QUAID E AWAM UNIVERSITY OF ENGINEERING SCIENCES AND TECHNOLOGY NAWABSHAH Summary of Cost for Telecommunication Engineering Department

A- S	cheduled Items	<u> </u>	-
1	Schedule Civil Works except steel and RCC	Rs.	
2	Schedule Civil Works steel		
3	Schedule Civil Works except RCC		
4	Non schedule Architectural Works		
	Total-1	Rs.	
	Schedule Plumbing Works		. '
1	Schedule Plumbing Works SI	Rs.	
2	Non Schedule Plumbing Works		
	Total-2	Rs.	
	Different cost of SR cement & Cartage		
1	Cartage	Rs.	6,644,868.95
2	Different cost of SR cement		33,361.20
	Total-3	Rs.	6,678,230.15
	`Cotal -1+2+3	Rs.	
	External development		
1	Drainage Work	Rs.	
. 2	External development	Rs.	
	'iotal-4		
	Grand Total	Rs.	

Project Director

Bill of Quantities for Telecommunication Engineering Department

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
ltem-01	EXCAVATION FOR FOUNDATION		 	<u> </u>	
	Excavation in foundation of building bridges				
ĺ	and other structures including dagbelling,				
	dressing, refilling around structure with				
	excavated earth watering and ramming lead		1		
	up to 5 ft.				
	i) In ordinary soil.	38,916.00	%0 cft	3176.25	123,606.95
Ita 02	Item 18(b) Page-4				
	EARTH FILLING				
	 i) Filling, watering and ramming earth in floor with surplus earth from foundation lead up to 				
	one chain and lift up to 5 ft.	17,758.00	%0 cft	1512.5	26.050.00
	Item 21 Page-4	17,736.00	700 CIC	1312.5	26,858.98
Item-03	EARTH FILLING				
	i) Filling, watering and ramming earth in floor				
	with new earth excavated from our side lead				
	up to one chain and lift up to 5 ft.		%0 cft	3630.00	-
	Item 21 Page-4				
Item-04	P.C.C (1:4:8)				
	Coment 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).	8,734	% cft	11288.75	985,959.43
	Item 5(i) Page-16				-
	P.C.C (1:3:6)				
	Cement concrete plain (1:3:6) using sulphate				
	resistant cement type (v) including placing,				
	cc mpacting, finishing, curing, complete,				
	(Licluding screening and washing of stone				
	aş gregate without shuttering).	2,851	% cft	12595	359,083.45
	Item 5(h) Page-16				-
Item-06	CEMENT PLASTER UPTO PLINTH	j			
	Cement Neru plaster 1:2 using sulphate		•		
	resistant cement type (v)	7,890	% sft	1438.46	113,494
	Item 5(b) Page-51				
	BRICK MASONRY IN FOUNDATION &				
	PINTH Process brick work in foundation 8 minute in				
	Pacca brick work in foundation & plinth in				
	cement sand mortar 1:6 using sulphate				
1	resistant cement type (v).	5,487	% cft	11948.36	655,606.51
Item-08	Item 4(e) Page-25 GRADED STONE				
item oo	Dry rammed brick or stone ballast 1½" to 2"			_	
	Item (2) Page-15	6,489	% cft	3327.5	215,921.48
Item-09	OKNAMENTAL JALI				
	Providing and fixing ornamental cement	1,650	nor sel	226.02	000.000.00
[i	al. 2" thick (1:2:4) with out steel.	1,030	per sft	226.02	372,933.00
ľ	Item 11 Page-17		J		
ı	nem 11 rage-1/	ļ	[ł	

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
	(.I MAN HOLE COVER AND FRAME Froviding and fixing C.I Manhole Cover with frame i/c cost of material.	2	CWT	6985	13,970.00
	Item (j) 1 Page-35	· ·	""	0,03	13,570.00
	FRICK MASONRY IN SUPER STRUCTURE (ABOVE PLINTH LEVEL)				
	Providing and laying approved first class burnt.		1		
	brick masonry in super structure walls at any				
	height and any floor, laid and jointed with				
	ement and approved source sand machine		ļ		
	nixed 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				
	d rected by the Engineer				
	Internal Walls				
	Ground Floor (Item No. 5. (i e) & 6 ii (where				
	required)				
	4 1/2""thick and above internal/external walls in (1:4) CSM	1 100 00		400.05	
	9"thick and above internal/external walls in	1,190.00	cft.	132.27	157,401.30
	(1:6) CSM	15,474.00	cft.	126.74	1,961,174.76
	Gound Floor (Item No. 5. (i e) & 6 ii (where	13,174.00	CIU.	120.74	1,701,174.70
	rs quired)				·
	4 1/2""thick and above internal/external walls				
	n (1:4) CSM	1,143.00	cft.	138.00	157,734.00
ļ	thick and above internal/external walls in				,
1.	1:6) CSM	13,749.00	cft.	131.12	1,802,768.88
	Mumty / roof level/parapet				
	1/2""thick and above internal/external walls	4.470.00			
l¹	n (1:4) CSM Item-5, Page 21	1,150.00	cft.	143.73	165,289.50
tem-12					;
6	MASTER/EQUIVALNET MAKE)				
	Providing and fixing glazed ceramic tiles of		ļ		
	ine as below of approved make and texture			Į	
	hade in dado set over cement slurry and				ļ
	il ing the joints with neat white cement with				
	natching pigments including 3/4" thick base				
	plaster of cement, sand (1:4) with curing and	ľ			J
	leaning etc., complete as per drawings,				
	pecifications and as directed by the Engineer]	1		
	Fround Floor + First Floor	ĺ		1	
) 12"x18"/any size approved by engineer				
. Ih	I I L X I B / 2 N V S 17 P 2 N D T O V A D A I R A P P I	2,953.00	sft.	282.97	835,610.41

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
i.	NON SKID CERAMIC FLOORINGTILE Froviding and laying non skid ceramic tiles 12"x12" in floor of approved shade with cement slurry laid in slope towards floor drain and including filling the joints in neat white pigment to match the color of tiles in floors etc.k, complete as per drawings, specifications and as directed by the Engineer Ground Floor + First Floor Item-25, Pag 43 Plain Cement Sand Wall Plastering, Chapter No.9, Page 52 Providing and applying 3/4" thick plaster at any floor or at any height using approved quality sand preferably machine mixed mortar, ir cluding all bends, corners, recesses including scaffolding and hacking the concrete surfaces, arching the masonry joints and providing 8" wide GI wire mesh of 17 SWG 1"x1" size fixed with GI staples on masonry joints, concrete joints. All plaster to be finishes smooth with steel float in true to level, line and plumb and properly cured, complete as per drawings, st ecifications and as directed by the Engineer. Ground Floor, Item No. 13 c Internal walls/columns plaster 3/8" thick in 1:6 CSM		sft.	277.47	524,418.30
íi.	a) Ground Floor b) 1st floor c) / Mumty G: ound Floor + First Floor, Item No. 11 (c) External Surfaces 1/2" thick 1:4 CSM on wills/up stand/down stand beam projection.	49,853.00 46,918.00	%sft. %sft. %sft.	2,122.72 2,262.72 2,423.93	1,058,239.60 1,061,622.97 -
	a) Ground Floor	11,574.00	%sft.	2,283.93	264,342.06
	b)1st floor c) Parapet / Mumty	7,867.00	%sft.	2,262.72	178,008.18
	Chapter No. 9, Page 52	9,548.00	%sft.	2,423.93	231,436.84
Item-15	Distempering Three Coats	96,771.00	sft.	10.79	1,044,159.09
	Item-24 (c), Page 53	i =,: . =		10.77	1,077,133,03
	Preparing surface and painting with weather cost including rubbing the surface, filling and painting with weather cost of approved make, to nplete (new surface) three costs a) Plaster surface external	28,989.00	sft.	25.68	744 427 50
	b) Cement concrete jali	2,415.00	sft.	25.68 25.68	744,437.52 62,017.20
IA 3.	Item - 38 A+B, Page 56				02,017.20
icem-17](reinent pointing struck joints on walls Item-19 (a), Page 53	125.00	%sft.	1,287.44	1,609.30

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
ltem-18	1 1/2 "thick mosaic flooring consisting of 1/2" riosaic topping of one part of grey cement to two part of marble chips laid over 1 " thick fooring of 1:2:4 cement concrete including				
Itam 10	rubbingand polishing complete Item-22, Page 42	105.00	%sft.	9,258.67	9,721.60
Itteini-19	Extra labor rate for making grooves of 1"x1/4" or 3/4" x 1/2" plastered surface with true edges both vertically and horizontally with uniform depth and with groove base smoothly		1		
	finished etc. complete as per instruction of Engineer Incharge	4,925.00	rft.	7.71	37,971.75
Item-20	Item-34, Page 55 Extra labor for making cement plaster pattas/band where required width not less	,		1	37,771.73
	than 6" width fine finishing as directed Item-35, Page 55	1,562.00	rft.	19.25	30,068.50
	Providing and laying deodar wood wardrobe it cluding boxing with back shelves shutters of MDF 3/4" thick both side laminated with drawers and brass fittings such as handles plane hinges locking arrangement rod, shoe rack, complete as per approved design (except				
	paint / polish) Item-24, Page 61	450.00	sft.	2,364.65	1,064,092.50
	Providing and applying three coats of enamel painting (Mat finish/all rounder including cleaning, approved make premixed putty filling, sand papering and a coat of primer or mplete as per manufacturers standards and as directed by the Engineer		;		
ł	On wood surface /steel chowket three coats Item-5 (c) (l) & (II), Page 70	1,675.00	sft.	21.16	35,443.00
ľ	Providing and laying French polish complete or new wood surface Item-7, Page 71	945.00	sft.	38.42	36,306.90
t f f	ALUMINIUM DOORS / WINDOWS / VIENTILATORS Providing and fixing 2mm sectional thickness IC 1 mm wide of approved color aluminum the cors/windows/ventilators including 5mm the chapproved glass fixed to concrete or misonry surfaces by means of plastic fisher olings, screws for windows and expansion bolt for door etc. inclusive but not limited to hinges, Matex Japan rollers, sliding lock having press buttons, handles, stays, PVC glazing gasket, raulking compound etc., complete as per limitings and as directed by the Engineer Door	231.00	sft.	1,507.66	348,269.46

