



THE SHAIKH AYAZ UNIVERSITY,
SHIKARPUR



**CONSTRUCTION OF VC RESIDENCE, GUEST
HOUSE, BOUNDARY WALL, MAIN GATE,
WAITING AREA AND MONUMENT FOR THE
PROJECT TITLED “PROVISION OF MISSING
FACILITIES FOR THE SHAIKH AYAZ
UNIVERSITY SHIKARPUR”**

VOLUME-II
BILL OF QUANTITIES
May, 2022

Issued to: _____

Dated: _____ **Signed:** _____

PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR		
BILL OF QUANTITIES		
SUMMARY OF COST		
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh		
Sr. No.	DESCRIPTION	AMOUNT
1.	VC Residence	
2.	Guest House	
3.	Boundary Wall	
4.	Main Gate, Waiting Area & Monument	
	GRAND TOTAL	

Contractor Sign & Stamp:

Project Director (PMF)

CONSTRUCTION OF VC RESIDENCE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR
BILLS OF QUANTITIES
SUMMARY OF COST

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

Sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
a	Cost of Schedule Items	10,443,198
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
d	Difference of Cost of Material	3,371,190
A - SUB TOTAL OF CIVIL WORKS		
2.	PUBLIC HEALTH WORKS	
a	Cost of Schedule Items	705,358
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
B - SUB TOTAL OF PHE WORKS		
3.	ELECTRIC WORKS	
a	Cost of Schedule Items	602,611
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
C. SUB TOTAL OF ELECTRICAL WORKS		
TOTAL (A+B+C)		
5% SST		
GRAND TOTAL WITH SST		

Amount in Words:

Contractor

Project Director (PMF)

CONSTRUCTION OF VC RESIDENCE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILLS OF QUANTITIES						
CIVIL WORKS						
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-1/18(b)	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft in Ordinary Soil.	%0Cft	6842.04	3176.25	21,732
2	C-18/92	Providing Anti-termmite treatment by spraying /sprinkling /spreading Neptachlar 0.5% Emulsion as an overall pre - construction treatment in slab type construction under the slab and along attached perches or entrances etc, complete as per directions of Engineer Incharge.	P.Sft	10782.64	9.74	105,023
3	C-4/5(i)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without for all shuttering. (Mix 1:4:8)	%Cft	2036.32	11288.75	229,875
4	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Foundation)	P.Cft	1238.16	337.00	417,260
5	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Ground Floor)	P.Cft	2493.56	337.00	840,330
6	C-4/6 a-i +6 (d)	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (First Floor)	P.Cft	1622.57	349.10	566,439
7	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) UPL	P.Cft	224.10	349.00	78,210
8	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) G.F	P.Cft	282.33	349.00	98,533
9	C-4/6 a-ii +6 (d)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) F.F	P.Cft	151.76	361.10	54,799
10	C-4/8(b)	Fabrication of mild steel reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removeal of rust from bars.) Using Tor bars	P.Cwt	364.06	5001.70	1,820,921
11	C-5/4-l(e)	Pacca brick work in foundation and plinth in cement sand mortar 1:6.	%Cft	4412.57	11948.36	527,230
12	C-1/21	Filling, watering and ramming earth in floors with surplus earth from foundation lead upto one chain and lift jupto 5 feet.	%0Cft	2280.68	1512.50	3,450
13	C-1/22	Filling, watering and ramming earth under floor with new earth (Excavated from outside) lead upto one chain and lift upto 5 feet.	%0Cft	22154.37	3630.00	80,420
14	C-5/5-l(d)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	2582.47	12902.08	333,193
15	C-5/5-l(c)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:4	%Cft	210.80	13227.41	27,884

