mm def bars grade 40	30,082.86	kgs		
	4.7.6	16mm def bars grade 40	227.25	kgs		
	4.7.7	12mm def bars grade 33	463.54	kgs		
	4.7.8	10mm def bars grade 33	7,179.65	kgs		
	4.7.9	Ga 16 tie wire	1,135.00	kgs		
	4.7.10	welding rods 6011	202.00	kgs		
	4.8	Reinforced Concrete Stairs (3500psi)				
	4.8.1	Type 1 Portland Cement	125.00	bags		
	4.8.2	Washed and screened Sand	57.50	Cu.M.		
	4.8.3	Gravel	115.00	Cu.M.		
	4.8.4	16mm def bars grade 40	692.00	kgs		
	4.8.5	Ga 16 tie wire	19.00	kgs		
	4.8.6	welding rods 6011	3.00	kgs		
	4.90	Formworks and scaffoldings				
	4.9.1	2x4x12 coco lumber	800.00	pcs		
	4.9.2	2x3x12 coco lumber	2,000.00	pcs		
	4.9.3	2x2x12 coco lumber	2,000.00	pcs		
	4.9.4	3/8" ord plywood	442.00	pcs		
	4.9.5	1/4" ord plywood	135.00	pcs		
	4.9.6	assorted sixe conc nails	30.00	box		
	4.9.7	cwn 4"	20.00	box		
	4.9.8	cwn 3"	20.00	box		
	4.9.9	cwn 2-1/2"	18.00	box		
	4.9.10	cwn 2"	15.00	box		
	4.9.11	cwn 1-1/2"	12.00	box		
SUB-TOTAL 4.0						
5.0	STEEL WORKS					
	5.1	Steel Works (Trusses, Rafters, Girt & Entrance Canopy)				
	5.1.1	6mmx2-1/2"x2-1/2" angle bar	206	lght		
	5.1.2	6mmx2"x2" angle bar	126	lght		
	5.1.3	4.5mmx1-1/2"x1-1/2" angle bar	24	lght		
	5.1.4	4.5mmx1"x1" angle bar	24	lght		
	5.1.5	1.50mm thk 2"x4" Cee Purlins	364	pcs		
	5.1.6	16mm x6m plain round bars	148	length		
	5.1.7	Sag Rod (Plain Round Bar, 10mm)	45	length		
	5.1.8	Turn Buckle (1/2"x1')	232	pcs		
	5.1.9	welding rods (N90)	150	kgs		
	5.1.10	Epoxy Primer Gray	15	gals		
	5.1.11	Epoxy reducer	15	gals		
	5.2	Roofing				

ITEM	SCOPE OF WORK		QTY	UNIT	UNIT COST	TOTAL COST
	5.2.1	0.5mm ribbed type color bonded G.I. Rfg sheets	1559	L.M.		
	5.2.2	0.5mm colorbonded spanish G.I. end flashing	24	L.M.		
	5.2.3	0.5mmx0.90mx2.4m colorbonded GI gutter	24	L.M.		
