

**BILL OF QUANTITIES
FOR
CONSTRUCTION
OF
NASTECH PARK AT
SUKKUR IBA UNIVERSITY**

**CIVIL, ELECTRICAL, PLUMBING
AND
FIRE FIGHTING WORKS**

Lead Consultant

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SUKKUR IBA UNIVERSITY
CONSTRUCTION OF NASTech PARK
Covered Area 56,205 Sft
SUMMARY OF COST (CSR 2024)

S.#	Description	Amount	
	INTERNAL WORKS		
A	Civil Work Schedule Items		
1	Schedule Civil Works except steel	Rs.	
2	Schedule Civil Works Steel	Rs.	
	Total - A	Rs.	
B	Civil Work Schedule Items		
1	Schedule Civil Works	Rs.	
2	Non - Schedule Civil Works	Rs.	
	Total - B	Rs.	
C	Electrical Works		
2	Building Electrical Works	Rs.	
	Total - C	Rs.	
D	Plumbing Works		
1	Schedule Plumbing Works Internal	Rs.	
2	Plumbing Works Non Schedule Item Internal	Rs.	
	Total - D	Rs.	
E	Fire - Fighting		
1	Non Schedule Items	Rs.	
	Total: - E	Rs.	
	EXTERNAL WORKS		
F	O.H.W.T WORKS		
1	Structure works	Rs.	
	Total: - F	Rs.	
	G.Total (A+B+C+D+E+F)	Rs.	

Client

Contractor

Bill of Quantities

Client:	Sukkur IBA University		Revision	
Project:	Construction of NAS Technology Park	Prepd. By	Date :	
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By	Date:	

CIVIL WORKS (Schedule works)

S.No	DESCRIPTION	UNIT	QTY.	RATE(RS)	AMOUNT(RS)
Part-A	CIVIL WORKS				
	<u>SECTION A</u>				
Item-01	<u>EXCAVATION FOR FOUNDATION</u>				
	Excavation in foundation of Building Bridges and other structure including dagbelling dressing, refilling around structure with excavated earth watering and ramming lead upto 5 ft or more as shown in drawings				
	a) In Ordinary soil	P.Cft	36,259.18	11.88	430,759.06
	Chapter No. 01, Item 18(b) Page-17				
	b) In hard soil or soft murum	P.Cft		11.88	
	Chapter No. 01, Item 18(c) Page-17				
Item-02	<u>EARTH FILLING</u>				
	Filling, watering and ramming earth in floor with surplus earth from foundation lead upto one chain and lift upto 5 ft.				
	a) Under Floor	P.Cft	101,621.83	6.50	660,541.90
	Chapter No. 01, Item 21 Page-17				
Item-03	<u>P.C.C (1:4:8)</u>				
	Cement concrete plain (1:4:8) using sulphate resistant cement type (v) including placing, compacting, finishing, curing, complete, (Including screening and washing of stone aggregate without shuttering).				
	i) Footing & Floor	P.Cft	15,433.95	348.83	5,383,824.78
	Chapter No. 04, Item 5(i) Page-25				
Item-04	<u>P.C.C (1:3:6)</u>				
	Cement concrete plain (1:3:6) using sulphate resistant cement type (v) including placing, compacting, finishing, curing complete, (including screening and washing of stone aggregate without shuttering).				
	i) Floor	P.Cft	8,975.03	388.67	3,488,324.91
	Chapter No. 04, Item 5(h) Page-25				
Item-05	<u>REINFORCED CEMENT CONCRETE (S.R Cement)</u>				
	Reinforced cement concrete (1:2:4) using sulphate resistant cement type (v) or more rich to provide 6"x12" cylinder strength of 3000 psi at 28 days age (equivalent cube strength = 3750 psi) including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms, moulds, lifting, shuttering, curing, rendering and finishing exposed surface including screening and washing of stone aggregate.				
	a) Raft / Foundation	P.Cft	63,361.99	717.59	45,467,929.55
	b) Column 4000 Psi	P.Cft	1,382.03	717.59	991,730.68
	c) R.C.C Retaining Wall	P.Cft	2,889.89	717.59	2,073,759.04
	d) Lift wall	P.Cft	1,955.00	717.59	1,402,888.45
	e) Plinth Beam	P.Cft	4,304.80	717.59	3,089,083.67
	f) Ramp	P.Cft	562.98	717.59	403,985.95
	Chapter No. 04, Item 6(a)(I) Page-25				

S.No	DESCRIPTION	UNIT	QTY.	RATE(RS)	AMOUNT(RS)
Item-06	SAND FILLING Sand filling under floor footpath/plinth protection and where required including laying, levelling, dressing compacting and complete a) Under Footing & Under Floor Chapter No. 05, Item 29, Page-34	P.Cft	101,227.55	57.52	5,822,608.76
Item-07	POLYTHENE SHEET Providing and laying single per layer of polythene sheet 0.13 mm thick for water proffing as per specification and instructions of Engineer Incharge. (Over Walls) a) Over walls & Under floor Chapter No. 07, Item 38 Page-43	P.Sft	52,334.00	24.01	1,256,539.34
Item-08	DAMP PROOF COURSE (2" thick) (S.R Cement) Damp proof course with cement sand & shingle/ crush concrete (1:2:4) using sulphate resistant cement type (v) including 2 coats of asphaltic mixture. (over walls) Chapter No. 04, Item 28 (b), Page 28	P.Sft	450.00	126.98	57,138.75
Item-09	WATERPROOFING ON SUBSTRUCTURE Providing and applying 4mm thick torch on water proofing at footing (substructure) as per drawing or approved equivalent substructure/ all four sides of footing/top of footings, Situ & Plinth beams, footing etc. HIGHWAY Chapter No. 01, Item 13. Page-213	%sft	34,044.75	65.00	22,129.09
Item-10	REINFORCED CEMENT CONCRETE (S.R Cement) Reinforced cement concrete (1:1½:3) using sulphate resistant cement type(v) or more rich to provide 6"x12" cylinder strength of 4000 psi at 28 days age (equivalent cube strength=4500 psi) including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms, moulds, lifting, shuttering, curing, rendering and finishing exposed surface including screening and washing of stone aggregate. (Ratio (1:1-1/2:3) a) Columns 4000 Psi Ground Floor First Floor Second Floor Roof Chapter No. 4, Item 6(a)(II)+ 6(d), Page-25	P.Cft P.Cft P.Cft P.Cft	3,392.25 3,392.25 3,392.25 139.78	717.59 767.50 817.41 967.14	2,434,244.68 2,603,551.88 2,772,859.07 135,186.83

S.No	DESCRIPTION	UNIT	QTY.	RATE(RS)	AMOUNT(RS)
Item-11	<u>REINFORCED CEMENT CONCRETE</u>				
	Reinforced cement concrete (1:2:4) or more rich to provide 6"x12" cylinder strength of 3000 psi at 28 days age (equivalent cube strength = 3750 psi) including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms, moulds, lifting, shuttering, curing, rendering and finishing exposed surface including screening and washing of stone aggregate.				
	a) Beam				
	Ground Floor	P.Cft	4,968.96	787.71	3,914,100.22
	First Floor	P.Cft	4,965.12	837.62	4,158,885.38
	Second Floor	P.Cft	4,967.78	887.53	4,409,053.51
	Roof	P.Cft	322.73	987.35	318,644.84
	b) Slab (As per Structural drawings)				
	Ground Floor	P.Cft	10,009.00	787.71	7,884,189.39
	First Floor	P.Cft	10,009.00	837.62	8,383,738.58
	Second Floor	P.Cft	10,009.00	887.53	8,883,287.77
	Roof	P.Cft	499.83	987.35	493,503.45
	c) Lift wall				
	Ground Floor	P.Cft	1,706.00	787.71	1,343,833.26
	First Floor	P.Cft	1,176.53	837.62	985,480.87
	Second Floor	P.Cft	1,176.53	887.53	1,044,201.23
	Roof	P.Cft	626.72	987.35	618,790.76
	d) R.C.C Parapet Wall				
	First Floor	P.Cft	338.23	837.62	283,309.92
	Second Floor	P.Cft	200.03	887.53	177,528.89
	Roof	P.Cft	996.62	987.35	984,013.37
	e) Stair				
	Ground Floor	P.Cft	478.33	787.71	376,783.36
First Floor	P.Cft	406.14	837.62	340,190.99	
Second Floor	P.Cft	406.14	887.53	360,461.43	
Chapter No. 4, Item 6(a)(II)+ 6(d), Page-25					
	(A)-TOTAL COST WITHOUT STEEL				123,457,083.60
	ADD PERMIUM _____% Above or Below				
	A- Total				
Part-A	SECTION B				
Item-12	<u>STEEL REINFORCEMENT</u>				
	a)Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints fastenings, including cost of binding wire also includes removal of rust from bars.				
	a) Deformed Steel bars Grade- 60 from Amreli or Razzak				
		P.Cwt	8,063.24	18,934.02	152,669,610.57
Chapter No. 04, Item 8(a) & (B) page-26					
	(B)-TOTAL COST FOR STEEL				152,669,610.57
	ADD PERMIUM _____% Above or Below				
	B- Total				