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
16	C-5/5-I(d) + 6	Pacca brick work in First Floor cement, sand mortar Ratio 1:5	%Cft	1982.92	13340.71	264,536
17	C-5/5-I-c + 6	Pacca brick work in First Floor cement, sand mortar Ratio 1:4	%Cft	252.16	13666.04	34,460
18	C-9/12(b)	Cement plaster 1:5 upto 12' height:- b) ½" (13 mm) thick. (Internal) Ground Floor	%Sft	5273.61	2241.80	118,224
19	C-9/12(b)+29	Cement plaster 1:5 upto 12' height:- b) ½" (13 mm) thick. (Internal) First Floor	%Sft	4135.33	2382.77	98,535
20	C-9/12(c)	Cement plaster 1:5 upto 12' height:- b) ¾" (20 mm) thick. (Internal) Ground Floor	%Sft	4909.98	2678.50	131,514
21	C-9/12(c)+29	Cement plaster 1:5 upto 12' height:- b) ¾" (20 mm) thick. (Internal) First Floor	%Sft	3988.96	2819.47	112,467
22	C-9/11(c)	Cement plaster 1:4 Ground Floor upto 12' height:- c) ¾" (20 mm) thick. (External)	%Sft	4739.75	3015.76	142,939
23	C-9/11(c)+29	Cement plaster 1:4 First Floor upto 12' height:- c) ¾" (20 mm) thick. (External)	%Sft	3899.46	3156.73	123,095
24	C-9/10(a)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 12' height ratio 1:3. Ground Floor	%Sft	3381.16	2225.12	75,235
25	C-9/10(a)+29	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 12' height ratio 1:3. First Floor	%Sft	2113.74	2366.09	50,013
26	C-9/(38.A+38.B)	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make.:- three coats	%Sft	8639.21	2567.95	221,851
27	C-9/24(c)	Distempering:- New surface:- three coats	%Sft	22981.25	1079.65	248,117
28	C-5/29	Supplying and filling sand under floor and plugging in walls.	%Cft	1341.21	1141.25	15,307
29	C-4/2	Dry rammed brick or stone ballast 1 1/2" to 2" gauge.	%Cft	1427.33	3327.50	47,494
30	C-4/5(f)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without for all shuttering.(Mix 1:2:4)	%Cft	1031.73	14429.25	148,871
31	C-8/16-c	Providing and laying 2" thick topping cement concrete (1:2:4) including Surface finishing and dividing into panels:	%Sft	1077.11	3275.50	35,281
32	C-8/75	Providing & fixing glass strips 4 mm for flooring upto 1" depth l/c fixing in flooring with cement in specified pattern & design.	P.Sft	430.84	11.16	4,808
33	C-7/18	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	9.00	358.68	3,228
34	C-10/59	First class Sheesham wood wrought framed and fixed in place including chowkhats hold fasts, tower bolts, chocks, cleats, handles card with hooks and cost of nails and screws, etc. panelled or panelled and glazed or fully glazed 1-1/2" thick.	P.Sft	317.73	662.24	210,414
35	C-18/83(a)	Supplying & fixing inposition Aluminium channels framing for hinged doors or Alcop made with 5 mm thick tinted glass glazing (Belgium) and Alpha (Japan) locks l/c handles, stoppers etc. (a) Deluxe model (White)	P.Sft	81.60	1450.76	118,382
36	C-10/19-(A)-ii	Providing and fixing sliding bolt to doors.Iron sliding bolt 12" long.(a) Panelled or panelled and glazed or fully glazed 2" thick.	Each	14.00	222.23	3,111
37	C-10/21	Providing and fixing, approved quality mortice lock.	Each	14.00	1786.13	25,006
38	C-11/5-(c)	Preparing surface and painting of doors and windows any type, (including edges).Three Coats.	%Sft	635.46	2116.41	13,449
39	C-18/84(a)	Supplying & fixing in position Aluminium channels framing for slidding windows & ventilators of Alcop made with 5 mm thick tinted glass glazing (Belgium) & Aluminium fly screen l/c handles stoppers & locking arrangement etc. complete. (a) Deluxe model (White).	P.Sft	846.60	1592.69	1,348,371