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
j	i. Window partially fixed and partially sliding with out fly screen Items-83, 84 & 85, Page 108	3,152.00	sft.	1,449.69	4,569,422.88
ltem-2	ROOF TREATMENT second class tile roofing consisting of 4" earth and 1" mud plaster with gobrileeping over 1/2" thick cement plaster 1:6 with 34 Lbs of	ļ			
i	hot bitumen coating sand blinded ,provided over one layer of 12" x 6" x 2" tiles laid in 1:6 inortar including 1:2 cement pointing under neath of tiles complete including curing etc. On Roof		% sft	7,607.25	1,431,684.45
Item.26	Item-2, Page 33 POLYTHENE SHEET			i	-,,
	I roviding and laying under floors or where required black low density flexible polythene sheet of single thickness not less than 0.46mm and weighing approximately 0.48 KG per SQ.M or in two layers having matching weight including the side and end laps of 4" width turning 4" on walls and sealing all the joints with masking tape etc., complete as per drawings, specifications and as directed by the Engineer				
	On Top Roof	19,515.00	% sft	364,00	71,034.60
Item-27	Item-38, Page 44 DAMP PROOF COURSE (2" thick) (S.R) 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) Item 28(b) Page-19	1,840.00	% sft	3,912.85	71,996.44
Item-28	Providing and fixing approved quality mortice lock. Page 57, Item 21	59.00	each	1,786.13	105,381.67
Item-29	Priming coat of chalk distemper. Item-23, Page 53	96,771.00	%sft	442.75	428,453.60
	Two coats of Bitumen laid hot using 34 lbs for, % Sft over roof and blinded with sand at one Cft P% Sft. Item 13- Page 35	16,054.00	%sft	1,887.40	303,003.20
	TOTAL				21,660,554.74
	% LESS ON SCHEDULE RATES TOTAL FOR SCHEDULE ITEMS				
	Civil Work Steel				
Item-31	STEEL REINFORCEMENT Fabrication of mild steel reinforcement for				
	ce nent concrete including cutting, bending,				†
	aying in position, making joints fastenings,	ł			
ļi	ncluding cost of binding wire also includes				[
[1	removal of rust from Tor bars.	1		1	1

Civil Works (Schedule Items)

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
	i)Ground Floor		 		
	Jsing Tor bar	2,664.0	per Cwt	5001.7	13,324,528.80
	i) 1st Floor		1		, , , , , , , , , , , , , , , , , , , ,
	Jsing Tor bar	1,785.0	per Cwt	5013.8	8,949,633.00
	Item 8(a) page-17 TOTAL	<u> </u>			
	% below/above ON SCHEDULE RATES				22,274,161.80
	TOTAL FOR SCHEDULE ITEMS		┼╾╌╾┤	-	
	REINFORCED CEMENT CONCRETE (S.R Cemer		\vdash		
Item-31	Reinforced cement concrete (1:2:4) using		1 1		
	sulphate resistant cement type (v) or more				ĺ
1	rich to provide 6"x12" cylinder strength of				
	3000 psi at 28 days age (equivalent cube				
]:	strength = 3750 psi) including all labour and				
	naterial except the cost of steel reinforecment			İ	
Į.	and its labour for bending and binding which				
},	will be paid separately. This rate also includes				
-	all kinds of forms, moulds, lifting, shuttering,				1
],	curing, rendering and finishing exposed]		
ļ:	surface including screening and washing of			i	1
	s:one aggregate.				
	Footing	8,870	per cft	337	2,989,190
	ii) Tie Beam	2,689	per cft	337	906,193
أ	ii) Grade Slab	5,860	per cft	337	1,974,820
[,	Item 6(a)(l) Page-17			ļ	
tem-32	REINFORCED CEMENT CONCRETE (S.R Cemen Reinforced cement concrete (1:1½:3) using	rt)			[
is is	sulphate resistant cement type (v) or more	,	ł		
	rich to provide 6"x12" cylinder strength of			ľ	}
\int_{A}^{2}	1000 psi at 28 days age (equivalent cube				
s	strength = 4500 psi) including all labour and	1		1	
	r aterial except the cost of steel reinforecment				
	and its labour for bending and binding which	1	<u> </u>	1	
	will be paid separately. This rate also includes			ĺ	ŀ
a	ll kinds of forms, moulds, lifting, shuttering,				
c c	uring, rendering and finishing exposed	İ		ı]
s	rface including screening and washing of				
	tone aggregate.	ŀ	Ī	ļ	
	Column upto plinth	977		240	
)R.C.C Wall		per cft per cft	349	340,973
1	Item 6(a)(II) Page-17	136	percit	349	48,162
tem-33 <u>R</u>	EINFORCED CEMENT CONCRETE (S R				
<u>]C</u>	rment)	ł	Ī		
R	einforced cement concrete (1:1½:3) or				
m	ore rich to provide 6"x12" cylinder strength	1	1		
et	f 4000 psi at 28 days age (equivalent cube	ĺ			
m	trength = 4500 psi) including all labour and interial except the cost of steel reinforecment				
lar	nd its labour for bending and binding which	ł		1	ļ
w	ill be paid separately. This rate also includes				
al	kinds of forms, moulds, lifting, shuttering,	ļ	1		
cu	ring, rendering and finishing exposed				1
su	rface including screening and washing of	ļ	ļ		
	c ne aggregate.		- 1		,

Civil Work: (Schedule Items)

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
	i) Ground Floor		 -		
	a) Columns	3,515	per cft	349	1 226 725
	o) Beams	5,480	per cft	349	1,226,735
	:) Slabs	9,682	per cft	349	1,912,520
	d) Lintels	611	per cft	349	3,379,018
	e) Stairs	242	per cft	349	213,239
	i) Parapet	408	per cft	349	84,458
	g) Ramp	184	per cft	349	142,392
	h) Planter	300	per cft	349	64,216
	i) Wall	449	per cft	349	104,700
	Item 6(a)(II) Page-17	777	per cit	349	156,701
	ii) First Floor]		
	¿) Columns	2,508	per cft	361.1	004 400
	h) Beams	6,179	1 ⁻ 1		905,639
	c) Slabs	9,096	per cft	361.1	2,231,237
	c) Lintels	609	per cft	361.1	3,284,566
	e) Parapet	1,720	per cft	361.1	219,910
	f Wall	_	per cft	361.1	621,092
ľ	Item 6(a)(II) Page-17	615	per cft	349	214,635
	TOTAL				21,020,395.20
	At par				
	TOTAL FOR SCHEDULE ITEMS				-

TELECOMMUNICATION ENGINEERING DEPARTMENT

Sr. No.	Description				
		Qty.	Unit	Rate (Rs.)	Amount
1	Porcelain Floor Tiles		++	(RS.)	(Rs.)
	Providing and laying imported/local matt finish				
	Porcelain tile in size 16"x16" of approved make, colour.		1 1	1	
	and shade with patches/borders pattern, laid on cement				
	paste having addition of tile bond at 15% by weight of		1 1	İ	
	cement laid over 1" thick 1:3 cement sand base mortor.				
	over existing PCC 1:2:4 (cost excluded) complete as per]]	i	
	detail shown on the drawing, specifications, and as		1 1		
	directed by the Engineer				
	San e as above but 16"x16" size at any floor	34,360	sft.		
	Porcelain Skirting Tiles				
	Providing and fixing of imported/local porcelain		1 1	ľ	
	skirting 4"high and 16" lenght in size of approved				
	male,colour and shade fixed with cement paste having				
	add tion of tile bond at 15% by wieght of cement and		1 1		
	filling the joints with neat white cement slurry with				
	mat hing colour pigment including 3/4" thick base			ĺ	
- 1	plaster of cement sand (1:4) with curing and cleaning				
	etc, complete as shown on the drawing, specifications			ļ	
	and as directed by the Engineer.	5,501	rft.		
	Lashella Bouticsena Cream Colour Marble Tiles				
	Providing and laying Lasbella Boutescena		1 1		
Ī	Cream/equivalent (without streak)colour marble as per				
	detail shown on the drawing counters / stair steps steps			ļ	
	including landing and risers set over and including				
	average 1" thick (1:3)CSM with cement slurry and			·]	
]	grouting the joint with neat white cement mixed with	1	' 1		
	colour pigment to match the marble colour including curing, grinding and chemical polishing etc, complete as				
	per specifications, drawings and as directed by the	ļ	1	f	
	Engineer.				
	A) Stairs			ļ	
	On Treads with bull nozing 3/4" thick		l		
1	i) size 4' to 6'x12" to 15"	127	sft.		
	ii) size 3' to 5' x12" to 15"	145	sft.	1	
Į	B) Fisers	113	5. t.		
	i) size 4' - 6' x0-6" 3/4" thick for stair steps	45	sft.	1	
	ii) size3' - 5' x0-6" 3/4" thick for stair steps	38	sft.		
1	O) Marble skirting 1/2" think, 4" high	355	rft]	
]F	(3/4" thick bull nozed)				
ſ	i) size 5' to 6' x 3' wide	178	sft.		
]F) Narble on Cabinets/vanity (3/4" thick bull nozed)	}		1	
	i) size 12"x 12"	663	sft.		
		1	J	(

Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
4	Hydraulic Door Closer		 	(10.)	(N3.)
j	Providing and fixing Japan made locally available New				
	Star Japan made hydraulic door closer to wood or				
	aluminium door etc., complete as per drawings,				
	spe lifications and as directed by the Engineer	59	Nos.		
	Carpentry and Joinery				
а	Providing and laying single action solid core flush door				
	shu ter with commercial ply 3mm thick both sides,				
	mild steel (galvanized) 20 guage size 2"x6" door frame				
	fixe i with hold fasts with approved quality steel fittings				
	and double action hinges concrete (1:2:4) and cement				
	sand mortar (1:6) filled in door frame inlouding 3 coats of paint of approved quality, complete in all respect.	4.00=	1 . 1		
ь	Providing and fixing first class deodar wood 1-1/2" thick	1,827	sft.		
٦	pan-sled shutters with 4" wide stile, bottom rail 6" side				
	and top and lock rail 4" wide and 20 guage 2"x6" GI				
İ	mile steel moulded sheet frame and fixing in position				
	with concrete or CSM filling in frame including 2"x5/8"				
- [,	and 5/8"x5/8" deodar wood architrave beading at wall				
	frame joints on both sides, complete with panel of 3/4"				
	deodar wood plank and deodar wood stopper 1/2" x2"(
	excluding matt finish enamel paint), approved iron				
]]	ninges, door stoppers, CP brass fittings, handles,				
[approved quality lock. Complete as per drawings,				
_	specifications and as directed by the Engineer	696	sft.		
	Stai: Case Railing				
[Providing making and fixing 3'-0" high from the centre				
	of tread Stainless Steel staircase railing consisting of 1-			i	
	1/2" dia 14SWG stainless steel balustrade screwed down		ľ		
ı,	to base plate and 1/2" dia pipes crossingn horizontally				
];	through balustrade as shown on the drawing including 2. 1/2" dia stainless steel pipe hand rail welded to				
li.	palustrade including base plate, rugs and S.S cover plate	1	- 1		
	3" dia etc, complete as per drawings as further directed				
ŀ	by the Engineer.	138	sft.		
	Stair Case Wall Bracket Railing (Type-II)	130	314	İ	
I	Providing making and fixing stair case wall bracket				
r	ailing consisting of 38 mm x 200mm solid deodar wood				
ď	lecocative hand rail having grooves on either sides fixed			1	
Įv	with rough wood block of size 38x75x100mm at 3'-0"				
C	/c f.xed over all, including lacqure polishing. Complete				
a	ll as shown on the drawing and as directed by the	ŀ		ļ	
E	Engineer	77	Rft		
3 1	line ral fiber acoustical tile false ceiling				
1	5 mm minimum thick Revealed 2'x2' mineral fiber			}	
a	countical false ceiling tile with surface pattern / design/				
ti	exture, OWA Germany Made with adjustable GI hanger				
a	nd imported T Section Frame accessories in approved				
C	olour to exposed surfaces, complete in all respects.				
J		1,802.00	sft.	ĺ	

Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
	San e as above but MS ties @ 3'-0" c/c horizontally @ 1'-6" vertically in cavity wall staggred			·	
	a) Ground Floor	16,103.00	sft.		i
-	Total	<u>-</u>		_	

TECH) E AWAM UNIVERSITY OF ENGINEERING SCIENCE NOLOGY - NAWAB SHAH.		TELECOM	PLUMBING WO COMMUNICATION ENGINEERING DE		
S.No.		QTY.		DATE	AMOUNT (Rs.)	
	PLUMBING WORKS (SCHEDULE ITEMS)			11011	11/3.1	
1	Providing & fixing a squatting type white glazed earthenware W.C. pan with including the cost of flushing Cistern with internal fittings and flush pipe with bends & making requisite number of holes in wall, plinth and floor for pipe connection and making good in cement concrete 1:2:4.			 		
2	a: With 4" dia white glazed earthen ware trap & plastic thumble (item no. 1 chapter-1) Providing & fixing European type white glazed earthenware wash down W.C. pan complete with	10	Each	5,044.60	50,446.00	
ı	and including the cost of white/black-plastic seat (Best quality) and lid with C.P. brass hinges and buffers, 3 gallons white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2" dia. white procelain enamelled flush bend, 3/4" dia and making requisite No. of holes in walls, plinth & floor for pipe connetion and making good in cement concrete 1:2:4 (Foreign quality) (item No.5,					
3	chapter-1) Providing & fixing 24" x 18" lavatory basin in white glazed earthenware complete with and incuding the cost of W.I. Or C.I. Cantilever bracket 6 inches built into wall, painted white in two coats	13	Each	11,470.40	149,115.20	
4	after a primary coat of red lead paint, a pair of 1/2" dia chrome plated pillar taps, 1-1/2" dia rubber plug and chrome plated brass chain, 1-1/4" dia malleable iron or brass, brass unions making requisite number of hole in walls, plinth and floor for pipe connection and making good in cement concrete 1:2:4, standard pattern including earthen ware glazed padestal (Item No.8, chapter-1) Providing and fixing steel sink stainless local make complete with cast iron or wraught iron brackets 6 nches built in wall, 1-1/2" rubber plug chrome plated brass chain 1-1/2" c.p. brass waste, with 1-1/2" PVC waste pipe and making requisite number of holes in wall and plinth and floor for pipe connection and making good in concrete 1:2:4	24	Each	4,253.70	102,088.80	
5 i	10"x20" local make (item No. 19a, chapter-1) Providing and fixing c.p. brass toilet paper holder of standard size with chrome plated brass brackets omplete (superior quality) (item No.2b, chapter-	1	Each	5,052.30	5,052.30	
6 1	'roviding and fixing chrome plated brass towel rail omplete with brackets fixing on wooden cleats Towel rail 24" long.	13	Each	572.00	7,436.00	
7 F	3/4" dia round or square superior quality (item lo. III(b), chapter-2) roviding & fixing 24" x 18" bavelled edge mirror f Belgium glass complete with 1/8" thick ardhoard and on bross screen fixed to	20	Each	1,082.95	21,659.00	
[i]	ardboard and c.p brass screw fixed to wooden Superior quality (item No.4(b)chapter-2)	24	Each	2,047.76	49,146.24	

QUAI) E AWAM UNIVERSITY OF ENGINEERING SCIENCE	ES AND		Pi	LUMBING WORKS		
TECH	NOLOGY - NAWAB SHAH.		TELECOMMUNICATION ENGINEERING DEP				
S.No.		QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)		
	PLUMBING WORKS (SCHEDULE ITEMS)		, and				
8 9	Providing & fixing soap tray earthen with c.p. brass screws etc. complete (item No.5, chapter -2) Supplying & fixing in position 1/2" dia. C.P. bib	24	Each	497.20	11,932.80		
10	cocks standard pattern. (Item No. 2(i)b, chapter-6) Supplying & fixing in position 1/2" dia tee stop of superior quality with C.P. head (item No.12b,	2	Each	150.92	301.84		
11	chapter-6). Providing & fixing handle valves (China). (Item No.	43	Each	889.48	38,247.64		
	i) 1/2" dia (15 mm)	0	Each	200.42			
	ii) 3/4 " dia (20 mm)	13	Each	271.92	3,534.96		
	iii) 1 " dia (25mm)	3	Each	365.42	1,096.26		
	iv) 1-1/4" dia (32mm)	2	Each	475.42	950.84		
	v) 1-1/2" dia. (40 mm)	2	Each	640.42	1,280.84		
	vi) 2" dia (50 mm)	6	Each	1,382.92	8,297.52		
12	vii) 2-1/2" dia (63 mm),(item No4(B)vii., chapter-6 Providing G.I. Pipes, specials and clamps etc., I/c, fixing cutting and fitting complete with and including the cost of breaking through walls and roof, making good etc., painting two coats after cleaning the pipe etc., with white zinc paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet and handling (item No.1, chapter-4)	4	Each	1,225.84	4,903.36		
	i) 3" dia (for rain water disposal)	880	P.Rft	355.27	312,637.60		
13 14	Supplying and fixing pillar cock of superior quality Supply / fixing wash basin mixer of superior	25	Each	795.30	19,882.50		
15	/2 inch dia, Item No. 14(b),Chapter No. 6). Supply / fixing Sink mixer of superior quality with	4	Each	3,179.00	12,716.00		
16	/2 inch dia. Item No. 17,Chapter No. 6). Supply / fixing C.P. Muslim shower with double bib	1	Each	2,745.60	8.00		
	cock and ring pipe etc complete, Item no.19(a), [hapter-6.]	23	Each	3,432.00	78,936.00		
	TOTAL COST OF SCHEDULE ITEMS.				879,669.70		
	PREMIUM % BELOW/ABOVE						
	TOTAL COST OF SCHEDULE ITEMS CARRIED TO SUMMARY						

QUAI	E AWAM UNIVERSITY OF ENGINEERING SCIENCE	S AND			PLUMBING WORKS
TECH	NOLOGY - NAWAB SHAH.		ELECOMM		GINEERING DEPTT.
S.No.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
	PLUMBING WORKS (SCHEDULE ITEMS)	·		(Rs.)	(Rs.)
	EXTERNAL WORKS (SCHEDULE ITEMS) DRAINAGE SYSTEM	<u>, </u>			·
1	Excavation in pipe line in trenches and pits in hard soil.	4500	%o Cft	7.00	
2	Excavation in pipe line in trenches and pits in			3.90	17,550.00
3	gravity soil. Providing and laying P.V.C. pipe class 'B' with collar.	9300	%o Cft	4.20	39,060.00
	Make DADEX< POPULER or Eq. i) Dia 150 mm	455	P.Rft	262.00	119,210.00
	ii) Dia 200 mm	925	P.Rft	402.00	371,850.00
4	Construction manhole or inspection chamber for the required dia of circular sewer of 3'-6" depth with walls of B.B. in cement mortar 1:3 and 1:3 cement plastered 1/2" thick inside of walls and 1" thick over benching and channels including fixing C.I. manhole cover with frame of clear opening 1-				
	1/2" x 1-1/2" of 1.75 Cwt embedded in plain C.C. 1:2:4 and fixing 1" dia M.S. steps 6" wide projecting 4" from the face of wall at 1" C/C duly painted etc. complete as per specification and drawing No. D-P/1 of Public Health Circle, Southern Zone.				5
) Internal dia of Sewer 100 mm to 150mm and				
5	internal size of Chamber 2'-0" x 2'-0" or Dia 2'-0' il Construction of Gully traps of 12"x12" internal size and required depth of max 18" with walls of in tement mortar 1:3 and 1:3 cement plastered 1/2" hick inside of walls including fixing of C.l. Cover	35	Each	14,748.00	516,180.00
	and frame.	11	Each	1,358.17	14,939.87
	TOTAL COST OF SCHEDULE ITEMS.				1,078,789.87
	REMIUM % BELOW/ABOVE			(-)	
	TOTAL COST OF SCHEDULE ITEMS CARRIED TO SUMMARY				

) E AWAM UNIVERSITY OF ENGINEERING SCIENC NOLOGY - NAWAB SHAH.		FLECOMM		PLUMBING WORKS
S.No.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
	PLUMBING WORKS (SCHEDULE ITEMS)	-	 	(Rs.)	(Rs.)