Bill of Quantities					
Client:	Sukkur IBA University			Revision	
Project:	Construction of NAS Technology Park	Prepd. By		Date :	
Consult:	Naqvi & Siddiquie, Islamabad	Checked. By		Date:	
CIVIL WORK (Schedule works)					
S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT (Rs.)
Part-B	CIVIL WORKS				
	<u>Schedule Civil Works except steel</u>				
	<u>SECTION A- I</u>				
Item-1	Brick Masonry works in super structure (above plinth level/Plinth protection) Chapter No.5, Item No. 5 (I) (C), Page No. 30				
	Providing and laying approved first class burnt brick masonry in super structure walls at any height and any floor, laid and jointed with cement and approved source sand machine mixed mortar, masonry to be laid in course true to line, level and plumbing, protected and properly cured including scaffolding and providing deep joints to receive rendering. All work to be completed as per drawings and specifications, including P/F specified anchorage with concrete members and directed by the Engineer.				
	Ground Floor				
	4-½" thick	P. Cft.	2,485.67	397.85	988,924.06
	9" thick	P. Cft.	9,737.86	397.85	3,874,205.86
	First Floor				
	4-½" thick	P. Cft.	1,587.80	415.08	659,062.73
	9" thick	P. Cft.	7,702.28	415.08	3,197,060.31
	Second Floor				
	4-½" thick	P. Cft.	1,354.54	436.96	591,880.75
	9" thick	P. Cft.	7,293.98	436.96	3,187,179.41
	4-½" thick	P. Cft.		494.09	-
	9" thick	P. Cft.	-	494.09	-
		P. Cft.	2,614.78	494.09	1,291,937.27
Item-2	Internal Plaster				
	Applying floating coat of Cement 1/32" thick.				
	Chapter-9, Item No. 14 (ii), Page-52				
	Ground Floor	P.Sft	26,454.00	22.63	598,653.91
	First Floor	P.Sft	25,716.86	25.57	657,580.17
	Second Floor	P.Sft	24,410.06	28.51	695,930.88
	Roof	P.Sft	1,290.00	34.39	44,363.10
	Parapet Wall	P.Sft	4,202.25	34.39	144,515.38
	Providing and laying exterior plaster (in required thickness as per specifications)	sft	32,036.25	25.57	819,166.91
	Ceilling Plaster	sft	12,439.94	34.39	427,809.45
Item-3	Cement plaster 1:4 upto 12' height.				
	(a) 3/8" thick	P.Sft	126,549.36	37.78	4,781,034.73
	(Chapter No.9, Item No. 11 (a), Page No. 52)				
Item-4	Cement plaster 1:4 upto 12' height.				
	(b) 1/2" thick.	P.Sft	126,549.36	39.83	5,040,460.91
	(Chapter No.9, Item No. 11 (b), Page No. 52)				

S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT (Rs.)
Part-B	SECTION B - II				
	FLOORING AND SPECIAL FINISHES				
Item-13	Porcelain Floor Tiles				
	Providing & Laying Full Body Porcelain Tile in Flooring or Facing of Approved Design Set in Gry Cement Motor 1:2 or of 3/4" Thickinss I/C Washing & Joints White Cement Slurry Using Colour Pigment for matching complete as per Specification. (Chapter no.8 , Page no.46)				
	a) 600mm x 600mm (Item No. 28 (vii & ix) & 18 Room / Hall / Passage				
	Ground Floor	sft.	14,300.00	439.57	6,285,851.00
	First Floor	sft.	16,500.00	439.57	7,252,905.00
	Second Floor	sft.	15,100.00	448.76	6,776,276.00
	Roof	sft.	520.00	467.14	242,912.80
	Skirting (As per Drawings)				
	Ground Floor	sft.	1,800.00	439.57	791,226.00
	First Floor	sft.	1,450.00	439.57	637,376.50
	Second Floor	sft.	2,711.40	448.76	1,216,767.86
	Roof	sft.	189.36	467.14	88,457.63
	b) 450mm x 450mm (Item No. 28 (vii & viii) & 18 Toilet				
	Ground Floor				
	Floor porcelain 450mm x 450mm	sft.	788.00	373.84	294,585.92
	Wall ceramic 450mm x 450mm	sft.	2,300.00	373.84	859,832.00
	First Floor				
	Floor porcelain 450mm x 450mm	sft.	782.00	383.03	299,529.46
	Wall ceramic 450mm x 450mm	sft.	2,050.00	373.84	766,372.00
	Second Floor				
	Floor porcelain 450mm x 450mm	sft.	782.00	392.22	306,716.04
	Wall ceramic 450mm x 450mm	sft.	2,050.00	373.84	766,372.00
Item-14	Paver Blocks				
	Providing & fixing cement paving blocks flooring having size of 197x97x80(mm) of city/quddra/cobble shape with natural colours, having strength b/w 5000 psi to 8500 psi i /c filling the joints with hill sand over a bed of 2" thick hill sand or stone dust and laying and compacting in specified manner /pattern and design etc complete. (PSI 5000 to 8500e/ Tameer Works or Equivalent manufacturer)	sft.	13,600.00	227.51	3,094,136.00
	(Chapter no.8 , Item No. 69,Page no.50)				
Item-15	GRANOLITHIC FLOORING				
	Cement concrete tiles laid flat in 1:2 cement mortar over 3/4" thick bed of cement mortar1:2.				
	a) 11 15/16" X 11 15/16" X 1"	sft.	295.00	142.53	42,046.35
	(Chapter no.8 , Item No. 14 (a) Page no.44)				
Item-16	Marble Tiles				
	Laying white marble flooring fine dressed on the surface without winding set in lime mortar 1:2 including rubbing and polishing				
	Chapter No.8, Page 46, Item No.28(i)				
	a) Main Stairs Near Lift				
	All Floor				
	Tread 5'-0" ft	P.sft.	342.00	1,058.78	362,102.76
	Riser 5'-0" ft	P.sft.	187.00	1,058.78	197,991.86
	Landing 5'-0" ft	P.sft.	181.00	1,058.78	191,639.18
	Stair Skirting	P.sft.	140.00	1,058.78	148,229.20
	b) Emergency Stair				
	All Floor				
	Tread 5'-0" ft	P.sft.	285.00	1,058.78	301,752.30
	Riser 5'-0" ft	P.sft.	150.00	1,058.78	158,817.00
	Landing 5'-0" ft	P.sft.	32.00	1,058.78	33,880.96
	Stair Skirting	P.sft.	114.00	1,058.78	120,700.92
	c) Main Entrance Stair				
	All Floor				
	Tread 5'-0" ft	P.sft.	362.00	1,058.78	383,278.36
	Riser 5'-0" ft	P.sft.	181.00	1,058.78	191,639.18
	Stair Skirting	P.sft.	18.00	1,058.78	19,058.04

S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT (Rs.)
Item-17	d) Machine Room Stairs				
	All Floor				
	Tread 5'-0" ft	P.sft.	18.00	1,058.78	19,058.04
	Riser 5'-0" ft	P.sft.	12.00	1,058.78	12,705.36
	Stair Skirting	P.sft.	13.00	1,058.78	13,764.14
Item-17	Precast Sill				
	b) Precast reinforced cement in columns, beams, lintels stairs cases, shelves etc.	P. Sft	350.00	696.28	243,698.00
	Chapter No.4, Page 25, Item No. 6 (b)(i)				
	(B)-TOTAL COST WITHOUT STEEL				32,119,677.86
	ADD PERMIUM _____% Above or Below				
	B- TOTAL FOR SCHEDULE ITEMS				
Part-B Item-18	SECTION -B - III				
Item-19	WOOD WORK				
	Porviding and fixing in Position doors, windows and ventilators of first class deodar wood frames and 1-3/4" thick commercial ply veneer shutters of first class deodar skeleton (Solid Door) and commercial ply wood (3 ply) on both sides includinghold fasts, hinges, iron tower bolts, handles and cleats with cord and one Mortice lock and hooks.				
	Chapter No.10, Page-57, Item No.9				
	Ground Floor	P.sft.	626.00	2,998.14	1,876,835.64
	First Floor	P.sft.	190.00	2,998.14	569,646.60
	Second Floor	P.sft.	91.00	2,998.14	272,830.74
	All Floor Toilet Doors	P.sft.	810.00	2,998.14	2,428,493.40
	MILD STEEL DOORS				
	Providing and Fixing iron Collapsable Gate with Channel framinig of section 3/4"x 5/16" at 4" of section (Roof Door)				
	Chapter No.17, Page-77, Item No.32	Sft.	21.00	1,956.05	41,077.05
	C- TOTAL FOR SCHEDULE ITEMS				5,188,883.43
	ADD PERMIUM _____% Above or Below				
	C- TOTAL FOR SCHEDULE ITEMS				
	GRAND TOTAL FOR SCHEDULE ITEMS (A+B+C)				