	5.2.4	sealant	5	gals		
	5.2.5	Tek Screw & Rivets	25	Kgs		
	5.2.6	Touch up Paint	3	gal		
	5.3	Railings (for viewing deck, stairs and ramp)				
	5.3.1	Stainless Pipe (2"x6m, S-20)	15	Length		
	5.3.2	Square Bar (3/4")	40	Length		
	5.3.3	flat bar 1/4" x 1-1/2"x6m	30	pcs		
	5.3.4	angle bars 3/16"x1	8	pcs		
	5.3.5	Welding Rod (Stainless)	25	kgs		
	5.3.6	Epoxy Primer Gray	4	gals		
	5.3.7	Epoxy reducer	4	gals		
	5.4	Fire Escape Ladders				
	5.4.1	6mmx 2"x2" MS Angle Bar	2	lght		
	5.4.2	5mmx 1"x1" MS Angle Bar	10	lght		
	5.4.3	flat bar 1/4" x 1-1/2"x6m	28	lght		
	5.4.4	bi Pipe 2"	3	lght		
	5.4.5	Welding Rod (Stainless)	25	kgs		
	5.4.6	Epoxy Primer Gray	4	gals		
	5.4.7	Epoxy reducer	4	gals		
SUB-TOTAL 5.0						
6.0	MASONRY WORKS					
	6.1	Concrete Hollow Block Walls (6" for toilet walls)				
	6.1.1	CHB 6" (350 psi)	5,000	Pcs		
	6.1.2	Cement (40 Kgs)	320	Bags		
	6.1.3	Washed Sand	17.5	Cu.M.		
	6.1.4	DRB 10mm, Grade 40	165	Kgs		
	6.1.5	G.I. Wire (G-16)	13	Kgs		
	6.2	Concrete Hollow Block Walls (4") (Exterior and Interior Walls)				
	6.2.1	CHB 4" (350 psi)	29,670	Pcs		
	6.2.2	Cement (40 Kgs)	1937	Bags		
	6.2.3	Washed Sand	106	Cu.M.		
	6.2.4	DRB 10mm, Grade 40	979	Kgs		
	6.2.5	G.I. Wire (G-16)	79	Kgs		
	6.3	Catch Basins				
	6.3.1	CHB 4" (350 psi)	100	Pcs		
	6.3.2	Cement (40 Kgs)	8	Bags		
	6.3.3	Washed Sand	0.5	Cu.M.		
	6.3.4	DRB 10mm, Grade 40	5	Kgs		
	6.3.5	G.I. Wire (G-16)	0.5	Kgs		
	6.4	Plastering (25 mm thick)(Exterior and Interior Walls)				
	6.4.1	Cement (40 Kgs)	1,437	Bags		
	6.4.2	Washed Sand	41	Cu.M.		
SUB-TOTAL 6.0						
7.0	PAINTING WORKS					
	7.1	Wall painting (3 coats)				
	7.1.1	Wall (Latex Finish)	5,416.00	Sq.M.		
	7.2	Ceiling painting (flat wall enamel finish)	2,598.00	Sq.M.		
	7.3	Painting of wooden doors and jambs (tile gloss finish)	32.00	sets		
SUB-TOTAL 7.0						
8.0	TILEWORKS					
	8.1	Main flooring(0.60mx0.60m) Matte Porcelain tiles	2,600.00	Sq.M.		
	8.2	External porch (0.60mx0.60m) Granite Tiles non skid	70.00	Sq.M.		
	8.3	Stairs & Landing (30x30) Ceramic Tiles non skid	48.00	Sq.M.		
	8.4	Comfort rooms wall (30x60) ceramic Tiles (1.5m height)	170.00	Sq.M.		
	8.5	Comfort rooms floor (30x60) ceramic Tiles	166.00	Sq.M.		
	8.6	Brass nosing 1"x2"x6m	18.00	pcs		
SUB-TOTAL 8.0						
9.0	CEILING					
	9.1	Hardiflex Ceiling				
	9.1.1	Hardiflex 5mmx4x8	2598	Sq.M.		
	9.1.2	Metal Frames	2598	Sq.M.		
	9.1.3	Accessories	1	lot		
SUB-TOTAL 9.0						
10.0	PLUMBING WORKS					
	10.1	FRESH WATER LINES				

ITEM	SCOPE OF WORK	QTY	UNIT	UNIT COST	TOTAL COST
	10.1.1 PPR Pipes (1"), PNS 16	20	Lengths		
	10.1.2 PPR Pipes (1-1/4"), PNS 16	15	Lengths		
	10.1.3 PPR Pipes (1/2"), PNS 16	8	Lengths		