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CONSTRUCTION OF VC RESIDENCE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILLS OF QUANTITIES						
CIVIL WORKS						
Non-Scheduled Items						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	NSI	Providing and laying false ceiling comprising of 5/8" thick plaster of paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire (16 SWG) duly enriched with POP and flaxen i/c thecost of making space for rope light /screws/jute/making holes for lights and rawal plugs including paint complete in all respects as approved and directed by the Incharge.	P.Sft	821.52		
2	NSI	Providing and applying wall putty (Kansai or equivalent) two coats on plastered surface to prepare the surface even and smooth complete in all respect as approved and directed by the Engineer Incharge.	P.Sft	22981.25		
3	NSI	Providing and laying Porcelain tiles flooring 24"x24"x3/8" light polished SB laid in cement over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement or matching pigment complete in all respect. (MASTER or Equivalent)	P.Sft	2937.29		
4	NSI	Providing and laying Porcelain tiles skirting/ dado 24"x4"x3/8" light polished SB laid in cement over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement or matching pigment complete in all respect. (MASTER or Equivalent)	P.Sft	280.27		
5	NSI	Providing and laying Ceramic Matt Tiles Texture Light color for flooring size 12"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the Engineer/ Incharge. (Premium Quality Tile, Equivalent)	P.Sft	570.24		
6	NSI	Providing and laying Ceramic Matt Tiles Texture Light color for skirting / dado size12"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the Engineer/ Incharge. (Premium Quality Tile, Equivalent)	P.Sft	1479.66		
7	NSI	Providing and fixing 3/4" thick Boticina Marble full width area above 2 Sft laid in white cement matching pigment 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment,including Polished and making gola on exposed edges complete in all respect as approved by the Engineer/ Incharge.(Stairs)	P.Sft	306.93		
8	NSI	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC frame matt or glossy finish having color (white-Gray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories i/c mortice locks complete in all respect as approval by the Engineer Incharge.	P.Sft	142.80		
9	NSI	Providing and fixing SS railing 2'-6" height, 2" dia SS pole 16 SWG at 4 ft c/c, 2" dia SS 16 SWG pipe on top, 3 no. 3/4" dia SS 16 SWG horizontal pipe from pole to pole, buffing and polishing complete in all respect including the cost of base plate, base plate cap, rawl bolt etc. as per approval of Engineer/ Incharge.	P.Rft	28.56		
10	NSI	Providing & Fixing Kitchen Cabinet with MDF Sheet 3/4" (16mm) thick i/c Drawers, Handles, Hinges, Screws etc complete in all respect as approved by the engineer incharge.	P.Sft	156.86		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
11	NSI	Providing and fixing metal (chicken mesh) mesh of 16 guage fixed with nails for concrete and bricks joint complete in all respect and as approved and directed by the Engineer Incharge.	P.Sft	2337.08		
O.H.W.T						
12	NSI	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab, tanks complete in all respects.	P.Rft	30.60		
		Total of Non SOR Items				

CONSTRUCTION OF VC RESIDENCE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR					
BILLS OF QUANTITIES					
CIVIL WORKS					
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh					
Note: Difference in cost of material is allowed as per Govt. Notification dated: 1-12-2021 issued by standing rates of committee Govt. Sindh vide NO.SCHEDULE/RATES-T(ii)/D.S/1476. Addendum & Corrigendum No.03 Dated 17th February 2022. No any Premium will be allowed on the items as per above Govt. Notification. The rate of difference in Cost of materials as approved by standing rates of committee Govt. Sindh will be paid only.					
Sr. No.	Item	Quantity	Unit	Rate taken from SoR notification dated 17-02-2022	Amount (Rs.)
1	Cement (Bags)	2236.46	P.Bags	325.00	726,848
2	Steel (Ton)	19.02	P.Ton	112000.00	2,129,969
3	Bricks (No.)	150100.92	%0No.	3000.00	450,303
4	Hill Sand (Cft)	9663.06	%Cft	475.00	45,900
5	Stone Ballast (Cft)	1427.33	%Cft	1273.00	18,170
	Total of Difference of Material Cost				3,371,190