Bill of Quantities					
Client:	Sukkur IBA University			Revision Date :	
Project:	Construction of NAS Technology Park	Prepd. By			
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By		Date:	
CIVIL WORKS (Non - Schedule works)					
S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT (Rs.)
Part-B	Civil Works (Non - Schedule Works)				
Item-1	CURTAIN WALL FOR STRUCTURAL GLAZING Providing, placing 2 fixing in position Champaign/brown colour anodized deluxe quality aluminium Four Way curtain wall structural glazing having mullian 146x65x2.5mm and transom 95x65x2.5mm included 4mm thick G.I. sleeve 50x100mm in side the mullian for strength, panel size as shown on drawings fixed to the RCC surface by using galvanized steel brackets & Hilti Bolts of approved sizes. Providing and fixing specified gasket/weathered strips around the fix portion in the frame, including providing and applying acrylic polymer/silicon sealant of approved type as per specification against masonry together with edge aluminium trimming complete as per directed by the Engineer Ground Floor First Floor Second Floor Roof	P. Sft P. Sft P. Sft P. Sft	1,349.17 3,381.13 2,818.38 36.00		
Item-2	Double glass glazing P/F double glass glazing with outside 6mm thick solar reflective high performance Guardian / Plinkgton / AGC tempered glass of approved colour keeping reflective side towards cavity and 6mm thick tempered clear float glass in side and having cavity filled with organ gas having U-value = 1.40 w/m2 k and shedding coefficient (SC)=0.44 with cavity using aluminum strip 12mm and Hermetically sealed caulking with structural sealant. Ground Floor First Floor Second Floor Third Floor	P. Sft P. Sft P. Sft P. Sft	1,349.17 3,381.13 2,818.38 36.00		
Item-3	ALUMINUM GLAZING Supply and fixing of aluminum joinery of 2" x 4" section anodized PAK Cable minimum wall thickness not less than 2.0 mm with netted shutter and 6 mm glazing(frosted) of approved brand and quality as per drawings and instruction of the Architect complete in all respects. Roof / Mumty	P. Sft	96.25		
Item-4	FACING BRICK MASONRY 9" Thick Providing and laying facing brick masonry from Lahore 9"x4½"x3" thick with grooved joints, Ratio 1:2 bed mortars & Pigment color(As per instruction of Engineer In charge or as shown on drawings including all related works i.e. Steel hooks imbedded in ordinary masonry wall fairface surface area is to measured and paid External/ Internal Ground Floor First Floor 2nd Floor	P. Sft P. Sft P. Sft	4026 3171 3275		

S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT (Rs.)
Item-5	Glass Work Providing and fixing of 12mm thick imported tempered glass of approved shade with patch fitting (Dorma) and hardware as per instruction of architect /Engineer In charge complete in all respect.				
	Ground Floor	P. Sft	674.87		
	First Floor	P. Sft	7,659.56		
	Second Floor	P. Sft	6,057.99		
Item-6	Granite Counter Top 3/4" thick Granite tile (Chaanki Pink) 2' wide as per drawing or Instructions of Engineer In charge				
	a) Main Entrance and Entrance Steps Podium	P. Sft	1,061.88		
	b) Kitchen Counter	P. Sft	238.50		
	c) Toilets	P. Sft	229.75		
Item-7	False Ceiling CMC lay-in ceiling comprising of Aluminum perforated tiles size 600x600x0.8 mm lay-in panels chromate and stove enameled in white powder coated finish and " thick standard canceled gypsum board borders ceiling as per your drawings. The tiles shall be perforated with 1.8 mm holes. The units shall be provided with factory applied high sound absorption non-combustible fire-resistant acoustic membrane in black color complete with exposed grid extruded aluminum suspension system in black anodized finish consisting of main tees, cross tees perimeter trim and adjustable galvanized steel hanger and galvanized steel suspension system for gypsum board ceiling including painting and provsion of light fixtures A/C supply unit etc. Providing and fixing 1200mm x300mm aluminum strip ceiling by CMC including all suspension system as per drawing and approved by Architect/ Engineer	P. Sft	33,780.55		
		P. Sft	2,479.34		
Item-8	WATER PROOF PLASTERING Providing and laying 3/4" thick (1:3) cement sand plaster mixed with pudlo@ 3% by weight and 2 coats of cement slurry over plaster. Keeping the walls and bottom slab properly wet, including all bends, corners, recesses and also including hacking the concrete surfaces, all plaster to be finished smooth with steel float in true level, line and properly cured, complete as per drawings, specifications and as directed by the Engineer. OH Water Tank	P. Sft	893.30		
Item-9	Wall Insulation Providing and laying 1½ inches thick fire rated insulation board (Jambolon)complete in all respect as per the instruction of the Architect/In charge Engineer				
	Ground Floor	P. Sft	4,202.45		
	First Floor	P. Sft	4,568.55		
	Second Floor	P. Sft	2,853.83		
Item-10	Pre Cast Copping Providing and laying of precast fair face CC Copping (21"X12"X4") ratio 1:2:4 including gola with complete all respects as directed by Engineer	P. Rft	450.00		

S.No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT (Rs.)
Item- 11	Roof Screeding Proper cleaning of surface completely, then Screeding 3" thick 1:3:6 for proper maintain slope, laying of water proofing membrane sheet 4mm thick/Bituline hi-grip - onduline group) than 2" thick CC topping 1:2:4 & dividing in panels 1/2" gap and filling of cavity with bitumen 10/20 grade as per instruction of Site Incharge	P. Sft	17,944.79		
Item- 12	TERMITE CONTROL Providing and carrying out termite proofing to all horizontal and vertical excavated surfaces to reduced level of excavation, layers of fill and under all floors, external area, courtyard and tree pits at every 6" layers, using " Agenda 25EC by Buyer Company" or approved equivalent and shall be applied as per manufacturer's recommendations and as per specifications. Complete in all respects as per drawings, specifications and entire	Job No.	1.00		
Item-13	Plinth Protection Providing and laying of 4" thick sand filling, 4" thick 1:4:8 and 3" thick 1:2:4 CC topping divided into panels with marble strips and dwarf wall of brick masonry 9" thick as per drawings /Instructions of Architect/ In charge Engineer	Per sft.	4,675.90		
Item-14	Stone Metal (Water Bound) Preparing base course i/c supplying and spreading stone metal of approved quality properly graded to maximum size of 1-1/2" inrequired thickness to Proper camber and grade including supplying and spreading 15Cft :screenings and non plastic quarry fines, filling depressions with stone metal after initial rolling including watering and compaction the same so as to achieve 100% density as per modified AASHO specifications. (Rate include sproviding and using templates, camber plates, screens, forms as directed. (Rate includes all cost of materials T&P and carriage upto 3 chins)	P.Cft	1,580.88		
Item-15	Stone Soling Under Footing thickness as per drawing/Instrctions of Engineer in Charge Providing and fixing G.I frames/Chowkhats of size 11" x 2" or 7" x 3" for doors using 16 SWG G.I sheet I/c welded hinges and fixing at site wuth necessary hold fasts, filling with cement sand slurry of ratio 1:4 and repairing the jambs. The cost alos i/c all all carriage, tools and plants used in making & fixing	P.Cft	4,113.50		
Item 16		P.Rft	1,050.00		
Total Rs:					

SUMMARY OF COST

S.#	Description	Amount (Rs.)	
Part - C	Electrical Works		
1	Schedule Electrical Works SI	Rs.	
2	Non Schedule Electrical Works	Rs.	
	Total	Rs.	