	10.1.4 PPR Pipe Fittings (Elbows, Tees, Reducers, etc)	1	Lot		
	10.1.5 Consumables (Teflon, Cement Solvent, etc.)	1	Lot		
	10.2 SANITARY & DRAINAGE LINES				
	10.2.1 PVC Pipe 4", Series 1000	40	Lengths		
	10.2.2 PVC Pipe 2", Series 1000	15	Lengths		
	10.2.3 PVC Pipe Fittings (Elbows, Wyes, Tees, Cleanouts, etc)	1	Lot		
	10.2.4 Consumables (Teflon, Cement Solvent, etc.)	1	lot		
	10.3 DRY STAND PIPE				
	10.3.1 G.I. Pipes (2 1/2", S-40)	2	Lengths		
	10.3.2 Firehouse cabinet	2	sets		
	10.3.3 Siamese Fire Hose Entrance	1	Pc		
	10.4 STORM DRAIN				
	10.4.1 PVC Pipe (4", S-1000)	30	Length		
	10.4.2 PVC Pipe Fittings (Elbows, coupling, etc)	1	Lot		
	10.5 PLUMBING ACCESSORIES				
	10.5.1 Stainless Floor Drain	16	Pcs		
	10.5.3 Tissue Holder	16	Pcs		
	10.5.4 Shower valve and Head	3	Pcs		
	10.5.5 Soap Holder	3	Pcs		
	10.5.6 Ball Valves	5	Pcs		
	10.5.8 slop sink wall faucet	4	pcs		
	10.6 PLUMBING FIXTURES				
	10.6.1 Water Closet	16	Sets		
	10.6.2 counter top Lavatory with faucet	14	Sets		
	10.6.3 Urinal	8	Sets		
	10.6.4 squat type water closet	2	set		
	10.6.5 stainless steel kitchen sink single bowl with faucet	9	set		
	10.6.6 slop sink	4	set		
	10.6.7 Accessories & Fittings	1	lot		
	10.7 OVERHEAD WATER SOURCE				
	10.7.1 water pump 2.5 hP	1	unit		
	10.7.2 Stainless steel water tank	1	unit		
	10.7.3 PPR Pipes (1-1/2"), PNS 16	5	Lengths		
	10.7.4 Accessories & Fittings	1	Lot		
	10.8 CISTERN (1.2mx2.0mx2.0m)	1	Lot		
	10.9 Testing & Commissioning of Plumbing Works	1	Lot		
		SUB-TOTAL 10.0			
11.0	ELECTRICAL & AUXILIARY WORKS				
	11.1 Lighting and Power distribution				
	11.1.1 THHN Copper Wire 10/7	12	rolls		
	11.1.2 THHN Copper Wire 12/7	40	rolls		
	11.1.3 THHN Copper Wire 14/7	50	rolls		
	11.1.4 PVC Conduit 1/2, S-40	400	Length		
	11.1.5 PVC Conduit 2-1/2", S-40	15	Length		
	11.1.6 PVC elbow 1/2, S-40	300	pcs		
	11.1.7 PVC elbow 2-1/2", S-40	6	pcs		
	11.1.8 metal Junction Box (4X4,)	450	Pcs		
	11.1.9 metal Utility Box (2x4)	65	Pcs		
	11.1.10 metal Square B0x with cover	18	Pcs		
	11.1.11 metal Pull box 4x12x12	3	Pcs		
	11.1.12 wire gutter 5x12x48	2	Pcs		
	11.1.13 Convenience outlet 2 gang	111	set		
	11.1.14 floor outlets	8	set		
	11.1.15 aircon outlet 1 gang	13	set		
	11.1.16 Water pump outlet	1	set		
	11.1.17 Emergency Light Outlets	48	set		
	11.1.18 LED exit sign outlets	4	set		
	11.1.19 Switch 1 gang	20	set		
	11.1.20 Switch 2 gang	24	set		
	11.1.21 Switch 3 gang 3 way	2	set		
	11.1.22 magnetic switch 3HP	13	sets		
	11.1.23 fitting connectors etc.	1	lot		
	11.1.24 tapes , solvent cement	1	lot		
	11.2 Electrical Fixtures				
	11.2.1 T5 Flourescent troffer Complete w/ Accessories 2-28watts	80	Sets		