ı	TECHNONIC WORKS (SCHEDULE ITEMS)	1				
	PLUMBING WORKS (NON SCHEDULE ITEMS)		-,		<u>, </u>	
1	Providing and installation of P.P.R.C. Pipes, fitting	_]				
-	specials and clamps etc., I/c, fixing cutting and	S!	1			
	fitting complete with and including the cost o	٦ -	ĺ	1		
	breaking through walls and roof, making good etc.	1				
ĺ.	flushing and cleaning the pipe etc., and testing	" ~		1	İ	- 1
ĺ	with water to a pressure head of 200 feet. Make	5				
	"VESBO, COSMOPLAST, DIZAYN or EQ.) onfirming	-			1	
]	to BSS 4991,DIN 8078.		ĺ	1		ł
l	i) O.Dia 20 mm	210	P.Rft]	
	ii) O.Dia 25 mm	165	P.Rft		•	ı
l	iii) O.Dia 32 mm	195				Į
	iv) O.Dia 40 mm		P.Rft			
	v) 0.Dia 50 mm	255	P.Rft			i
1	vi) 0.Dia 63 mm	130	P.Rft			-
ľ		135	P.Rft		1	
	vii) O.Dia 70 mm	0	P.Rft	İ		ı
2	viii) O.Dia 90 mm Providing and installation of u PVC drainage pipes	0	P.Rft			1
۔ ا	and fittings confirming to B\$ 4515, push fit rubber		1	1		- 1
	ring joint or solvent jointing system, including					- 1
	cutting in floors and walls. Testing at 8 feet of	ĺ			1	
	water head for 24 hours. (Make. Hepworth, Dadex,		1	1		- 1
	Ferrain SDP, or Eq.) Dia 100 mm or 110 mm					-
	i) Dia 70 mm or 110 mm	450 570	P.Rft		1	
	ii) Dia 50 mm	140	P.Rft P.Rft	1		ı
3	² roviding and fixing of floor gully, having 50mm to	ļ				
	75 mm water seal and with cleaning eye, 150mm x				1	- 1
	150 mm stain less steel top grating (Tile) confirming to BS 4515 (Make HEPWORTH,			İ		- 1
	DADEX.TERRINE SDP or Eq.) 3-inlets of Dia 50 mm					ı
	and 1-outlet of Dia 70 mm or 75 mm.	48	Each	1		-1
4	Providing & fixing plastic shelf with rawl plug and) bucii			
_	." long C.P. brass screws. (Master make).	24	Each		1	
5	Providing & fixing uPVC pipe for wash basin drain			•		1
6	1) 3" dia.	85	rft.			-
Ü	Providing and fixing C.I. Cleanouts with sunk type C.P. brass cover plate fixed with screw caps			ļ		
	including cost of making requisite number of hole					1
	in walls, plinth and floor for pipe connection and					ı
	restoring damaged surfaces to original condition.		<u> </u>			
	[ɛ] 3" dia. [35	Each			
7	t) 4" dia	0	Each		1	
,	Froviding and fixing 24 SWG C.P copper connection 18" x 3/8" with two C.P. brass nuts, etc., complete					
	(Asia code No. 329)	52	Each			
8	Froviding and installing of c.p. bottle trap as					
	manufactured by Master /Asia	26	Each			
			'	ı		•

QUAID E AWAM UNIVERSITY OF ENGINEERING SCIENCES AND TECHN OLOGY - NAWAB SHAH.			PLUMBING WORKS TELECOMMUNICATION ENGINEERING DEPTT.				
S.No.	DESCRIPTION	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)		
	PLUMBING WORKS (SCHEDULE ITEMS)				113.7		
	manholes with with 12' x 12' x 1 M. S grating, Inside and outside plaster, geysers alon with all accessories. Capacity=6-	0	Each				
	Gallons, Similer to "SINGER / VENUS"	4	Each				
	TOTAL COST OF NON-SCHEDULE ITEMS.						
	PREMIUM %BELOW/ABOVE	·-		···			
	TOTAL COST OF SCHEDULE ITEMS CARRIED TO SUMMARY	_					

CONSULTANT

QUAID E AWAM UNIVERSITY OF ENGINEERING SCIENCES AND TECHNOLOGY NAWABSHAH CARTAGE OF MATERIAL AND ESCALATION (AS PER BASIC SCHEDULE OF RATES - 2012) CONSTRUCTION OF TELECOM ENGINEERING DEPARTMENT

A - CONSUMPTION OF MATERIAL.

TUNITURE IN THE PROPERTY OF TH	THE PRINCE.							
	QUANTITY	UNIT	CEMENT	SAND	BAIRI	STONE	RRICKS	CTEEL
C.C. 1:4:8	7951.00	CFT	763.00	3,816.00		1.717.00	Current	77716
R.C.C. 1:2:4	17419.00	CFT	460.00	1,150.00	2.299.44			
R.C.C. 1:1.5:3	42713.00	CFT	4,911.00	12,277.00	24.554.64			
C.C. 1:3:6	2613.00	CFT	3,627.00		25.670.76			
BRICK WORKS (1:6)	27903.00	CFT	194.00				1 306 408 50	
BRICK WORKS (1:4)	3483.00	CFT	7,558.00	24.870.00	i		47 020 50	
3/8" C.P (1:6)	96771.00	SFT	269.16	765.31			VC.V2V,17	
1/2" C.P (1:4)	28989.00	SFT	179.73	1.739.00				
STEEL	4449.00	CWT						4449 00
			17961 89	17961 89 57789 31	52524 8A	1717 00	425342000	00.011
			111111	TC:(0)/C	3535TOT	1/1/00	1333429.00	4449.00

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1,967,366	1,932,475 1.585.515	55,175	835,797	268,542	3,867	6,644,869
PER % BAG	PER % CFT	PER % CFT	PER % o NOS.	PER CWT	PER TON	
10953.00	3344 3018.6	3213.46	617.54	60.36	663.00	
BAG @	CFT.@	CFT. @	NOS. @	cwt@	TONS. @	
17961.89	52524.84	1717.00	1353429.00	4449.00	5.833	
CEMENT	BAJRI / CRUSH	STONE	BRICKS	STEEL	BITUMAN	

C. DIFFERENCE OF COST OF MATERIAL

33,361	33,361
Per Bag	TOTAL:
10.00	
BAG @	
18534.00	
difference Cost of S.R Cement	

Note: All rates have been adopted from "BASIC SCHEDULE OF RATES - 2011"

Bill of Quantities for Telecommunication Department (External Development)

Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
1	Excavation in foundation of building, bridges and		1 —	(10.)	(1/21)
	other structures including debelling dressing			' [
	refilling around structure with excavated earthw		1		
	ater and remming lead upto 5 ft.			İ	
	b) in oridnary soil	1,555.00	cft.	3.17	4,929.35
2	Ite 18-b, Page 4		[]		
2	Filling, watering and ramming earth under floor				
	with new earth excavated fromoutsiee lead upto one thain and lift upto 5 feet				
	Item-22, Page 4	655.00	cft.	3.63	2,377.65
3	Cement concrete plain including placing compacting.				
	f nish and curing, complete (including screening and				
	v/ashing of stone aggregate without shuttering		[]		
	i 1:4:8 under floor and in foundation	1,587.00	cft.	112.88	179,140.56
	Item-5, Page 16				27 7,2 10.50
4	Facca brick work in foundation and plinth in cement			ł	
	s and mortar including curing complete				
ŀ	(2) 1:6	1,708.00	cft.	119.48	204,071.84
5	Item-4 (i) (e), Page 20 SAND FILLING			ļ	
- 1	Sind filling under floor foot path /plinth protection				
ĺ	and where required including laying, levelling,				
	dressing compacting and complete		ľ	İ	
	under Plinth Protection and floor	836.00	cft.	11.41	9,538.76
i	Item-29, Page 26			11.11	2,330.70
	PAVING BLOCKS			Í	
	P oviding and fixing cement paving blocks flooring				
- 1	niving size of 197x97x60 (mm) of]	
ľ	city/qudda/cobble shape with pigment and having		ĺ		
l.	strenght b/w 5000 psi to 8500 psi filling the joints				
	with hill sand and laying specified manner /pattern		ļ	ŀ	
ľ	and design etc. (over 2" sand cushion, complete	3,344.00	sft,	223.97	748,955.68
8 1	Item-72, Page 49	ł			
ון ס	PLAINT CEMENT SAND WALL PLASTERING Providing and applying 3/4" thick plaster at any		1	ľ	
f	loor or at any height using approved quality sand				
	preferably machine mixed mortar, including all	ĺ		J	
ŀ	ends, corners, recesses including scaffolding and		ĺ	ĺ	
Jr	scking the concrete surfaces, arching the masonry	J			
j.	onts and providing 8" wide GI wire mesh of 17	·		ł	
S	WG 1"x1" size fixed with GI staples on masonry				
- ji	oints, concrete joints. All plaster to be finishes				
S	mooth with steel float in true to level, line and		1	1	
ع درا	lumb and properly cured, complete as per	J			
] a	rawings, specifications and as directed by the rigineer.			ļ	
	-				
S	x:ernal Surfaces 1/2" thick 1:4 CSM on walls/up	1		J	
s	tend/down stand beam projection.				
1-	Tolerand beam projection.	ł		ļ	

Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
9	a) Ground Floor Chapter No.9, Page 52 ANTI TERMITE TREATMENT Providing Ani-termmite treatment by spraying / sprinkling / spreading Neptachlar 0.5% Emulsion as in ever all pre-construction treatment in slab type construction under the slab and along attache perches or entrances etc. complete as per directions of Engineer Incharge Page 109, Item No. 92	1,970.00 18,815.00	%sft.	2,283.93 4.16	44,993.42 78,270.40
	Sub Total				1,272,277.66
_	PREMIUM %BELOW/ABOVE				,_,
	Total				-

Summary of Cost for Chemical Department

SR. NO	- · · · · · · · · · · · · · · · · · · ·		
1	Schedule Civil Works except steel and RCC	Rs.	
2	Schedule Civil Works steel		
3	Schedule Civil Works except RCC		
4	Non schedule Architectural Works		
	Total-1	Rs.	
	Schedule Plumbing Works		
1	Schedule Plumbing Works SI	Rs.	
2	Non Schedule Plumbing Works		
	Total-2	Rs.	
	Different cost of SR cement & Cartage		
1	Cartage	Rs.	6,468,897.30
2	Different cost of SR cement		165,470.00
	Total-3	Rs.	6,634,367.30
	Total -1+2+3	Rs.	
	External development		
1	Drainage Work	Rs.	
2	External development	Rs.	
	Total- 4	·	
	Grand Total	Rs.	