Client

Contractor

Bill of Quantities					
Client:	Sukkur IBA University	Job No.	Revision:		
Project:	Construction of NAS Technology Park	Prepd. By	Date:		
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By			
ELECTRICAL WORKS (Schedule works)					
S. No	DESCRIPTION	UNIT	QTY	RATE(Rs)	AMOUNT(Rs)
Part C-I	Electrical Works				
Note:~	The Contractor should note that materials and equipment as specified and as per list of Approved Manufacture/Make as Annexure-A1 (attached) shall be used.				
1	Providing & Laying of wiring for light or fan point with 2-3/0.029 PVC insulated cable in 20mm dia (3/4") PVC conduit recessed in wall or column as required. (ESI # N 102 Page #236).	P. Point	746.00	6,573.50	4,903,831
2	Providing & Laying of wiring for plug point (FROM NEAREST POINT) with 2-3/0.029 S/C, PVC insulated cable in 20mm dia (3/4") PVC conduit recessed in the wall or column as required. (ESI # N 104 Page # 236)	P. Point	545.00	6,573.50	3,582,558
3	Providing & Laying (Mains or Sub-Mains) PVC Insulated with size 3-7/0.029 wire copper conductor in (3/4" dia) PVC Conduit recessed in wall or column as required. (Lighting Circuit), (ESI#D 24 P#230)	Rft	3,280.00	684.64	2,245,619
4	Providing & Laying (Mains or Sub-Mains) PVC Insulated with size 3-7/0.036 wire copper conductor in (3/4" dia) PVC Conduit recessed in wall or column as required. (Power A/C Circuit), (ESI # D 25 P # 230)	Rft	2,280.00	934.36	2,130,341
6	Providing and fixing of flush type, 3 pin, 10/15 Amps, S.P, plug socket, switch. (ESI # 190 Page # 244).	P. Point	14.00	677.36	9,483
7	Providing and fixing of one way SP 10/15 amp switch surface type. (ESI # 188 Page # 244).				
	i) 1 gang switch plate	No.	75.00	468.19	35,114
	ii) 2 gang switch plate	No.	80.00	936.38	74,910
	iii) 3 gang switch plate	No.	150.00	1,404.57	210,686
	iii) 4 gang switch plate	No.	140.00	1,872.76	262,186
	iv) 5 gang switch plate	No.	80.00	2,340.95	187,276
	v) 6 gang switch plate	No.	70.00	2,809.14	196,640
	Supply, installation, testing and commissioning of single core, stranded copper conductor, PVC insulated, 450/750 volt grade in pre-laid conduits/trenches or on cable trays as per route shown on drawings or as directed by Engineer-in-Charge including cost of all necessary materials, termination, cable lugs properly crimped at both ends and of the following sizes and of the following sizes:-				
	a) Single Core, PVC insulated Copper Cable				
	i) 1 core 4mm sq + 1 x 2.5mm sq as ECC (ESI # 25 Page # 230).+(ESI # 24 Page # 230).	Rft	350	1,619	566,650.00
	ii) 1 core 6mm sq + 1 x 4mm sq as ECC (ESI # 26 Page # 230).+(ESI # 25 Page # 230).	Rft	400	2,305	922,132.00
	iii) 1 core 10mm sq + 1 x 6mm sq as ECC (ESI # 27 Page # 230).+(ESI # 26 Page # 230).	Rft	150	3,347	502,104.00
	iv) 1 core 16mm sq + 1 x 10mm sq as ECC (ESI # 28 Page # 230).+(ESI # 27 Page # 230).	Rft	375	4,316	1,618,350.00
	Total (Rs.)				

Bill of Quantities					
Client:	Sukkur IBA University	Job No.		Rev Date :	
Project:	Construction of NAS Technology park	Prepd. By			
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By		Date:	
Electrical Works (Non - Schedule works)					
S.No.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Part C - II	Electrical Works (Non - Schedule Works)				
Item-1	The Contractor should note that materials and equipment as specified and as per list of Approved Manufacture/Make shall be used.				
1	Supply, installation, testing of PVC conduit as specified concealed in RCC slabs, walls, floors columns or fixed to slab, wall above false ceiling as per site conditions including cost of all conduit accessories, steel pull boxes, pull wire, junction boxes and complete in all respects and of the following sizes:				
	a) 1 " dia	Rft	1,500		
	b) 1½ " dia	Rft	600		
	c) 2" dia	Rft	150		
	Providing and fixing two-way gang switch plate of following types:-				
	1-gang switch plate	Each	6		
	Supply and installation of 3 pin switch socket combined unit with appropriate size of back steel box 16SWG, two coats of antirust paint, fixed recessed to walls or ceiling including all fixing accessories and of the following types:-				
2	3 pin 15 Amps switch Twin socket unit	Each	125		
3	Supply, Installation, testing and commissioning of following light fittings, ceiling, wall mounted Complete with LED Drivers, internal wiring, earthing terminal complete in all respects and duly approved by Engineer-in-Charge and of following types:				
4	LED Surface Mounted down light, 16 watts 220/240 volts, round approved type Standard, Supply and fixing	Each	231		
5	LED Panel 2x2 light , 35 watt 220/240 volts for wall or ceiling mounted approved type Standard, Supply and fixing.	Each	430		
6	Bulk Head Light 20W IP-65 220/240 volts for wall or ceiling mounted approved type Standard, Supply and fixing.	Each	16		
7	Ground Spot LED, 16 Watts, 220-240 Volts, approved type "Standard", complete supply and fixing.	Each	49		
8	LED Mirror light ,16 watt 220/240 volts for wall or ceiling mounted approved type Standard, Supply and fixing.	Each	21		
9	LED Surface Mounted down light, 27.5 watts 220/240 volts, round approved type Standard, Supply and fixing	Each	22		
10	Supply, installation, testing and commissioning of exhaust fans of following sizes complete with frame and of specified make including cost of all necessary materials and complete in all respects with all civil works such as dismantling and making good the same as directed by Engineer-in-Charge and also including fly-mesh/louvre as approved by Engineer-in-Charge:				
	i)24" dia	Each	8		
11	Supply, installation, testing and commissioning of single core, stranded copper conductor, PVC insulated, 450/750 volt grade in pre-laid conduits/trenches or on cable trays as per route shown on drawings or as directed by Engineer-in-Charge including cost of all necessary materials, termination, cable lugs properly crimped at both ends and of the following sizes and of the following sizes:-				
	a) Single Core, PVC insulated Copper Cable				
	1 core 25mm sq + 1 x 16mm sq as ECC	Rft	665		

S.No.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
12	Note: Contractor will carryout measurement as per shop drawing approved and will forward the same prior to purchase and installation for approval of Engineer-in-Charge.				
	Supply, installation, testing and commissioning of factory fabricated distribution boards for light/power, concealed type made of M.S sheet 16 SWG degreased, derusted, zinc phosphated finished with electrostatic powder coating, of approved colour with hinged door, lockable handle, protection plate, earth and neutral strip, complete internally wired, flexible earthing strap for door manufactured by any one of the approved manufacturers as specified and comprising as under:				
	a. Main Panel	No	1		
	INCOMING				
	1x1250/AMP, FP, ACB, 65KA with O/L & S/C Protection. NSI				
	Digital ammeter with CT 400/5				
	Digital voltmeter with phase selector switch				
	01- Volt meter 500V with (VSS) (ESI#240, P#248)				
	01- Amp meter 600A +ASS (ESI#239, P#248)				
	03- CT (Current Transformer) (ESI#230, P#247)				
	Indication lights Red, Yellow, Blue. NSI				
	OUTGOING				
	2x15AMP, TP, MCCB, 30KA with O/L & S/C Protection.				
	3x30AMP, TP, MCCB, 15KA with O/L & S/C Protection.				
	3x40AMP, TP, MCCB, 15KA with O/L & S/C Protection.				
	1x50AMP, TP, MCCB, 15KA with O/L & S/C Protection.				
	2x60AMP, TP, MCCB, 15KA with O/L & S/C Protection.				
	1x60AMP, FP, MCCB, 36KA with O/L & S/C Protection.				
	2x80AMP, TP, MCCB, 15KA with O/L & S/C Protection.				
	1x1250AMP, FP, ACB, 65KA with O/L & S/C Protection.				
	SPARE Circuit Breaker				
	1x60AMP, TP, MCCB, 15KA with O/L & S/C Protection.				
	2x80AMP, TP, MCCB, 15KA with O/L & S/C Protection.				
	1x100AMP, TP, MCCB, 30KA with O/L & S/C Protection.				
	Indication Lights Red, Yellow, Green (NSI)				
	b. DB-GF-1	No	1		
	INCOMING				
	1x30AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	8x10AMP, SP, MCB.				
	11x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	2x10AMP, SP, MCB, 6KA				
	2x16AMP, SP, MCB, 6KA				
	b. DB-GF-2	No	1		
	INCOMING				
	1x50AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	10x10AMP, SP, MCB.				
	14x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	2x10AMP, SP, MCB, 6KA				
	3x16AMP, SP, MCB, 6KA				
	c. DB-GF-COMPUTER LAB	No	1		
	INCOMING				
	1x80AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				

S.No.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
	OUTGOING				
	22x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	4x16AMP, SP, MCB, 6KA				
	d. DB-GF-RESEARCH LAB	No	1		
	INCOMING				
	1x40AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	9x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	2x16AMP, SP, MCB, 6KA				
	b. DB-FF-1	No	1		
	INCOMING				
	1x30AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	5x10AMP, SP, MCB.				
	9x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	1x10AMP, SP, MCB, 6KA				
	2x16AMP, SP, MCB, 6KA				
	b. DB-FF-2	No	1		
	INCOMING				
	1x40AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	7x10AMP, SP, MCB.				
	11x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	2x10AMP, SP, MCB, 6KA				
	2x16AMP, SP, MCB, 6KA				
	c. DB-FF-RESEARCH LAB	No	1		
	INCOMING				
	1x60AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	16x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	3x16AMP, SP, MCB, 6KA				
	b. DB-SF-1	No	1		
	INCOMING				
	1x30AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	7x10AMP, SP, MCB.				
	9x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	2x10AMP, SP, MCB, 6KA				
	2x16AMP, SP, MCB, 6KA				
	b. DB-SF-2	No	1		
	INCOMING				
	1x60AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	6x10AMP, SP, MCB.				
	19x16AMP, SP, MCB.				