Contractor Sign & Stamp

CONSTRUCTION OF VC RESIDENCE AT THE SHAIKH AYAZ UNIVERSITY, SHIKARPUR						
BILL OF QUANTITIES						
PUBLIC HEALTH WORKS						
Rates Based on Composite Schedule of Rate (GENERAL-2012)						
SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
		SANITARY FIXTURES AND FITTINGS				
1	SOR(Water supply & Sewerage (Ch 1/5)	Providing and fixing European type white glazed earthen ware wash down W.C. pan complete with and l/c the cost of white/black plastic seat (Best quality) and lid with C.P.brass hineges and buffers, 3 gallons white glazed earthen ware low level foushing cistern with siphon fitting 1-1/2" dia white porcelain enamelled fluish bend 3/4" dia and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4. (Master, Sonex, Porta)	Each	5.00	11,477.40	57,387.00
2	SOR(Water supply & Sewerage (Ch 1/2-A ii)	Providing and Fixing squatting type white glazed earthen ware w.c pan with front fresh inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls plinth & floor for pipe connection and making good in cement concrete 1:2:4. (A) W.C pan 23" & low level earthen ware flush tank 3 gallons. (ii) with 4" dia white glazed earthen ware trap and plastic thumble. (Master, Sonex, Porta)	Each	2.00	5,772.80	11,545.60
3	SOR(Water supply & Sewerage (Ch 1/19-c)	Providing and fixing steel sinks stainless local make complete with cast iron or wrought iron brackets 6 inches built in wall, 1-1/2" c.p bubbler plug chrome plated brass chain, 1-1/2" c.p brass waste, with 1-1/2" 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. (c) Steel sink stainless sized 33" x 18" local make (Standard pattern) (Master or Equivalent)	Each	2.00	5,712.30	11,424.60
4	SOR(Water supply & Sewerage (Ch 6/19 (a)	Providing and fixing CP Muslim shower with double bib cock & ring pipe etc complete. (Master, Sonex, or Equivalent)	Each	7.00	3,432.00	24,024.00
5	SOR(Water supply & Sewerage (Ch 2/5)	Providing and fixing soap tray earthen ware with c.p screws etc.complete. (Master, Sonex, or Equivalent)	Each	7.00	497.20	3,480.40
6	SOR(Water supply & Sewerage (Ch 2/1 (iii-b)	Providing and fixing chrome plated brass towel rail complete with brackets fixing with 1" long c.p brass screws. (iii) Towel Rail 24" long (b) 3/4" dia round or square (Superior Quality)	Each	3.00	1,082.95	3,248.85
7	SOR(Water supply & Sewerage (Ch 2/2 (b)	Providing and fixing c,p brass toilet paper holder of standard size with chrome plated brass brackets complete (Similar to twyforde design No 1108) (b) Superior Quality	Each	7.00	1,071.40	7,499.80
8	SOR(Water supply & Sewerage (Ch 1/22	Providing and fixing (1/2") dia, lead connection complete with a (1/2") dia brass stop cock, two brass nuts & lining jointed to lead pipe with plumber wiped solder joints (1/2" lead pipe to be of not less than 4lbs per lineal yard. (Master, Sonex, or Equivalent)	Each	25.00	689.70	17,242.50
9	SOR(Water supply & Sewerage (Ch 10/1 (i)	Providing and fixing 6" x 4" C.C gully trap with 4" outlet complete with 4" thick 1:2:4 C.C for bed & 1/2" thick cement plaster (1:3) to the karb. C.I grating 6" x 6" C.I cover and frame 12" x 12" (inside) etc complete. Earthan ware glazed Gully trap 6" x 6" x 4" with C.I cover & Frame.	Each	5.00	1,220.67	6,103.35
10	SOR (PHE works) Part-B (II) A-2	Providing and laying R.C.C. pipe & collors of class "B" and fixing in trench i/c cutting,fitting and jointing with maxphalt composition and cement mortar (1:1) i/e. testing with water to a head of 22.5 meter or 76 ft. (e) 300mm (12") i/d	P.Rft	400.00	543.75	217,500.00