ITEM	SCOPE OF WORK		QTY	UNIT	UNIT COST	TOTAL COST
	11.2.2	LED glass covered Pinlights 4" with 12 watts bulb	223	Sets		
	11.2.3	LED Strip lights	164	lm		
	11.2.4	LED illuminated exit signs	7	pcs		
	11.2.5	emergency light	48	sets		
	11.3	Breakers and Panel boxes				
	11.3.1	PB-1 Panel Box 3 phase bolt on industrial type center main 20 branches with 100Amps Main; 12-20amps; 6-30amps; 2-60amps	1	set		
	11.3.2	PB-2 Panel Box 3 phase bolt on industrial type center main 22 branches with 125Amps Main; 13-20amps; 4-30amps; 5-60amps	1	set		
	11.3.3	MDP Panel Box industrial type 3phase center main bolt-on; 250Amp main	1	set		
	11.3.4	125mm THHN wire	60	mtrs		
	11.3.5	50mm THHN wire	40	mtrs		
	11.3.6	30mm THHN wire	20	mtrs		
	11.3.7	service entrance wiring	1	lot		
	11.3.8	Entrance Cap	1	pc		
	11.3.9	Male adaptor	1	pc		
	11.3.10	HD secondary rack	1	set		
	11.3.11	U-bolt connector	3	pcs		
	11.3.12	rubber tape	3	rolls		
	11.3.13	Conduits and Fittings	1	lot		
	11.4	Testing and Commissioning	1	lot		
SUB-TOTAL 11.0						
12.0	ELECTRONICS AND COMMUNICATION					
	12.1	CCTV				
	12.1.1	DVR (16 inputs) full HD, USB, Network) or higher	1	unit		
	12.1.2	1080p indoor/outdoor Camera or higher	14	unit		
	12.1.3	4 terabyte hard disk (SATA)	2	unit		
	12.1.4	LCD Monitor 32"	2	unit		
	12.1.5	Centralized power supply 12v/30amp	1	unit		
	12.1.6	cables/wire (siamese cable)	1	lot		
	12.2	Fire Detection and Alarm System (FDAS)				
	12.2.1	manual station break glass	4	unit		
	12.2.2	FDAS Wired smoke detector	72	unit		
	12.2.3	fire alarm siren with strobe LED light	4	unit		
	12.2.4	Fire Alarm control panel 4 zones	1	set		
	12.2.5	12V/9AH battery	2	units		
	12.2.6	Cables Tray, wires, Pipings, etc	1	lot		
	12.3	Local area network (LAN)				
	12.3.1	Close Data Cabinet 7ft with PSU and Blower	1	lot		
	12.3.2	Cat 5e/6 Patch panel 48 ports	2	unit		
	12.3.3	1/0 with 2 gang and face Plate	48	sets		
	12.3.4	Cables/Wires (CAT 5E/6)	1	lot		
	12.4	Grounding System				
	12.4.1	Ground Bus Bar (1/4"x1"x12")	1	pc		
	12.4.2	Bronze Ground Rod 3 meters	2	pc		
	12.4.3	AWG no. 4	35	mtrs		
	12.4.4	Connectors, Bolts, etc	1	lot		
SUB-TOTAL 12.0						
13.0	GLASSWORKS					
	13.1	W-01 fixed-awning window with reflective glass on 1-3/4x4 tubular on pc	22	Sets		
	13.2	W-02 Fixed window with reflective glass on 1-3/4x4 tubular on pc-white	5	Sets		
	13.3	W-03 awning window with reflective glass on 1-3/4x4 tubular on pc-white	3	Sets		
	13.4	W-04 awning window with reflective glass on 1-3/4x4 tubular on pc-white	8	Sets		
	13.5	W-05 awning window with reflective glass on 1-3/4x4 tubular on pc-white	3	Sets		