S.No.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
	SPARE Circuit Breaker				
	1x10AMP, SP, MCB, 6KA				
	3x16AMP, SP, MCB, 6KA				
	c. DB-SF-COMPUTER LAB	No	1		
	INCOMING				
	1x80AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	22x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	4x16AMP, SP, MCB, 6KA				
	c. DB-SF-RESEARCH LAB	No	1		
	INCOMING				
	1x40AMP, TP, MCCB, 15KA				
	Digital Voltmeter With Selector Switch				
	Indication Lights Red, Yellow, Green				
	OUTGOING				
	9x16AMP, SP, MCB.				
	SPARE Circuit Breaker				
	2x16AMP, SP, MCB, 6KA				
12	CLOSED CIRCUIT TV SYSTEM				
	Wiring (Video, Audio and Power) for cameras with cable CAT-6 in appropriate size of PVC conduit as shown in drawings and as approved by Engineer in charge.	Point	58		
13	Supply, installation of 1080p, 2 MP HD CCTV Bullet type camera with housing bracket etc.	Point	21		
14	Supply, installation of 1080p, 2 MP HD Dome Type camera with complete auxiliaries and as approved by Engineer Incharge etc.	Each	37		
15	Supply, installation of Network Video Recorder (NVR) 256-channels with 32-port POE switches complete with all auxiliaries as approved by Engineer in charge.	Each	1		
16	Supply, installation of 40" color LED monitor (Philips, LG, VIVA or SONIC) complete in all respect.	Job	3		
17	Supply, installation of POE network switches 08-port complete with all auxiliaries as approved by Engineer in charge.	Each	7		
18	Supply, installation of RJ-45 connectors complete with all auxiliaries as approved by Engineer in charge.	Each	128		
19	Earthing Pit for Equipments				
1	Constructing, erecting, earthing pit including cost of excavation and back filling of the earth pit upto 3500 to 4500mm depth and including electrode comprising of one 16 mm dia earth electrode rod of 3600 mm long with loop conductor as bare copper conductor 70 mm ² to be drawn in 40mm dia uPVC sleeves from copper plate (50x200 mm) to earth terminal point or adjacent earthing pit or direct to equipment (as directed by Engineer-in-Charge) complete with thimbles, brass nuts and bolts for fastening earth conductor and also including constructing inspection pit 450mm x 450mm x 200mm with RCC cover complete with all necessary materials complete in all respects as per detail shown in the drawing with final testing and commissioning including the cost of earthing leads.	Each	2		
2	LIGHTENING PROTECTION SYSTEM				
	Supply, installation, testing & commissioning of Air Terminals (16mm Dia 36"long) copper rod with base and all accessories required for installation, as approved by the engineer in charge. (As per Early Streamer Emission (ESE) Type Lightning Protection System)	Job	1		
3	Supply and laying of 70 mm x 3mm Cu Strip condutor as down conductor to be connected to earthing pit. including cost of all necessary material	Rft	210		

S.No.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
4	<u>Earthing Pit</u>				
	Constructing, erecting, earthing pit including cost of excavation and back filling of the earth pit upto 3500 to 4500mm depth and including electrode comprising of one 16 mm dia earth electrode rod of 3600 mm long with loop conductor as bare copper conductor 70 mm ² to be drawn in 40mm dia uPVC sleeves from copper plate (50x200 mm) to earth terminal point or adjacent earthing pit or direct to equipment (as directed by Engineer-in-Charge) complete with thimbles, brass nuts and bolts for fastening earth conductor and also including constructing inspection pit 450mm x 450mm x 200mm with RCC cover complete with all necessary materials complete in all respects as per detail shown in the drawing with final testing and commissioning including the cost of earthing leads.	Each	2		
5	<u>Earth Loop Conductor</u>				
	Providing and laying earth loop conductor complete with fixing, arrangement from one earthing pit to another earthing pit with lugs and thimbles, washers and of the following sizes:				
	a. Bare copper conductor 70mm sq	Rft	50		
20	<u>PUBLIC ADDRESS SYSTEM</u>				
21	Wiring for speakers with 2x1.5 mm ² shielded stranded copper wire including cost of appropriate size of PVC 1 inch conduit shown in drawings and as approved by Engineer in charge.	Point	37.00		
22	Supply, installation of Remote Microphone as approved by Engineer in charge.	No	2.00		
23	Supply, installation of Ceiling Mounted Speaker 6W with tap settings (8 ohm) with complete auxiliaries shown in drawings and as approved by Engineer in charge.	No	37.00		
24	Supply, installation of Terminal Board (10 terminals) complete with auxiliaries and as approved by Engineer in charge.	No	5.00		
25	Supply, installation of Main Amplifier Ruck 600 Watt 4 zone selector with CD player complete with all auxiliaries and as approved by Engineer in charge.	No	1.00		
26	Supply, installation of Conduit Pipe PVC 1 inch dia as shown in drawing complete in all respect and as approved by the engineer incharge etc.	Point	37.00		
27	<u>GALVANIZED CEILING SUSPENDED, VERTICAL /HORIZONTAL CABLE TRAYS</u>				
	Supply at site, fabrication and installation of perforated cable tray made of GI sheet 14 SWG 8 ft. to 10 ft. long with sides 3" high to be installed on wall, or in vertical, or above false ceiling in horizontal position or floor mounted or as shown on drawing, including cost of hanging arrangement brackets made of angle iron 38mm x 38mm x 6mm installed at every 3 ft., cost of all necessary fixing accessories, complete in all respects, shop drawings of cable tray shall be submitted by the Contractor.				
	12" wide x 3" high.	Rft	317		
	6" wide x 3" high.	Rft	838		

S.No.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
28	TELECOMMUNICATION (DATA & VOICE)				
1	Supply, installation, testing and commissioning of Telephone Cabinet comprising of Optical Distributed Frame (ODF), fiber switch, patch panel for data, patch panel for voice and tag blocks complete in all respects as per drawings and specification.	No	1.00		
2	Supply, installation, testing and commissioning of telephone outlets RJ 11, including supply and fixing of 16 SWG sheet steel back box of suitable size, recessed in wall, column as required.	No	42.00		
3	Supply, installation, and commissioning of data outlets RJ 45 with 16 SWG sheet steel back box surface in wall column complete, for data communication as per drawings	No	139.00		
4	Supply, installation, and commissioning of wiring for data communication with CAT-VI UTP cable in 25 mm dia PVC conduit recessed in wall/column/ under floor complete, in all respect	No	139.00		
5	Supply, installation, and commissioning of wiring for telephone outlet. with CAT-VI UTP cable in 25 mm dia PVC conduit recessed in wall/column/ under floor complete, in all respect	No	42.00		
6	Supply, installation, testing and commissioning PABX comprising of following as specified in specifications and drawings.	No	1.00		
a)	10 Trunk lines				
b)	20 Extensions for DTFM telephone sets				
29	10 Extensions for dual channel digital telephone sets				
1	Integrated modem for remote service.				
2	Operator console				
3	Power supply unit				
4	EPABX card for voice and over IP option				
5	ISDN card for PRI (1 port)				
6	ISDN card for BRI (8 port)				
	1 Intel 2.0 Dual core processor, 512 MB RAM, 80 GB hard disk Drive, DVD drive, Windows XP professional, 17" LCD monitor etc complete in all respects.				
	Supply, installation, testing and commissioning of Analogue Telephone sets features of 10 speed dialing numbers, wall mounting option etc, as specified in specifications	No	42.00		
	Supply, installation, testing and commissioning of Main telephone junction box MDF (with Tag block having jumpering facility) for connection of 50 telephone extension points / data server etc, at both ends hammer tone finished of appropriate size, conforming to PTCL specifications.	No	1.00		
30	MAIN CABLES				
	Supply, installation, testing and commissioning of following size of cables for Distribution Board in already installed PVC conduit including all accessories, complete in all respect as shown on drawing.				
	Note: Contractor is advised to confirm the cable size, running lengths and termination as per site conditions before commencement of work.				
	From SS-4 LV panel to NASTEck Building Main Panel				
	4C - 240 Sq.mm Cu/XLPE/PVC + ECC 2x70 Sq.mm PVC/PVC	Rm	137.00		
				TOTAL	

Sukkur IBA University
Construction of NAS Technolgy Park

SUMMARY OF COST PLUMBING

S.#	Description		Amount
Part - D	Plumbing Works		
1	PLUMBING WORKS Schedule Item (INTERNAL)	RS:	
2	PLUMBING WORKS Non-Schedule Item (Internal)	RS:	
	TOTAL (Rs.)		