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
11	SOR (PHE works) Part-B (III) A-1	Excavation for pipeline in trechches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint and holes and disposal of surplus earth within a one chain as directed by engineer incharge.Providing fence guards, lights, flags and temperory crossings for non-vehicular traffic where ever required lift upto 5ft. (1.52 m) and lead upto one chain (30.5 m).	1000 Cft	3,600.00	3,600.00	12,960.00
12	Ch/1/13 (d)	Earth work compaction (Soft, ordinary or hard soil). (d) Ramming earth work (All types of soil).	1000 Cft	3,600.00	453.75	1,633.50
13	Ch/1/9 (a)	Rehandling of earth work. (a) Lead upto a single throw of Kassi, Phawrah or a = Shovel.	1000 Cft	3,600.00	756.25	2,722.50
14	SOR(Water supply & Sewerage (Ch 6/4 (iv)	Providing and fixing full way gun metal peet/gate valve with wheels, threaded or flabged ends with rubber washing.(iv) 1-1/4" (Light pattern) (Kitz. Audco or Equivalent)	Each	6.00	337.92	2,027.52
15	SOR(Water supply & Sewerage (Ch 6/4 (v)	Providing and fixing full way gun metal peet/gate valve with wheels, threaded or flabged ends with rubber washing.(v) 1-1/2" (Light pattern) (Kitz. Audco or Equivalent)	Each	6.00	695.42	4,172.52
		MANHOLE				
16	VI-B (ii) P (1)	Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067 mm) depth waith walls of BB in cement sand mortar 1:3 cement plastered 1:3, 1/2" thick. Inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 1-1/2' x 1-1/2' (457 x 457mm) of 1.75 cwt. (88.9 Kg) embaded in plain C.C 1:2:4 and fixing 1"(25mm) dia MS steps 6" (150 mm) wide projecting 4" (102mm) from the face of wall at 12" (305mm) C/C duly painted etc. Complete as per Standard specification and drawing.	Job	10.00	14,748.00	147,480.00
17	SOR (Water supply & Sanitary works) Ch 1-13	Providing & fixing 22"x 16" lavatory basin in white glazed earthen ware complete with & i/c the cost of W.I or C.I cantilever brackets 6 inches built into walls, painted white in 2 coats after a primary coat of red lead paint, a pair of 1/2" rubber plug & chrome brass waste of approved pattern 1-1/4" dia malloable iron or CP brass trap, malloable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connection &making good in cement concrete 1:2:4 (Foreign or Equivalent) (Master, Sonex, or Equivalent)	Each	7.00	6,237.00	43,659.00
18	SOR (Water supply & Sanitary works) Ch 6-14 (b)	Providing and fixing, wash hand basin mixture of superior quality with CP head 1/2' dia. (Master, Sonex, or Equivalent)	Each	11.00	3,179.00	34,969.00
19	SOR (Water supply & Sanitary works) Ch 1-20	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 without a vent arm complete with & i/c making requisite number of holes in walls, plinth & floor for pipe connections & making good cement concrete 1:2:4.	Each	24.00	2,042.43	49,018.32
20	SOR (Water supply & Sanitary works) Ch 1-26 (b)	Providing and fixing 24"x 18" bavelled edge mirror of belgium glass complete with 1/8' thick hard board and c.p screws fixed to wooden pleat. (Superior Quality)	Sft	7.00	2,376.00	16,632.00
		VALVES				
21	SOR (Water supply & Sanitary works) Ch 6-5	Providing and fixing handle valves (China) 16bars or equivalent complete in all respects as approved by the engineer incharge.				
	ii	3/4 inch	Each	6.00	271.92	1,631.52