	13.6	W-06 fixed-awning window with reflective glass on 1-3/4x4 tubular on pc	15	Sets		
	13.7	W-07 awning window with reflective glass on 1-3/4x4 tubular on pc-white	3	Sets		
	13.8	D-04 swing glass door using 10mm clear glass on FD Section on powder	17	Sets		
	13.9	D-07 twin leaf swing glass door using 10mm clear glass on FD Section on	1	Set		
	13.10	D-11 slide- slide glass door on powder coated aluminum 2.80mx2.10m	6	Sets		
	13.11	W-08 aluminum fixed louvers on 1-3/4"x4" open back frames powder	3	Sets		
	13.12	W-09 aluminum fixed louvers on 1-3/4"x4" open back frames powder	12	Sets		
	13.13	Clear Glass Inserts .60mx.90m for D-01	23	pcs		
	13.14	Clear Glass Inserts .50mx.90m for D-02	4	pcs		

ITEM	SCOPE OF WORK	QTY	UNIT	UNIT COST	TOTAL COST
13.15	Mirror with plyboard backing (floating) 0.80mx3.60m	4	set		
SUB-TOTAL 13.0					
14.0	WATERPROOFING				
14.1	Waterproofing of toilet floors	68	sq.mt		
14.2	Waterproofing of deck floors	42	sq.mt		
SUB-TOTAL 14.0					
15.0	TERMITE CONTROL				
15.1	Soil Poisoning	162	lm		
SUB-TOTAL 15.0					
16.0	THERMAL CONTROL				
16.1	Insulation	1601	sq.mt		
SUB-TOTAL 16.0					
17.0	ARCHITECTURAL SPECIALTIES				
17.1	Modular toilet cabinets made from laminated phenolic board on an	16	Sets		
17.2	Sashworks				
17.2.1	D-01 Hollow Core Laminated flushed Door 0.90mx2.10m with viewing glass with 2"x6" wooden Jamb	23	sets		
17.2.2	D-02 Hollow Core Laminated twin leaf flushed Door 1.60mx2.10m with viewing glass on 2"x6" wooden Jamb	4	sets		
17.2.3	D-03 Hollow Core Laminated flushed Door 0.80mx2.10m with louvers on 2"x6" wooden Jamb	2	sets		
17.2.3	D-05 Hollow Core louver Door 0.70mx2.10m on 2"x6" wooden Jamb	3	sets		
17.2.4	D-08 PVC Door with Louvers 0.70x2.0mm	3	sets		
17.2.5	D-09 steel matting door 0.90mx2.10m	1	sets		
17.2.6	D-10 steel matting door 0.60mx2.10m	8	sets		
17.2.7	D-12 Hollow Core 2 hour fire rated metal door with panic Bar	1	set		
17.3	Door Lockset				
17.3.1	Lever Type Satin Finished Door Lockset	35	sets		
17.4	D-06 metal roll up door 2mx2.10m manual pull	4.2	sm		
SUB-TOTAL 17.0					
18.0	Laboratory counters/ white boards				
18.1	Laboratory Counters and Computer Tables				
18.1.1	laboratory counters 0.60x2.4m granite tile finish with sink	9	unit		
18.1.2	laminated computer tables 0.5x2.4m	8	unit		
18.2	White Board /Projector Screen				
18.2.1	White Board 4.0mx1.20m	10	sets		
18.2.2	White Board 1.80Mx1.20m	6	sets		
SUB-TOTAL 18.0					
19.0	SIGNS AND SIGNAGES				
19.1	Outdoor Signage ACP	1	lot		
SUB-TOTAL 19.0					
20.0	HVAC				
20.1	Floor Mounted Split Type Aircon 3TR Inverter	7	Sets		
20.2	wall mounted split type aircon 2.5HP	6	Sets		