Client

Contractor

Priced Bill of Quantities					
Client:	Sukkur IBA University	Job No.		Revision	
Project:	Constuction of NAS Technology Park	repd. By		Date :	
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By		Date:	
PLUMBING					
S.No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Part -D-	PLUMBING WORKS				
I	Schedule Plumbing Works Internal				
1	ORISA TYPE W.C, PLASTIC FLUSHING CISTERN 3 GALLONS WITH 4" EARTHEN WARE TRAP & PLASTIC THUMBLE Providing and fixing orisa type white or colour glazed earthen ware w.c pan with cost of low level plastic flush tank of 3 gallons capacity of approved quality i/c making requisite number of holes in wall, plinth & floor and making good in cement concrete 1:2:4.with 4" dia earthen ware trap and plastic thumble. Chapter-1,item-3A(ii),Page-6	Each	-	11,282.50	-
2	EUREOPEAN TYPE W.C Providing and fixing European white glazed earthen ware wash down w.c pan complete with and I/c the cost of white/black plastic seat (Best Quality) and lid with C.P brass hinges and buffer, 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1-½" dia white porcelain enamelled flush bend ¾" dia and making requisite number of holes in walls, plinth and floor for Pipe connections and making good in cement concrete 1:2:4 (Foreign Quality) Chapter-1,item-5,Page-6	Each	30.00	42,354.59	1,270,637.70
3	URINAL Providing and fixing flat black lipped from urinal basin (of not less than 17" in height) of white glazed earthen ware complete with & including the cost of 1 gallon C.I, automatic flushing cistern with fittings, a pot cock C.I. or W.I. brackets standard flush pipe with fitting standard waste pipe (enameled iron) coanection complete and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4.(Foreign or equivalent) Chapter-1,item-(7),Page-7	Each	6.00	4,815.14	28,890.84
4	FLOOR TRAP Providing and fixing 6" x 2" or 6" x 3" C.I floor trap of the approved self cleaning design with a C.I screwed down grating with or without a vent arm complete with and I/c making requisite number of holes in walls, plinth & floor for pipe connections & making good in cement concrete 1:2:4. Chapter-1,item-20,Page-9	Each	30.00	2,042.43	61,272.90
5	BELGIUM MIRROR 24" X 18" Providing and fixing 24" x18" beveled edge mirror of belgium glass complete with ½" thick hard board and c.p screw fixed to wooden plate. Superior Quality Chapter-2,item-3a,Page-10	Each	30.00	2,106.00	63,180.00
6	SOAP TRAY EARTHEN Supplying & fixing soap tray earthen ware with c.p screw etc. complete. Chapter-2,item-5,Page-10	Each	36.00	585.00	21,060.00
7	CP BIB COCK ½" Dia S/Fixing long bib-cock of crystal head with ½" dia Chapter-6,item-13(b),Page-18	Each	3.00	2,784.60	8,353.80
8	HANDLE VALVES Providing and fixing handle valves (china). (i) 1" Dia G.I Pipe i/c all fitnngs etc; (ii) 1-1/2" Dia G.I Pipe i/c all fitnngs etc; (iii) 2" Dia G.I Pipe i/c all fitnngs etc; Chapter-6,item-5, Page-17	Each Each Each	9.00 3.00 1.00	1,907.10 2,199.60 2,492.10	17,163.90 6,598.80 2,492.10

S.No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
9	C.P MUSLIM SHOWER Supplying & fixing C.P Muslim Shower with crystal head etc. complete. For W.C. For Urinal	Each Each	30.00 12.00	5,475.60 5,475.60	164,268.00 65,707.20
	Chapter-6,item-19(b),Page-19				
10	CP TEE-STOP COCK ½" Dia Supplying & fixing C.P Tee-Stop cock with crystal head etc. complete. For W.C.	Each	30.00	1,673.10	50,193.00
	Chapter-6,item-12(b),Page-18				
11	C.C GULLY TRAP 6"x6"x4" Providing & fixing 6"x4" C.C gully trap with 4" outlet complete with 4" thick 1:2:4 C.C for bed & ½" thick cement plaster (1:3) to the kerb, C.I grating 6"x6" & C.I cover and frame 12"x12" (inside) etc.complete.	Each	3.00	3,037.32	9,111.96
	Item-1 (a-i) , Page-23				
12	STAINLESS STEEL SINK Providing and fixing steel sinks stainless local make complete with cast iron or wrought iron brackets 6 inches built in wall,1-½" C.P rubber plug chrome plated brass chain ,1-½"C.P brass waste, with 1-½" P.V.C waste pipe & making requisite number of holes in wall & plinth & floor for pipe connection & making good in cement concrete 1:2:4. Steel sink stainless sized 36" x 18" local make (Standard Pattern).	Each	1.00	10,215.27	10,215.27
	Chapter-1,item-19b,Page-18				
13	SINK MIXTURE CP ½" Dia Supplying/Fixing sink mixture cock of superior quality with c.p head etc. complete.	Each	1.00	2,550.60	2,550.60
	Chapter-6,item-17,Page-				
	(A) TOTAL COST WITHOUT PIPES				1,781,696.07
	ADD PERMIUM _____% Above or Below				
	(A) TOTAL COST WITHOUT PIPES				
14	G.I PIPES WATER SUPPLY (Internal) Providing G.I Pipes, specials, and clamps etc, including fixing cutting & fitting complete with and I/c the cost of breaking through walls and roof, making good etc. painting two coats after cleaning the pipe etc. with white zink paint with pigment to match the colours of the building and testing with water to a pressure head of 200 feet and handling . Cold Water (i) 3/4" Dia G.I Pipe i/c all fitngs etc; (ii) 1" Dia G.I Pipe i/c all fitngs etc; (iii) 1-1/4" Dia G.I Pipe i/c all fitngs etc; (iv) 1-1/2" Dia G.I Pipe i/c all fitngs etc; (v) 2" Dia G.I Pipe i/c all fitngs etc; (vi) 2-1/2" Dia G.I Pipe i/c all fitngs etc; (vii) 3" Dia G.I Pipe i/c all fitngs etc; (viii) 4" Dia Pipe G.I Pipe i/c all fitngs etc; Hot Water (i) 3/4" Dia G.I Pipe i/c all fitngs etc; (ii) 1" Dia G.I Pipe i/c all fitngs etc; (iii) 1-1/4" Dia G.I Pipe i/c all fitngs etc; (iv) 1-1/2" Dia G.I Pipe i/c all fitngs etc; (v) 2" Dia G.I Pipe i/c all fitngs etc; Chapter-4,item-1,Page-193, Add Item 1B for 3/4" & 1" Dia	Rft Rft Rft Rft Rft Rft Rft Rft Rft Rft Rft Rft Rft Rft Rft	130.00 300.00 120.00 35.00 90.00 120.00 60.00 30.00 130.00 300.00 150.00 45.00 20.00	334.05 503.70 639.42 731.85 977.55 1,234.95 1,515.75 1,808.25 334.05 503.70 639.42 731.85 977.55	43,426.50 151,110.00 76,730.40 25,614.75 87,979.50 148,194.00 90,945.00 54,247.50 43,426.50 151,110.00 95,913.00 32,933.25 19,551.00

S.No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
15	GUN METAL FULL WAY VALVE P/F full way gun metal vales with wheel, threaded or flanged end with rubber washer etc; Light Pattren				
	Cold Water				
	(iv) 2-1/2" Dia (Light Pattren)	Nos	1.00	2,316.60	2,316.60
	(v) 3" Dia G.I (Light Pattren)	Nos	2.00	2,375.10	4,750.20
	(vi) 4" Dia G.I (Light Pattren)	Nos	1.00	2,550.60	2,550.60
	Hot Water				
	(i) 3/4" Dia (Light Pattren)	Nos	3.00	1,614.60	4,843.80
	(ii) 1" Dia (Light Pattren)	Nos	2.00	1,965.60	3,931.20
	(iii) 1-1/4" (Light Pattren)	Nos	2.00	2,024.10	4,048.20
	(iv) 1-1/2" (Light Pattren)	Nos	1.00	2,141.10	2,141.10
	Chapter-6,item-4-B,Page-				
	U PVC PIPES (Sewerage Internal)				
	Providing, Laying uPVC pressure Pipes of Class 'B' (equivalent make) fixing in trenches i/c cutting, fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 61 meter or 200 ft.				
	(i) 32 mm pipe (1-1/2"Ø)	Rft	12.00	119.15	1,429.80
	(ii) 50mm diameter pipe (2"Ø)	Rft	100.00	150.84	15,084.00
	(ii) 75 mm diameter pipe (3"Ø)	Rft	330.00	255.18	84,209.40
	(iii) 110 mm diameter pipe (4"Ø)	Rft	300.00	384.82	115,446.00
	(iv) 160mm diameter pipe (6"Ø)	Rft	490.00	732.09	358,724.10
	(V) 210 mm diameter (8"Ø)	Rft	235.00	1,113.10	261,578.50
	Chapter-(II) D item-1,2,3 (a,b,d,e)Page-				
16	U PVC PIPES (Rain Water Pipe Internal)				
	a) Providing, Laying uPVC pressure Pipes of Class 'B' (equivalent make) fixing in trenches i/c cutting, fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 61 meter or 200 ft.				
	a) 4" Dia	Rft	515.00	384.82	198,182.30
	b) 6" Dia	Rft	100.00	732.09	73,209.00
	Chapter-(II) D item-1 (b,d)Page-23				
	b) Providing, Laying uPVC pressure Pipes of Class 'D' (equivalent make) fixing in trenches i/c cutting, fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 122 meter or 400 ft.				
	a) 3" Dia (For Sum Pump)	Rft	60.00	384.12	23,047.20
	b) 4" Dia	Rft	30.00	631.87	18,956.10
	c) 6" Dia	Rft	30.00	1,347.90	40,437.00
	d) 1-1/2" Dia (For Water Filling)	Rft	60.00	119.15	7,149.00
	e) 3" Dia	Rft	700.00	384.12	268,884.00
	k)8" Dia Pipe	Rft	400.00	2,053.00	821,200.00
	Chapter-(II) D item-3 (f,h)Page-24				
	17 Constructing manhole or inspection chamber for the required dia of circular sewer and 3'-6" depth with walls of B.B in cement mortar 1:3 cement plastered, ½" thick, inside of walls and 1" (25mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 1-1/2'x1-1/2' (457x457 mm) of 1.75 cwt. (88.9 kg) embeded in plain C.C 1:2:4 and fixing 1"(25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) c/c duly painted etc. Complete as per standard specification and drawing.	Nos	10.00	55,584.18	555,841.80
	Chapter-2 (O),item-1(a),Page-47				
	(B) TOTAL COST FOR PIPES				3,889,141.30
	ADD PERMIUM _____% Above or Below				
	(B) TOTAL COST FOR PIPES				
	TOTAL (A+B)				