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CONSTRUCTION OF VC RESIDENCE AT THE SHAIKH AYAZ UNIVERSITY, SHIKARPUR						
BILL OF QUANTITIES						
PUBLIC HEALTH WORKS						
Non-Scheduled Items						
SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
1	NSI	UPVC Multi Floor Trap (110x75mm) including strainer; making required number of connections; breaking concrete or masonry work & then making it good; etc. of approved make. (Master, Sonex, or Equivalent)	Each	10.00		
2	NSI	Providing, Fixing Dadex Class D or equivalent UPVC clean out with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure complete including, rubber gasket and clamp. (Dadex, Popular or Equivalent)	Each	4.00		
3	NSI	Providing and fitting "P" trap:ii) 10 cm (4") glazed.	Each	7.00		
4	NSI	Providing and fixing Wall Shower grohe concealed or equivalent complete in all respects as approved by the Engineer incharge. (Master, Sonex, or Equivalent)	Each	3.00		
5		WATER SUPPLY PIPES AND FITTINGS				
		P/F Polypropylene Random copolymer (PPRC) PN-20 pipe with fusion / threaded joints including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Popular /Beta or equivalent) complete in all respect.				
	i	1 1/2" (40 mm) dia.	Rft	110.00		
	ii	1" (25 mm) dia.	Rft	180.00		
	iii	2" (50 mm) dia.	Rft	80.00		
	iv	3/4" (20 mm) dia.	Rft	400.00		
6		SOIL, WASTE, VENTILATING PIPES & FITTINGS				
		Providing , fixing and testing UPVC Nikasi type "B" with solution of same quality make including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Popular/Beta or equivalent) complete in all respect.				
	i	100 mm (4") dia.	Rft	260.00		
	ii	80 mm (3") dia.	Rft	230.00		
		GAS GESYER				
7	NSI	Providing and Fixing Sui Gas Geyser 50 gallon capacity comprising of internal tank of G.I sheet 14-SWG and External M.S sheet 22-SWG covering with proper foot rests dully enamel painted, 4" thick heigh density glass wool insulation with proper warranty with thermostat temperature gauge including fixing and making connection at site etc. complete in all respects as approved by the Engineer Incharge. (Ambassador/Firex/Exquire)	No	1.00		
8	NSI	Providing and fixing Gate valve 1 bars, RUV(itly) or equivalent complete in all respects as approved by the Engineer incharge.	Each	2.00		
9	NSI	Providing and fixing Gate valve 2 bars, RUV(itly) or equivalent complete in all respects as approved by the Engineer incharge.	Each	4.00		
Total of Non Scheduled ITEMS						

CONSTRUCTION OF VC RESIDENCE AT THE SHAIKH AYAZ UNIVERSITY, SHIKARPUR

BILL OF QUANTITIES

ELECTRICAL WORKS

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1		DISTRIBUTION BOARDS				
		(General Description) Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 440 V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects metion in BOQ or not required for performing completely. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineering or equivalent as per instructions by engineer incharge.				
		(General Description) All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of ABB, Schneider or equivalent as per instructions by engineer incharge				
i)		Main Distribution Board				
		INCOMMING				
a	ELECT SH-X(207)	Providing and fixing circuit breaker 15,20,30,40,50, 75 & 100 amps TP(XS-100NS) on prepared board as required.	Per No.	1	9226	9,226
b	ELECT SH-XV(269)	Providing and fixing of current transformer of ration 60/5 amps (round) RLC-30 as required or as per instructed as EI.	Per No.	3	1191	3,573
c	ELECT SH-XVI(285)	Providing and fixing voltmeter size 96/96mm 500 volt as required and as instruction of EI.	Per No.	3	999	2,997
d	ELECT SH-X(203)	Providing and fixing circuit breaker 6,10,15,20,30,40,50 & 63 amps SP(TB-5S) on prepared board as required.	Per No.	3	916	2,748
		OUTGOING				
e	ELECT SH-X(203)	Providing and fixing circuit breaker 6,10,15,20,30,40,50 & 63 amps SP(TB-5S) on prepared board as required.	Per No.	36	916	32,976
f	ELECT SH-X(206)	Providing and fixing circuit breaker 15,20,30,40,50 & 60 amps TP(XES-100CB(CS)) on prepared board as required.	Per No.	3	5521	16,563
2		WIRING IN CONCEALED CONDUITS				
i)		Distribution board to Switch				
		(General Description) Wiring of light circuit from Distribution Board to switch,with Three nos. single core 2.5 Sqmm PVC insulated 450/750 volts grade stranded copper conductor cables in concealed PVC conduits (conduits partly shared) including PVC conduit, and conduit accessories etc. Cable should be of Newage, Fast cable, Universal cables or equivalent and conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge				
	ELECT SH-I(24)	Providing and laying (main or Sub Main Pvc insulated with 3-7.29 copper conductor in 3/4" dia PVC conduit recessed in the wall or column as required.	Rmtr	300	294.00	88,200
ii)		Switch to light point				
		(General Description) Wiring from switch to light or fan point with 3 nos. single core 1.5 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories,etc.(conduit partly shared).				
a	ELECT SH-II(124)	Wiring of Light and fan point with 3.29 Pvc insulated wire in 20mm (3/4") dia PVC conduit recessed in the wall or column as required.	Per/Point	88	1,130.00	99,440
		Point to point wiring				