Project Director

Bill of Quantities for Chemical Engineering Department

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
Item-01	EXCAVATION FOR FOUNDATION				· · ·
	Eccavation in foundation of building bridges				
	and other structures including dagbelling,				
	d essing, refilling around structure with				
	excavated earth watering and ramming lead				
	up to 5 ft.				
	i) In ordinary soil.	35,065.00	%0 cft	3176.25	111,375.21
Itam-02	Item 18(b) Page-4 EARTH FILLING				
	i) Filling, watering and ramming earth in floor				
	with surplus earth from foundation lead up to				
	one chain and lift up to 5 ft.	16,033.00	%0 cft	1512.5	24,249.91
	Item 21 Page-4	10,000.00	700 010	101210	21,217.71
Item-03	EARTH FILLING				
	i) Filling, watering and ramming earth in floor				
	with new earth excavated from our side lead				
	up to one chain and lift up to 5 ft.		%0 cft	3630.00	-
į	Item 21 Page-4				
Item-04	P.C.C (1:4:8)				
	Coment 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).	7,951	% cft	11288.75	897,568.51
	Item 5(i) Page-16				•
	P.C.C (1:3:6)				
	Cement concrete plain (1:3:6) using sulphate				
	resistant cement type (v) including placing,				
	cc mpacting, finishing, curing, complete,				
	(Including screening and washing of stone				
	аį:gregate without shuttering).	2,613	% cft	12595	329,107.35
	Item 5(h) Page-16				
Item-06	CEMENT PLASTER UPTO PLINTH				
	Cement Neru plaster 1:2 using sulphate				
	resistant cement type (v)	7,890	% sft	1438.46	113,494
	Item 5(b) Page-51				
	B RICK MASONRY IN FOUNDATION &				
	P) JNTH				
	Pacca brick work in foundation & plinth in				
	cement sand mortar 1:6 using sulphate			:	
	resistant cement type (v).	4,877	% cft	11948.36	582,721.52
Itom 00	Item 4(e) Page-25				
	GR <u>ADED STONE</u> Dry rammed brick or stone ballast 1½" to 2"	=			
		5,847	% cft	3327.5	194,558.93
Item-09	Item (2) Page-15 ORNAMENTAL JALI				
	Providing and fixing ornamental cement	1 450	non se	336.03	272 225 2
	ja'i 2" thick (1:2:4) with out steel.	1,652	per sft	226.02	373,385.04
ľ	Item 11 Page-17				
ı	rem 11 Lage-1/		 		I

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
Item-10	C I MAN HOLE COVER AND FRAME			-	
	P oviding and fixing C.I Manhole Cover with				
	frame i/c cost of material.	2	CWT	6985	13,970.00
	Item (j) 1 Page-35		l		
Item-11	BRICK MASONRY IN SUPER STRUCTURE		:		
	(ABOVE PLINTH LEVEL) Providing and laying approved first class burnt				I
	brick masonry in super structure walls at any				
	height and any floor, laid and jointed with	I			
ł	coment and approved source sand machine				
	mixed mortar, masonry to be laid in course	I			
	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				
	st ecifications, including P/F specified				
	anchorage with concrete members and				
1	directed by the Engineer				
	Ir ternal Walls				
i.	Ground Floor (Item No. 5. (i e) & 6 ii (where				
	rs quired)				
	4 1/2""thick and above internal/external walls				
	in (1:4) CSM	1,190.00	cft.	132.27	157,401.30
	9' thick and above internal/external walls in (1:6) CSM				
		14,154.00	cft.	126.74	1,793,877.96
ji	Ground Floor (Item No. 5, (i e) & 6 ii (where required)				
"	4 1/2""thick and above internal/external walls				
	in (1:4) CSM	1,143.00	cft.	138.00	157,734.00
	9' thick and above internal/external walls in		CIC.	130.00	137,734.00
	(1:6) CSM	13,749.00	cft.	131.12	1,802,768.88
iii) Mumty / roof level/parapet	15,,, 12,00	C14	131.12	1,002,700.00
	4 1/2""thick and above internal/external walls				
	in (1:4) CSM	1,150.00	cft.	143.73	165,289.50
	Item-5, Page 21				
Item-12	GLAZED CERAMIC TILES DADO				
	(MASTER/EQUIVALNET MAKE)				
	Providing and fixing glazed ceramic tiles of				
	size as below of approved make and texture				
	shade in dado set over cement slurry and				
	fil ing the joints with neat white cement with				ļ
	matching pigments including 3/4" thick base				ŀ
	plaster of cement, sand (1:4) with curing and				
	cleaning etc., complete as per drawings,				
	specifications and as directed by the Engineer				
i.	Ground Floor + First Floor		Ī		
	b) 12"x18"/any size approved by engineer	2,865.00	sft.	282.97	810,709.05
	Item-38, Page 45				

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
i. Item-14	NON SKID CERAMIC FLOORINGTILE Providing and laying non skid ceramic tiles 12 "x12" in floor of approved shade with cement slurry laid in slope towards floor drain and including filling the joints in neat white pigment to match the color of tiles in floors etick, complete as per drawings, specifications and as directed by the Engineer Ground Floor + First Floor Item-25, Page 43 Plain Cement Sand Wall Plastering, Chapter No.9, Page 52 Providing and applying 3/4" thick plaster at any floor or at any height using approved quality sand preferably machine mixed mortar, including all bends, corners, recesses including scaffolding and hacking the concrete surfaces, arching the masonry joints and providing 8" wide GI wire mesh of 17 SWG 1"x1" size fixed with GI staples on masonry joints, concrete joints. All plaster to be finishes smooth with steel float in true to level, line and plumb and properly cured, complete as per drawings, specifications and as directed by the Engineer. Ground Floor, Item No. 13 c Internal walls/columns plaster 3/8" thick in 1:6 CSM	1,890.00	sft.	277.47	524,418.30
ii.	a) Ground Floor b) 1st floor c) / Mumty Ground Floor + First Floor, Item No. 11 (c) External Surfaces 1/2" thick 1:4 CSM on	46,288.00 46,918.00	%sft. %sft. %sft.	2,122.72 2,262.72 2,423.93	982,564.63 1,061,622.97 -
	walls/up stand/down stand beam projection. a) Ground Floor	0.244.00	0/ -6-	2 202 02	242.554.52
	b)1st floor	9,311.00 7,867.00	%sft. %sft.	2,283.93 2,262.72	212,656.72 178,008.18
	c) Parapet / Mumty	9,548.00	%sft.	2,423.93	231,436.84
	Chapter No. 9, Page 52	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 2	_,5.,0	202,100101
Item-15	Distempering Three Coats	93,206.00	sft.	10.79	1,005,692.74
T4	Item-24 (c), Page 53				
item-16	Preparing surface and painting with weather cost including rubbing the surface, filling and painting with weather coat of approved make, complete (new surface) three coats				
	a) Plaster surface external	26,726.00	sft.	25.68	686,323.68
	b) Cement concrete jali	2,410.00	sft.	25.68	61,888.80
Itom 47	Item - 38 A+B, Page 56				
item-17	ce nent pointing struck joints on walls	115.00	%sft.	1,287.44	1,480.56

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
item 10	Item-19 (a), Page 53	,			
116111-10	1 1/2 " thick mosaic flooring consisting of 1/2' mosaic topping of one part of grey cement to				
	two part of marble chips laid over 1 " thick				
	flooring of 1:2:4 cement concrete including		i		
	rubbingand polishing complete	95.00	%sft.	9,258.67	8,795.74
	Item-22, Page 42			,	0,,,,,,,,,,
Item-19	Ektra labor rate for making grooves of 1"x1/4"	1			
	o 3/4" x 1/2" plastered surface with true		ĺ		
	edges both vertically and horizontally with		İ		
	uniform depth and with groove base smoothly				
	fi ished etc. complete as per instruction of				
	E igineer Incharge	4,890.00	rft.	7.71	37,701.90
	Item-34, Page 55				0,,,02,50
Item-20	Extra labor for making cement plaster				
	pattas/band where required width not less	1			
	th an 6" width fine finishing as directed	1,442.00	rft.	19.25	27,758.50
, a	Item-35, Page 55				
	Providing and laying deodar wood wardrobe				
	including boxing with back shelves shutters of				
	MDF 3/4" thick both side laminated with			İ	
	drawers and brass fittings such as handles				
	piano hinges locking arrangement rod, shoe				
	rack, complete as per approved design (except		_		
	paint / polish)	415.00	sft.	2,364.65	981,329.75
Itam-22	Item-24, Page 61		İ		
	Providing and applying three coats of enamel			ļ	
	painting (Mat finish/all rounder including	1			
	cleaning, approved make premixed putty				·
I	filling, sand papering and a coat of primer				
	cc mplete as per manufacturers standards and				
	as directed by the Engineer		-		
l.	On wood surface /steel chowket three coats	1,560.00	sft.	21.16	33,009.60
Itam no	Item-5 (c) (l) & (II), Page 70				
	Providing and laying French polish complete or new wood surface				_
	Item-7, Page 71	850.00	sft.	38.42	32,657.00
Item-24	ALUMINIUM DOORS / WINDOWS /				
	VENTILATORS				
	Providing and fixing 2mm sectional thickness				
	1(1 mm wide of approved color aluminum				
[dcors/windows/ventilators including 5mm				
	thick approved glass fixed to concrete or				
	masonry surfaces by means of plastic fisher				
1	plags, screws for windows and expansion bolt				
	fo door etc. inclusive but not limited to hinges,		J		
	Matex Japan rollers, sliding lock having press		j		
	buttons, handles, stays, PVC glazing gasket,				
	calking compound etc., complete as per			1	
	drawings and as directed by the Engineer	224.55	_	4.505	
1.	Door	231.00	sft.	1,507.66	348,269.46