Priced Bill of Quantities					
Client	Sukkur IBA University	Job No.	Revision:		
Project:	Construction of NAS Technology Park	Prepd. By	Date:		
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By			
PUMBING WORKS (Non- Schedule)					
Sr. No	Description	Unit	QTY.	Rate (Rs.)	Amount (Rs.)
1	<u>VANITY TYPE BASIN</u> Glazed earthen ware Vanity type wash hand basin including all fittings which shall be of best quality manufactured by Master, Sonex or approved equivalent, with bracket set, waste pipe, waste coupling, flexible CP connection pipes, CP T-stop cocks, pillar cock including mixer, heads, washers, CP bottle traps, rubber plug with chain and other relevant fittings, (All accessories/ fittings shall be Master, Sonex or approved equivalent) complete in all respect as per drawings, conforming to specification and as directed by the Engineer.	Nos	38.00		
2	<u>SUMP PUMP:</u> Supply Installation testing and commissioning of submersable drain pump (GRUNDFOSS) 50USGPM at 20ft discharge head.(1Duty-1 standby)	Set			
3	<u>DRAINAGE / SEWAGE ACCESSORIES AND STRUCTURES</u> (A) Acoustic cladding of drainage pipe; 25 mm thick fiber glass batting; wrapped with 2 mm thick barrier material with plastic or steel retention straps; including all necessary accessories as shown in detail.				
	(i) 75 mm diameter pipe (3"Ø)	ft	30.00		
	(ii) 110 mm diameter pipe (4"Ø)	ft	90.00		
	(iii) 160 mm diameter pipe (6"Ø)	ft	40.00		
	(B) Drainage specialties/fixtures; including lead flashing and all related fixing materials as per drawings and specifications (JR Smith or approved equal)				
	(c)Grease trap, JR Smith 8000 series, FIG. 8004	No	2.00		
	(d) Floor clean out dia 4"	No	12.00		
	(e) Clean out	No	2.00		
	(f) Rain Water Outlet, CI (Scupper Type),4" dia	No	6.00		
	(g) Vent Cowl UPVC				
	(i) 50mm Dia	No	2.00		
	(i) 75mm Dia	No	3.00		
	(i) 100mm Dia	No	6.00		
	(h) Catch Basin With CI Grating 18"X18"	No	20.00		

Sr. No	Description	Unit	QTY.	Rate (Rs.)	Amount (Rs.)
4	COLD WATER INSTALLATION				
	WATER DISTRIBUTION PUMP				
	Pumps and controllers; including all necessary wirings, conduits, identifications and other accessories as required to make the equipment operational as per drawings and specifications.				
	Water Transfer Pump motor set one duty one standby.				
5	Pump duty:at 302 ft discharge head- 60 GPM	set	1.00		
	(A) HOT WATER SYSTEM				
	i) Hot Water Gyser				
6	Natural draft gas fired storage type domestic hot water heaters complete with automatic supply water temperature controller range 100°F - 160°F, on-off burner control suitable for upto 10mmWC gas supply with standing pilot and shut-off gas supply arrangement in case of any malfunctioning or pilot burn failure or temporary gas supply failure. The automatic control to be Roberthsaw/Penn manufacture or approved equal. Gas operated water heater to be of singer or approved equal. 100 USgallons	No	2.00		
	Insulation for hot water supply pipes 1" thick polyurethane				
	50Kg/m3 density insulation				
	(i) 3/4" Dia Pipe	R.ft	150.00		
7	(ii) 1" Dia Pipe	R.ft	360.00		
	(iii) 1-1/4" Dia Pipe	R.ft	165.00		
	(iv) 1-1/2" Dia Pipe	R.ft	60.00		
	28 gauge GI sheet cladding on exposed insulated hot water pipes				
	(i) 20 mm Pipe	R.ft	150.00		
	(ii) 25 mm Pipe	R.ft	360.00		
	(iii) 32 mm Pipe	R.ft	165.00		
	(iv) 40 mm Pipe	R.ft	60.00		
	TOTAL COST OF PLUMBING WORKS (Rs.)				

Sukkur IBA University
Construction of NAS Technolgy Park
FIREFIGHTING WORKS SUMMARY

S.#	Description	Amount (Rs.)
1	FIREFIGHTING WORKS FIREFIGHTING WORKS	
	Total (Rs.)	

Client

Contractor

Bill of Quantities					
Client	Sukkur IBA University		Revisio	Job No.	
Project:	Construction of NAS Technology Park		Date:	Prepd. By	
Consult:	Naqvi & Siddiquie, Islamabad			Chkd. By	
FIREFIGHTING WORKS (Non-Schedule)					
Sr.#	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
1	FACP : Providing and fixing, testing and commissioning of 04 loop analogue fire control panel surface /recessed mounting type with full switching programming capabilities ,system suitable operation of 230 volts 50hz with full functionality as per specification of manufacturer allied components. with T&P etc and as per specific drawing imported approved make /model or as approved by the engineer in-charge as required.	JOB	1		
2	SMOKE DETECTOR : Providing and fixing, testing and commissioning of analogue addressable ionization smoke detector with addressable base with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required.	JOB	90		
3	MANUAL BREAK GLASS :Providing and fixing, testing and commissioning of addressable manual brake glass unit with addressable base with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc imported approved make/model or as approved by the engineer in-charge as required.	JOB	5		
4	SOUNDER :Providing and fixing, testing and commissioning of addressable electronic sounder unit with addressable base with full functioning switching programming capabilities ,system as per specification & recommended of drawing / manufacturer with allied components with T&P etc approved make/model or as approved by the engineer in-charge as required.	JOB	5		
5	Wiring for Fire alarm system with 2 Core 1.5mmSq Fire Rated PVC insulated copper wire make as specified from FACP/FAJB includings cost of PVC conduit partly shared. Complete in all respects including no. of wires as per standard practice and shop drawings approved by Engineer-in-Charge. Excluding cost of smoke/heat detectors as per NFPA-72 requirement.	M	600		
6	RESCUE BOX :Supply and fixing of Rescue Boxes as per drawing & NFPA relevent code requirements.	No	3		
7	CO2 EXTINGUISHER :Supplying, installing and commissioning of CO2 make fire Extinguisher containing Mono Ammonium Phosphate Powder 50, Stored Pressure Type, Pressure Gauge, fitted with discharge hose, wall mounting bracket etc., Discharge Time less than 15 Secs, Controllable discharge mechanism, Range minimum 4 Meters, applicable on Class A,B,C and electrically started Fire, A Rating- 8A, B Rating 34B, Can Construction : Deep drawn & Co2 Mig welded, Valve Construction : Forging & Machining, Internal Coating of Can : Epoxy Powder coating, External Coating of Can : Epoxy Polyster Powder coating, Sheet metal thickness : 1.60MM, ISI approved as per IS:15683:2006	No	7		