20.3	Condenser steel Hanger racks	13	Sets		
20.4	Ducted Exhaust Fans	3	Sets		
SUB-TOTAL 20.0					
21.0	MECHANICAL WORKS				
21.1	FIRE SPRINKLER SYSTEM				
21.1.1	100mm x 6m BI pipe ASTM S-40	2	lght		
21.1.2	75mm x 6m BI pipe ASTM S-41	15	lght		
21.1.4	40mm x 6m BI pipe ASTM S-40	18	lght		
21.1.5	32mm x 6m BI pipe ASTM S-40	25	lght		
21.1.6	25mm x 6m BI pipe ASTM S-40	60	lght		
21.1.7	75mmx63mm BI coupling Reducer welded	6	pcs		
21.1.8	63mmx50mm BI coupling Reducer welded	10	pcs		
21.1.9	50mmx40mm BI coupling Reducer welded	10	pcs		
21.1.10	40mmx32mm BI coupling Reducer welded	10	pcs		
21.1.11	32mmx25mm BI coupling Reducer welded	16	pcs		
21.1.12	25mmx15mm BI coupling Reducer welded	250	pcs		
21.1.13	40mm BI elbow 90* S-40 threaded	16	pcs		
21.1.14	25mm BI elbow 90* S-40 welded	280	pcs		
21.1.15	25mm BI Tee s-40 threaded	140	pcs		
21.1.16	15mm BI plug threaded S--40	200	pcs		
21.1.17	32mm BI flange welded s-40	7	pcs		

ITEM	SCOPE OF WORK		QTY	UNIT	UNIT COST	TOTAL COST
	21.1.18	25mm BI flange welded s-40	7	pcs		
	21.1.19	Buttefly valve 100mm with supervisory switch UL	6	pcs		
	21.1.20	25mm ball valve	6	pcs		
	21.1.21	25 mm inspectors test valve with sight glass	6	pcs		
	21.1.22	air relief valve	6	pcs		
	21.1.23	flow switch	6	pcs		
	21.1.24	sprinkler head pendant type with mounting plate	282	pcs		
	21.1.25	angle bar 3/16x2"x20'	30	lgth		
	21.1.26	con thread round bar 3/8"x10 ft	55	lgth		
	21.1.27	swivel loop hanger 4"	12	pcs		
	21.1.28	swivel loop hanger 3"	12	pcs		
	21.1.29	swivel loop hanger 2-1/2"	12	pcs		
	21.1.30	swivel loop hange 2"	12	pcs		
	21.1.31	swivel loop hanger 1-1/2"	12	pcs		
	21.1.32	swivel loop hanger 1-1/4"	12	pcs		
	21.1.33	swivel loop hanger 1"	200	pcs		
	21.1.34	u bolt with nut and washer 3/8"x4	18	pcs		
	21.1.35	Ubolt with nut and washer 3/8"x3	18	pcs		
	21.1.36	ubolt with nut and washer3/8x2-1/2	22	pcs		
	21.1.37	ubolt with nut and washer 5/16x2	18	pcs		
	21.1.38	Expansion bolt 3/8"	37	pcs		
	21.1.39	Nut and washer 3/8"	680	pcs		
	21.1.40	welding rods 6011	30	kgs		
	21.1.41	welding rods 6013	30	kgs		
	21.1.42	cutting disc 4"	30	pcs		
	21.1.43	grinding disc 4"	30	pcs		
	21.1.44	QDE paint	12	gal		
	21.1.45	Paint thineer	12	gal		
	21.1.46	metal primer red oxide	12	gal		
	21.1.47	paint brush	15	pcs		
	21.1.48	gasket maker	9	tube		
	21.1.49	teflon tape	510	pcs		
	21.1.50	steel brush	7	pcs		
	21.1.51	waste rugs	7	kgs		
	21.1.52	Integration to existing pump	1	lot		
	21.1.53	construction of FPS storage cistern 1.50mx3.00mx	1	lot		
	21.1.54	20 Hp fire pump, 2Hp jockey pump with valve	1	lot		
	21.1.55	commissioning and testing	1	lot		
SUB-TOTAL 21.0						
GRAND TOTAL						