S.No	DESCRIPTION	QTY,	UNIT	RATE(RS)	AMOUNT(RS)
ii.	Window partially fixed and partially sliding with out fly screen Items-83, 84 & 85, Page 108	2,912.00	sft.	1,449.69	4,221,497.28
Item-25	ROOF TREATMENT				
	second class tile roofing consisting of 4" earth				
	and 1" mud plaster with gobrileeping over				
	1/2" thick cement plaster 1:6 with 34 Lbs .of				
	hot bitumen coating sand blinded ,provided				
	over one layer of 12" x 6" x 2" tiles laid in 1:6		ļ		
	mortar including 1:2 cement pointing under				
	· · · · · · · · · · · · · · · · · · ·				
	neath of tiles complete including curing etc.				
i.	Or Roof	17,210.00	% sft	7,607.25	1,309,207.73
	Item-2, Page 33				
Item-26	POLYTHENE SHEET				
	Providing and laying under floors or where				
	required black low density flexible polythene sheet of single thickness not less than 0.46mm		i		
	and weighing approximately 0.48 KG per SQ.M			Į.	
	or in two layers having matching weight				
	including the side and end laps of 4" width				
	turning 4" on walls and sealing all the joints				
	with masking tape etc., complete as per				
	drawings, specifications and as directed by the				
	Er gineer	40.045.00	a, 0		25 574 40
	Or Top Roof	18,015.00	% sft	364.00	65,574.60
Itom 27	Item-38, Page 44 DAMP PROOF COURSE (2" thick) (S.R.				
itein-27	Damp proof course with cement sand &				
	shingle/crush concrete (1:2:4) using sulphate				
	resistant cement type (v) including 2 coats of				
	lasphaltic mixture. (Over Walls)	1,855.00	% sft	3,912.85	72,583.37
	Item 28(b) Page-19	1,055.00	70 310	3,712.03	72,303.37
Item-28	Providing and fixing approved quality mortice				
	lo :k.	57.00	each	1,786.13	101,809.41
	Page 57, Item 21				
Item-29	Priming coat of chalk distemper.	93,206.00	%sft	442.75	412,669.57
	Item-23, Page 53				
Item-30	Two coats of Bitumen laid hot using 34 lbs for				1
	% Sft over roof and blinded with sand at one				
	Cft P% Sft.	14,995.00	%sft	1,887.40	283,015.63
	Item 13- Page 35				20 410 194 50
	TOTAL				20,410,184.59
	PREMIUM %BELOW/ABOVE TOTAL FOR SCHEDULE ITEMS	-	 		
		- -	1	 	
	Civil Work Steel				
Item-31	S' YEL REINFORCEMENT		I	I	I

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
	Fabrication of mild steel reinforcement for			·	
	cement concrete including cutting, bending,				
	kying in position, making joints fastenings,				
	including cost of binding wire also includes				
	removal of rust from Tor bars,				
	i] Ground Floor				
	Using Tor bar	2,423.0	per Cwt	5001.7	12,119,119.10
	ii} 1st Floor				
	Using Tor bar	1,790.0	per Cwt	5013.8	0 074 707 00
	Item 8(a) page-17	1,7 90.0	per cwu	3013.0	8,974,702.00
	TOTAL		- 		21,093,821.10
	% above/below ON SCHEDULE RATES	.			21,075,021.10
	TOTAL FOR SCHEDULE ITEMS				
	REINFORCED CEMENT CONCRETE (S.R Cemen	ıtì			····
Item-31	Reinforced cement concrete (1:2:4) using				<u> </u>
	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				
	m aterial except the cost of steel reinforecment				
	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.				
	i) Footing	7,721	per cft	337	2,601,977
	ii Tie Beam	2,384	per cft	337	803,408
	ii) Grade Slab	5,390	per cft	337	1,816,430
	ltem 6(a)(l) Page-17				
Th 20	REINFORCED CEMENT CONCRETE (S.R Cemen	tt)			
nem-32	Reinforced cement concrete (1:1½:3) using				
	sulphate resistant cement type (v) or more				
	rich to provide 6"x12" cylinder strength of		ĺĺ		
,	4)00 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. i) Column upto plinth	914	non -6	240	240.00
	ii R.C.C Wall	138	per cft	349 349	318,986
	Item 6(a)(II) Page-17	138	per cft	347	48,162
Item-33	REINFORCED CEMENT CONCRETE (S R				
	Coment)		İ		

S.No	DESCRIPTION	QTY.	UNIT	RATE(RS)	AMOUNT(RS)
	Reinforced cement concrete (1:11/2:3) or				
	n ore rich to provide 6"x12" cylinder strength				
	of 4000 psi at 28 days age (equivalent cube				
	strength = 4500 psi) including all labour and				
	n aterial except the cost of steel reinforecment				
	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.				
	i) Ground Floor				
	a Columns	3,320	per cft	349	1,158,680
	b) Beams	4,887	per cft	349	1,705,563
	c) Slabs	8,870	per cft	349	3,095,630
	d Lintels	598	per cft	349	208,702
	e Stairs	242	per cft	349	84,458
	f) Parapet	200	per cft	349	69,800
	g Ramp	184	per cft	349	64,216
	h! Planter	300	per cft	349	104,700
	i) Wall	449	per cft	349	156,701
	Item 6(a)(II) Page-17				
	ii) First Floor	0 = 00			
	a Columns	2,508	per cft	361.1 361.1	905,639
	c`Slabs	6,179 9,096	per cft		2,231,237
	d Lintels	•	per cft	361.1	3,284,566
	e Parapet	609	per cft	361.1	219,910
	f) Wall	1,720 615	per cft per cft	361.1 349	621,092
	Item 6(a)(II) Page-17	015	per cit	347	214,635
	TOTAL	· · · · · · · · · · · · · · · · · · ·			19,714,491.20
	At par				= -,·, -
	TOTAL FOR SCHEDULE ITEMS				····

CHEMICAL DEPARTMENT QUAID E AWAM UNIVERSITY OF ENGINEERING SCIENCES AND TECHNOLOGY NAWABSHAH

Bill of Quantities for Chemical Engineering Department

	Bill of Quantities for Chemical Engineering Department							
Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)			
1	Porcelain Floor Tiles Providing and laying imported/local matt finish Porcelain tile in size 16"x16" of approved make, colcur, and shade with patches/borders pattern, laid on cement paste having addition of tile bond at 15% by weight of cement laid over 1" thick 1:3 cement sand base mortor, over existing PCC 1:2:4							
	(cost excluded) complete as per detail shown on the drawing, specifications, and as directed by the Eng neer Same as above but 16"x16" size at any floor	31,672	sft.					
2	Porcelain Skirting Tiles Providing and fixing of imported/local porcelain skirting 4"high and 16" lenght in size of approved make, colour and shade fixed with cement paste having addition of tile bond at 15% by wieght of cement and filling the joints with neat white cement slurry with matching colour pigment including 3/4" thick base plaster of cement sand (1:4) with curing and cleaning etc, complete as shown on the drawing, specifications and as directed by the Engineer.		rft.					
3	Lashella Bouticsena Cream Colour Marble Tiles Providing and laying Lashella Boutescena Cream/equivalent (without streak) colour marble as per detail shown on the drawing counters / stair steps steps including landing and risers set over and including average 1" thick (1:3) CSM with cement slurry and grouting the joint with neat while cement mixed with colour pigment to match the marble colour including curing, grinding and chemical polishing etc, complete as per specifications, drawings and as directed by the							
	Engineer. A) Stairs On Treads with bull nozing 3/4" thick i) size 4' to 6'x12" to 15" i) size 3' to 5' x12" to 15"	127 145	sft. sft.					
	B) Risers i) size 4' - 6' x0-6" 3/4" thick for stair steps	45	sft.					
į	ii) size3' - 5' x0-6" 3/4" thick for stair steps D) Marble skirting 1/2" think, 4" high	38 355	sft. rft					

Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
	 E) Marble on Cabinets/vanity (3/4" thick bull noz i) size 5' to 6' x 3' wide F) Marble on Cabinets/vanity (3/4" thick bull nozed) 	180	sft.		
4	i size 12"x 12" Hyd raulic Door Closer	661	sft.		
	Providing and fixing Japan made locally available New Star Japan made hydraulic door closer to wood or aluminium door etc., complete as per drawings, specifications and as directed by the Eng neer	57	Nos.		
I .	Carpentry and Joinery Providing and laying single action solid core flush door shutter with commercial ply 3mm thick both sides, mild steel (galvanized) 20 guage size 2"x6" door frame fixed with hold fasts with approved quality steel fittings and double action hinges concrete (1:2:4) and cement sand mortar (1:6) filled in door frame inlouding 3 coats of paint of approved quality, complete in all respect.	1.757	c		
Ь	Providing and fixing first class deodar wood 1-1/2" thick paneled shutters with 4" wide stile, bottom rail 6" side and top and lock rail 4" wide and 20 guage 2"x6" GI mild steel moulded sheet frame and fixing in position with concrete or CSM fillir g in frame including 2"x5/8" and 5/8"x5/8" deodar wood architrave beading at wall / frame join s on both sides, complete with panel of 3/4" deodar wood plank and deodar wood stopper 1/2" x2"(excluding matt finish enamel paint), approved iron hinges, door stoppers, CP brass fittings, handles, approved quality lock. Complete as per drawings, specifications and as directed by	1,757	sft.		1 5
	the Engineer Stair Case Railing Providing making and fixing 3'-0" high from the centre of tread Stainless Steel staircase railing consisting of 1-1/2"dia 14SWG stainless steel balustrade screwed down to base plate and 1/2" dia pipes crossingn horizontally through balustrade as shown on the drawing including 2-1/2' dia stainless steel pipe hand rail welded to balustrade including base plate, rugs and S.S cover plate: 3" dia etc, complete as per drawings as further directed by the Engineer.	696	sft.		
	an occur by the Engineer.	140	sft.		

Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
7	Stair Case Wall Bracket Railing (Type-II)				-
	Providing making and fixing stair case wall bracket railing consisting of 38 mm x 200mm solid deodar wood decorative hand rail having grooves on either sides fixed with rough wood block of size 38x75x100mm at 3'-0" c/c fixed over all, including lacqure polishing. Complete all as shown on the drawing and as directed by the				
	shown on the drawing and as directed by the Engineer	74	Rft		
8	Mineral fiber acoustical tile false ceiling 15 :nm minimum thick Revealed 2'x2' mineral fibe acoustical false ceiling tile with surface pattern / design/ texture, OWA Germany Made with adjustable GI hanger and imported T Section Frame accessories in approved colour to exposed	,,	Kit		
	surfaces, complete in all respects.	1,805.00	sft.		
9	Same as above but MS ties @ 3'-0" c/c horizontally @ 1'-6" vertically in cavity wall staggred				
	a) (round Floor	16,105.00	sft.		
	Total				

CCH	OLOGY - NAWAB SHAH.	, ,		EERING DEPTT	
S.No.	DESCRIPTION	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	PLUMBING WORKS (SCHEDULE ITEMS)				
1	Providing & fixing a squatting type white glazed				
	3arthenware W.C. pan with including the cost of				
	lushing Cistern with internal fittings and flush				
	sipe with bends & making requisite number of			Į.	
	ioles in wall, plinth and floor for pipe connection				
	and making good in cement concrete 1:2:4. 1: With 4" dia white glazed earthen ware trap &				
	plastic thumble (item no. 1 chapter-1)	10	Each	5,044.60	50,446.00
2	Providing & fixing European type white glazed			,	,
	arthenware wash down W.C. pan complete with				
	and including the cost of white/black-plastic seat				
	Best quality) and lid with C.P. brass hinges and				
	ouffers, 3 gallons white glazed earthenware low				
	evel flushing cistern with siphon fittings, 1-1/2"				
	lia. white procelain enamelled flush bend, 3/4"				
	lia and making requisite No. of holes in walls,				
	olinth & floor for pipe connetion and making				
	good in cement concrete 1:2:4 (Foreign quality)				
	item No.5, chapter-1)	13	Each	11,470.40	149,115.20
3	roviding & fixing 24" x 18" lavatory basin in				
	white glazed earthenware complete with and neuding the cost of W.I. Or C.I. Cantilever				
	ncuding the cost of W.I. Or C.I. Cantilever pracket 6 inches built into wall, painted white in				
	wo coats after a primary coat of red lead paint, a				
	pair of 1/2" dia chrome plated pillar taps, 1-1/2"				
	lia rubber plug and chrome plated brass chain, 1				
	1/4" dia malleable iron or brass, brass unions				
	naking requisite number of hole in walls, plinth				
	and floor for pipe connection and making good				
	n cement concrete 1:2:4, standard pattern				
	ncluding earthen ware glazed padestal (Item				
	No.8, chapter-1)	24	Each	4,253.70	102,088.80
4	Providing and fixing steel sink stainless local				
	nake complete with cast iron or wraught iron				
	prackets 6 inches built in wall, 1-1/2" rubber				
	olug chrome plated brass chain 1-1/2" c.p. brass				
	waste, with 1-1/2" PVC waste pipe and making equisite number of holes in wall and plinth and			ļ	
	loor for pipe connection and making good in				
	concrete 1:2:4 40"x20" local make (item No. 19a,				
	chapter-1)	1	Each	5,052.30	5,052.30
5	Providing and fixing c.p. brass toilet paper	-		=,002.00	5,002.00
	iolder of standard size with chrome plated brass				
	orackets complete (superior quality) (item				
	No.2b, chapter-2)	13	Each	572.00	7,436.00
6	roviding and fixing chrome plated brass towel			.	,
	ail complete with brackets fixing on wooden				
	cleats with 1" long c.p. brass screws.				

	E AWAM UNIVERSITY OF ENGINEERING SCIENG OLOGY - NAWAB SHAH.	CHEMICAL ENGI	UMBING WORKS NEERING DEPTT		
S.No.	DESCRIPTION	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
7	3/4" dia round or square superior quality (item No. III(b), chapter-2) roviding & fixing 24" x 18" bavelled edge nirror of Belgium glass complete with 1/8" thick nardboard and c.p brass screw fixed to wooden	20	Each	1,082.95	21,659.00
8	oleat with glass shelves.) Superior quality (item No.4(b)chapter-2) Providing & fixing soap tray earthen with c.p. Prass screws etc. complete (item No.5, chapter-	24	Each	2,047.76	49,146.24
9	2) Supplying & fixing in position 1/2" dia. C.P. bib cocks standard pattern. (Item No. 2(i)b, chapter-	24	Each	49 7.20	11,932.80
10	5) Supplying & fixing in position 1/2" dia tee stop of superior quality with C.P. head (item No.12b,	2	Each	150.92	301.84
11	:hapter-6). Providing & fixing handle valves (China). (Item	43	Each	889.48	38,247.64
) 1/2" dia (15 mm)	0	Each	200.42	-
	i) 3/4 " dia (20 mm)	13	Each	271.92	3,534.96
	ii) 1 " dia (25mm)	3	Each	365.42	1,096.26
	v) 1-1/4" dia (32mm)	2	Each	475.42	950.84
	7) 1-1/2" dia. (40 mm)	Z	Each	640.42	1,280.84
	√i) 2" dia (50 mm)	6	Each	1,382.92	8,297.52
	7ii) 2-1/2" dia (63 mm),(item No4(B)vii., chapter 5)	4	Each	1,225.84	4,903.36
12	Providing G.I. Pipes, specials and clamps etc., 1/c, ixing cutting and fitting complete with and neluding the cost of breaking through walls and roof, making good etc., painting two coats after cleaning the pipe etc., with white zinc paint with bigment to match the colour of the building and resting with water to a pressure head of 200 feet and handling (item No.1, chapter-4)	·		1,225.01	4,500.30
13) 3" dia (for rain water disposal) Supplying and fixing pillar cock of superior Juality with c.p head etc., complete (item No.18	880	P.Rft	355.27	312,637.60
14), chapter-6). Supply / fixing wash basin mixer of superior quality with C.P. Head.	25	Each	795.30	19,882.50
15	L/2 inch dia. Item No. 14(b), Chapter No. 6). Supply / fixing Sink mixer of superior quality with C.P. Head, Etc.	4	Each	3,179.00	12,716.00
	L/2 inch dia. Item No. 17,Chapter No. 6).	1	Each	2,745.60	8.00

	DE AWAM UNIVERSITY OF ENGINEERING SCIENCE NOLOGY - NAWAB SHAH.	ES AND		PLUMBING WORKS CHEMICAL ENGINEERING DEPTT.		
S.No.	DESCRIPTION	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	
16	Supply / fixing C.P. Muslim shower with double bib cock and ring pipe etc complete, Item					
	10.19(a), Chapter-6.)	23	Each	3,432.00	78,936.00	
	FOTAL COST OF SCHEDULE ITEMS.				879,669.70	
	PREMIUM % BELOW/ABOVE					
	TOTAL COST OF SCHEDULE ITEMS CARRIED TO SUMMARY	•		_		

QUAIL		UMBING WORKS			
TECHI	OLOGY - NAWAB SHAH.			CHEMICAL ENGIN	VEERING DEPTT.
S.No.	DESCRIPTION	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	EXTERNAL WORKS (SCHEDULE ITEMS)				
	DRAINAGE SYSTEM				
1	Excavation in pipe line in trenches and pits in				
	hard soil.	4500	%o Cft	3.90	17,550.00
2	Excavation in pipe line in trenches and pits in				
3	gravity soil.	9300	%o Cft	4.20	39,060.00
٥	Providing and laying P.V.C. pipe class 'B' with collar.				
	Make DADEX< POPULER or Eq.				
) Dia 150 mm	455	P.Rft	262.00	119,210.00
	i) Dia 200 mm	925	P.Rft	402.00	
4	Construction manhole or inspection chamber for	743	r.Kit	402.00	371,850.00
	the required dia of circular sewer of 3'-6" depth				
	with walls of B.B. in cement mortar 1:3 and 1:3				
	gement plastered 1/2" thick inside of walls and				
	1" thick over benching and channels including				
	ixing C.I. manhole cover with frame of clear				
	opening 1-1/2" x 1-1/2" of 1.75 Cwt embedded				
	n plain C.C. 1:2:4 and fixing 1" dia M.S. steps 6"				
	wide projecting 4" from the face of wall at 1" C/C				
	July painted etc. complete as per specification				
	and drawing No. D-P/1 of Public Health Circle,				
	Southern Zone.				
) Internal dia of Sewer 100 mm to 150mm and				
	nternal size of Chamber 2'-0"x2'-0" or Dia 2'-0"	35	Each	14,748.00	516,180,00
5	Construction of Gully traps of 12"x12" internal	35	Laci	14,740.00	510,100.00
_	size and required depth of max 18" with walls of			1	
	n cement mortar 1:3 and 1:3 cement plastered			İ	
	1/2" thick inside of walls including fixing of C.I.				
	Cover and frame.	11	Each	1,358.17	14,939.87
	TOTAL COST OF SCHEDULE ITEMS.				1,078,789.87
	PREMIUM % BELOW/ABOVE			(-)	
	TOTAL COST OF SCHEDULE ITEMS CARRIED				
	TO SUMMARY				