Sr.#	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
8	DCP EXTINGUISHER 6 KG: Supplying, installing and commissioning of portable Fire Extinguisher containing 6 kg (Dry chemical) Stored Pressure Type, Pressure Gauge, fitted with discharge hose, wall mounting bracket etc., Discharge Time less than 15 Secs, Controllable discharge mechanism, Range minimum 4 Meters, applicable on Class A,B,C and electrically started Fire, A Rating- 8A, B Rating 34B, Can Construction : Deep drawn & Co2 Mig welded, Valve Construction : Forging & Machining, Internal Coating of Can : Epoxy Powder coating, External Coating of Can : Epoxy Polyester Powder coating, Sheet metal thickness : 1.60MM, ISI approved as per IS:15683:2006	No	13		
9	WET CHEMICAL EXTINGUISHER: Supplying, installing , testing and commissioning of wet chemical fire extinguisher 6 Kg as per drawing.	No	3		
10	FIRE BLANKET: Supply, installation, testing and commissioning of fire blanket as per drawing.	No	5		
11	FIRE BRIGADE CONNECTION: Providing and fixing four way fire brigade connection 9 (Model No. NWR 115 & NWRX 115, NAFFCO 6" x 4 Way Breeching Inlet) in gun metal with working pressure 10 Bar and tes pressure 20 Bar FM/UL approved. The breeching inlets are manufactured to comply with BS 5041 PART-3:1975 standard comprising of male instantaneous connections complying with BS 336:2010, drain valves complying with BS 5154, PN16 rated and non-return valves outlet 4" dia flange sheroidal graphite iron to BS EN 1563:1997. House in steel cabinet fabricated from 1.5mm thick steel sheet having lockable arrangement, open able glazed door, Including painting a coat of primer and two coats of postal re enamel, necessary supports for the cabinet etc. Complete as per NFPA-13 requirements.	No	1		
12	FIRE HOSE REEL: Providing and fixing first aid hose reel full swinging type with 30 meter long 20mm dia rubber lined Maruti pipe with shut off nozzle of 5 mm dia, house reel wiht all sockets, nipples, elbows and ball valve as per drawing complete with all necessary fittings and requirements as per NFPA-14	No	5		
13	FIRE PUMP: Supply, fixing, testing and commissioning of Firefighting pump 450 LPM, NAFFCO or SAFFCO made, with base frame and all accessories complete with all necessary fittings FM/UL approved and requirements as per NFPA-20 requirements.	No	1		
14	MS. SEAMLESS PIPE: Supply and Installation of epoxy painted seamless MS steel pipe schedule 40.According to ASTM-A 53 / ASTM A 106, ISO standard 9001, 14001, OHSAS 18001 for firefighting water, medium weight, including all fittigns, brackets, flanges, tees, expansion devices, hanger's. Note: IIL MS 40 or equilent pipe				
	4" DIA	RFT	75		
	2.5" DIA	RFT	210		
15	NON RETURN VALVE: Supplying, installing, testing and commissioning of Swing NRV flanged as per BS with required flange, nuts, bolts etc. complete in all respect and as per direction of Engineer incharge.According to NFPA-25 & NFPA-69 compliance. 4" Dia	No	1		

Sr.#	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
16	EXIT DIRECTION SIGN: Supply, installation in position of the signage Fire Exit signage at each stair on every floor, indicating the direction of fire exit, lettering size shall be 7.5 cm with contrasting color from back ground BS 5499, ISO 7010, BS-EN-60598-2-22 (1998) luminaire.	No	12		

Sr.#	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
17	EXIT SIGN: Supply, installation in position of the signage Fire Exit door signage at each floor, indicating the direction of Fire Exit door (in case of fire) , lettering size shall be 7.5cm with contrasting color from background . Size shall be 9" height x 9" width as per BS 5499 requirements.	No	5		
18	ASSEMBLY POINT: Supply, installation in position of the signage fire assembly point signage at each floor, indicating the direction of fire assembly point (in case of fire) , lettering size shall be 7.5cm with contrasting color from back ground. Size shall be 9" height x 9" width & as per BS 5499 code requirement.	No	1		
19	FIRE EQUIPMENT SIGN: Supply, installation in position of the signage Firefighting equipment location signage at each floor, indicating the direction offirefighting equipment location sign (in case of fire) , lettering size shall be 7.5cm with contrasting color from back ground. Size shall be 9" height x 9" width acrylic plate, silk-screened printing & as per BS 5499 code requirement.	No	15		
20	PROHIBITION SIGN: Supply, installation in position of the signage Prohibition signage at each floor, indicating the Prohibition sign (in case of fire) , lettering size shall be 7.5cm with contrasting color from back ground. Size shall be 9" height x 9" width as per BS 5499 code requirement.	No	4		
21	NON SLIPPERY STRIPS: Supply , installation of nos slippery strips as per drawing and as per NFPA standard.	NO	130		
22	FIRE RATED DOOR(2hr FRD): Imported, China Made Hollow metal fire rated doors as per NFPA specification for stability and integrity. Pressed Galvanized steel conforming to NFPA with specification. Certified UL/FM and ISO 9001 certified fire door shall have tested at Local and International labs for maximum rating of 2hrs with non vision panel. Test certificates should be available for panels as part of the fire door assembly. Manufacturer test certificate shall cover doors both single and double leaf and all doors supplied should be within the tested specimen, deviation in specification and sheet thickness other than what is mentioned in the test certificates are not allowed. Proper label confirming the type of door and the hourly rating is mandatory.	NO	1		
23	CEILING MOUNTED AUTO DCP 6 KG: Supplying, installing and commissioning of 6 kg ceiling mounted auto CO2 fire Extinguisher as per drawings and NFPA-10 Standard.	NOS	3		
24	ANTI SHUTTER SHEET: Supplying and installing of anti shutter on glass as per drawings	SFT	3290		
TOTAL COST OF FIREFIGHTING WORKS (Rs.)					

Sukkur IBA University
Construction of NAS Technolgy Park

EXTERNAL SUMMARY

S.#	Description	Amount (Rs.)
1	Over Head Tank Structure works without Steel	
	Total - A	

Client

Contractor

Priced Bill of Quantities					
Client:	Sukkur IBA University	Job No.	Revision		
Project:	Construction of NAS Technology Park	Prepd. By	Date :		
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By	Date:		
STRUCTURE WORK FOR O.H WATER TANK (01 No)					
S.No	DESCRIPTION	UNIT	QTY.	RATE(RS)	AMOUNT(RS)
Item-01	REINFORCED CEMENT CONCRETE Reinforced cement concrete (1:1½:3) using Hi Bond Pre Packaged Polymer Modified Mortar (DHPMM) or more rich to provide 6"x12" cylinder strength of 4000 psi at 28 days age (equivalent cube strength = 4500 psi) including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms, moulds, lifting, shuttering, curing, rendering and finishing exposed surface including screening and washing of stone aggregate. a) Columns b) Beams c) Bottom Slab d) Walls e) Top Slab Chapter-04,Item 6(a)(II) & d Page-25	per cft	50.00	837.62	41,881.00
		per cft	115.94	837.62	97,111.57
		per cft	444.70	837.62	372,492.23
		per cft	403.88	837.62	338,293.78
		per cft	263.34	837.62	220,581.99
Item-02	PVC water stopper Providing "Expansion Joint "in concrete work of 9" wide corugated PVC water stopper (with bulb) i.c soldering cost of material and labour etc. complete. Chapter-(II), ItemB(2) Page-144	Rft	92.75	568.09	52,690.35
Item-03	HI BOND PRE-PACKAGED POLYMER MODIFIED MORTAR (DHPMM) Extra cost due to use of Hi Bond Pre-packaged Polymer Modified mortar (DHPMM) as an admixture in concrete mix for increasing durability, to be used in concreting, flooring, block/brick stone masonry or plastering as % by weight of cement. (For O-H Tank) i) Over head tank Chapter-04, Item 7(ii) Page 26	P.Kg	50.00	500.00	25,000.00
Item-04	MS RUNGS 3/4" DIA Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of bending wire (also includes removal of rust) Chapter-04, Item 8(a) Page 26	P.Cwt	1.00	18,934.02	18,934.02
Item-05	TERRAZO FINISH 3/8" THICK DADO Mosaic or dado or skirting one part of grey cement and two parts of marble chips laid over 1/2" thick cement plaster 1:3 complete with finishing. (1/2" thick) Chapter-08, Item 38(b) Page 47	P.Sft	497.00	261.65	130,040.05
Item-06	VENT PIPE (PVC) 3" DIA CLASS 'B' Item D(4)(b),Part-B(II) Vol-III, Page 111	Rft	10.00	406.12	4,061.20
Item-07	C.I MAN HOLE COVER AND FRAME Providing and fixing C.I Manhole Cover with frame i/c cost of material. PHE Chapter -II, Item (I) 1 Page-123	Cwt	2.00	38,813.00	77,626.00
Item-08	ORNAMENTAL JALI Providing & Fixing ornamental cement jali 2" thick 1:2:4 without steel Ch#4, item 11(i), page 26	P.Sft	300.00	141.04	42,312.00
				TOTAL (Rs.)	1,421,024.19
				ADD PERMIUM _____% Above or Below	
				TOTAL (Rs.)	