	E AWAM UNIVERSITY OF ENGINEERING SCIENG OLOGY - NAWAB SHAH.	CES AND			LUMBING WORKS SINEERING DEPTT.
S.No.	DESCRIPTION	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	PLUMBING WORKS (NON SCHEDULE ITEMS) Providing and installation of P.P.R.C. Pipes, fittings specials and clamps etc., I/c, fixing cutting and fitting complete with and including	·		•	
	the cost of breaking through walls and roof, making good etc., flushing and cleaning the pipe etc., and testing with water to a pressure head of 200 feet. Make "VESBO, COSMOPLAST, DIZAYN.				
	or EQ.) onfirming to BSS 4991,DIN 8078.				
) O.Dia 20 mm i) O.Dia 25 mm	210 165	P.Rft P.Rft		
	ii) O.Dia 32 mm	195	P.Rft		
	v) O.Dia 40 mm	255	P.Rft		
	7) O.Dia 50 mm	130	P.Rft		
	/i) 0.Dia 63 mm	135	P.Rft		
	/ii) O.Dia 70 mm	0	P.Rft		
2	riii) O.Dia 90 mm Providing and installation of u PVC drainage sipes and fitings confirming to BS 4515, push fit ubber ring joint or solvent jointing system, including cutting in floors and walls. Testing at 8 feet of water head for 24 hours (Make Hepworth, Dadex, Terrain SDP, or Eq.)	0	P.Rft		
) Dia 100 mm or 110 mm	450	P.Rft		
	i) Dia 70 mm or 75 mm	570	P.Rft		
3	ii) Dia 50 mm Providing and fixing of floor gully, having 50mm to 75 mm water seal and with cleaning eye, 150mm x 150mm stain less steel top grating Tile) confirming to BS 4515 (Make HEPWORTH, DADEX, TERRINE SDP or Eq.) 3-inlets of Dia 50 nm and 1-outlet of Dia 70mm or 75 mm		P.Rft		
4	roviding & fixing plastic shelf with rawl plug	48	Each		
5	and 1" long C.P. brass screws. (Master make). Providing & fixing uPVC pipe for wash basin	24	Each		
6) 3" dia. Providing and fixing C.I. Cleanouts with sunk type C.P. brass cover plate fixed with screw caps including cost of making requisite number of tole in walls, plinth and floor for pipe connection and restoring damaged surfaces to original condition.	85	rft.		
	त) 3" dia.	35	Each		
7) 4" dia Providing and fixing 24 SWG C.P copper connection 18" x 3/8" with two C.P. brass nuts, 	0	Each		
	etc., complete (Asia code No. 329)	52	Each		

	DE AWAM UNIVERSITY OF ENGINEERING SCIENCE OLOGY - NAWAB SHAH.	ES AND	•	PLUMBING WORKS CHEMICAL ENGINEERING DEPTT.		
S.No.	DESCRIPTION	QTY.	UNIT	RATE (Rs.)	AMOUNT (Rs.)	
8	Providing and installing of c.p. bottle trap as manufactured by Master /Asia Providing and construction of rain water	26	Each	*		
10	collection manholes with 12' x 12' x 1 MS grating inside and outside Providing and installation of Electric operated	0	Each			
	geysers alon with all accessories. Capacity 6 Gallons, similar to "SINGER / VENUS"	4	Each			
	TOTAL COST OF NON-SCHEDULE ITEMS.					
	PREMIUM % ABOVE/BELOW.			_]	
	TOTAL COST OF SCHEDULE ITEMS CARRIED TO SUMMARY					

CONSULTANT

QUAID E AWAM UNIVERSITY OF ENGINEERING SCIENCES AND TECHNOLOGY NAWABSHAH CARTAGE OF MATERIAL AND ESCALATION (AS PER BASIC SCHEDULE OF RATES - 2012) CONSTRUCTION OF CHEMICAL ENGINEERING DEPARTMENT

A - CONSUMPTION OF MATERIAL.

	QUANTITY	UNIT	CEMENT	SAND	BAIRI	STONE	RRICKS	CTEET
C.C. 1:4:8	7951.00	CFT	763.00	3,816.00		1.717.00	CHOWN	7177
R.C.C. 1:2:4	15495.00	CFT	460.00	1,150.00	2.299.44			
R.C.C. 1:1.5:3	40829.00	CFT	4,911.00	12.277.00	24.554.64			
C.C. 1:3:6	2613.00	CFT	3,627.00	12,277.00	25.670.76			
BRICK WORKS (1:6)	27903.00	CFT	194.00	895.00			1 258 281 00	
BRICK WORKS (1:4)	3483.00	CFT	7.279.00	2395400			47 020 50	
3/8" C.P (1:6)	93206.00	SFT	248.15	705.57	†		00:020,74	
1/2" C.P (1:4)	26726.00	SFT	26.12	253.00				
STEEL	4213.00	CWT						4242.00
								4413.00
			17508.27	55327.57	52524.84	1717.00	1305301 50	4213.00

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	1.917.681	1.850,154	1,585,515	55,175	806,076	254,297	3,296	6,468,897
	PER % BAG	PER % CFT	PER % CFT	PER % CFT	PER % o NOS.	PER CWT	PER TON	
	10953.00	3344	3018.6	3213.46	617.54	60.36	663.00	
	BAG@	CFT. @	CFT. @	CFT. @	NOS. @	cwt @	TONS. @	
!	17508.27	55327.57	52524.84	1717.00	1305301.50	4213.00	4.971	
	CEMENT	SAND	BAJRI / CRUSH	STONE	BRICKS	STEEL	Bituman	

C. DIFFERENCE OF COST OF MATERIAL

165,470	165,470
Per Bag	TOTAL:
10.00	
BAG @	
16547.00	
Difference Cost of S.R Cement	

Note: All rates have been adopted from "BASIC SCHEDULE OF RATES - 2011"

Bill of Quantities for Chemical Department (External Development)

Sr.	Description	Qty.	Unit	Rate	Amount
No.	<u> </u>	_	1 3 mil	(Rs.)	(Rs.)
1	Excavation in foundation of building, bridges and other structures including debelling				
	and other structures including debelling dressing refilling around structure with	1	1]	
	excavated earthw ater and remming lead upto 5			!	
	ift.	l			
	b) in oridnary soil	1,555.00	cft.	3.17	4 020 25
	Ite 18-b, Page 4	1,033.00	i cit.	3.17	4,929.35
2	Filling, watering and ramming earth under floor				
	with new earth excavated fromoutsiee lead upto				
	c ne chain and lift upto 5 feet	655.00	cft.	3.63	2,377.65
	Item-22, Page 4				2,0 / / .03
3	(ement concrete plain including placing				
	compacting, finish and curing, complete (including screening and washing of stone		1 1		
	aggregate without shuttering			·	
	i 1:4:8 under floor and in foundation	1,587.00	cft.	112.00	170 140 51
	Item-5, Page 16	1,307.00	LIL.	112.88	179,140.56
4	Facca brick work in foundation and plinth in			<u> </u>	
	cement sand mortar including curing complete				
	(3) 1:6	1,708.00	cft.	119.48	204,071.84
5	Item-4 (i) (e). Page 20 SAND FILLING		İ	İ	
3					
	Sand filling under floor foot path /plinth protection and where requried including laying,				i
	levelling, dressing compacting and complete	İ			
	a) under Plinth Protection and floor	836.00	cft.	11.41	9,538.76
	Item-29, Page 26	350105		11.41	9,330.76
	PAVING BLOCKS				
	Providing and fixing cement paving blocks	!		j	
	flooring having size of 197x97x60 (mm) of		1	ľ	
ļ	city/qudda/cobble shape with pigment and				
ĺ	having strenght b/w 5000 psi to 8500 psi filling				
	the joints with hill sand and laying specified manner /pattern and design etc. (over 2" sand				
	cushion, complete	3,344.00	sft.	222.07	740.055.60
Ì	Item-72, Page 49	3,344.00	SIL.	223.97	748,955.68
7	PLAINT CEMENT SAND WALL PLASTERING	ľ		ļ	
	Providing and applying 3/4" thick plaster at any		ĺ		
	floor or at any height using approved quality				
	sand preferably machine mixed mortar,	Į			
	including all bends, corners, recesses including		- 1	1	
	scaffolding and hacking the concrete surfaces,		[
	arching the masonry joints and providing 8"				ļ
	wide GI wire mesh of 17 SWG 1"x1" size fixed	ŀ		[
	w th GI staples on masonry joints, concrete		-	1	
	o nts. All plaster to be finishes smooth with			1	J
	steel float in true to level, line and plumb and	ļ			ļ
	properly cured, complete as per drawings,		1	1	
	specifications and as directed by the Engineer.				
{	- an octon by the Bugineer.				}

Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
ìi. 9	Ground Floor + First Floor, Item No. 11 (c) External Surfaces 1/2" thick 1:4 CSM on walls/up stand/down stand beam projection. a) Ground Floor Chapter No.9, Page 52 ANTI TERMITE TREATMENT Providing Ani-terminite treatment by spraying / sprinkling / spreading Neptachlar 0.5% Emulsion as an ever all pre-construction treatment in slab type construction under the slab and along attache perches or entrances etc. complete as per directions of Engineer Incharge	1,970.00 18,815.00	%sft.	2,283.93 4.16	44,993.42 78,270.40
	Page 109, Item No. 92	20,010.00		4.10	70,270.40
	Sub Total				1,272,277.66
	PREMIUM % ABOVE/BELOW.				
	Total		· · · · · ·		