[illegible]

CONSTRUCTION OF VC RESIDENCE AT THE SHAIKH AYAZ UNIVERSITY, SHIKARPUR						
BILL OF QUANTITIES						
ELECTRICAL WORKS						
Non-Scheduled Items						
Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1		<u>DISTRIBUTION BOARDS</u>				
		(General Description) Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 440 V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects metion in BOQ or not required for performing completely. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineering or equivalent as per instructions by engineer incharg				
		(General Description) All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of ABB, Schneider or equivalent as per instructions by engineer incharge				
		<u>Main Distribution Board</u>				
		<u>INCOMING</u>				
		03 No Digital Ammeter scaled 0-500 Amps of appropriate sizes.				
		03 Nos. R-Y-B indication lamps.				
	NSI	05 Nos.copper bus bars 100 Ampere,three phase,Earth and Netural for distrubitions with appropriate size DB BOX	Job	1		
		Each Bus bar is 300*12*2 mm.				
2		<u>LIGHT FIXTURES</u>				
		(General Description) Supply, installation, testing and commissioning of following light fittings, ceiling, recessed,wall mounted as per specified fixture. Complete with internal wiring, Grounding terminal , driver complete in all respects. Lights should be of Phillips, ledvance or equivalent				
i)	NSI	20 Watt LED Light Fixture surface/recessed mounted, IP-22 rated	No.	96		
ii)	NSI	15 Watt (Warm) LED Light Fixture surface/recessed mounted, IP-22 rated	No	29		
iii)	NSI	15 Watt (White) LED Light Fixture surface/recessed mounted, IP-22 rated	No.	23		
iv)	NSI	10 Watt LED Light Fixture surface/recessed mounted, IP-22 rated	No.	11		
3		<u>MISCELLANEOUS FITTINGS</u>				
		(General Description) Supply, installation, testing & commissioning of Ceiling/ Exhaust fan. The ceiling/ exhaust fan shall comprise circular fan metallic/ plastic body, metallic fan blades, down rod (if necessary) of suitable dia & length, AC capacitor, internal wiring, terminals all installation & operational accessories as per tender specifications, as per site requirements and as per instructions by the Engineer. make GFC, Pak Fan, Royal Fan or approved equivalent.				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
i)	NSI	Providing and Fixing of brass ceiling fan 56" (good quality)	No.	13		
ii)	NSI	12 " outer dia exhaust fan with plastic body,fan blades and louvers	No.	9		
4		WIRING ACCESSORIES				
		(General Description) Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of TJ, Legrand or approved equivalent.				
i)	NSI	10 Amps, 250Volts one way, Two gang light control switches including appropriate size concealed Plastic back box.	No.	9		
ii)	NSI	10 Amps, 250Volts one way, Three gang light control switches including appropriate size concealed Plastic back box.	No.	7		
iii)	NSI	10 Amps, 250Volts one way, Four gang light control switches including appropriate size concealed Plastic back box.	No.	7		
iv)	NSI	10 Amps, 250Volts one way, Six gang light control switches including appropriate size concealed Plastic back box.	No.	7		
v)	NSI	15 Amps, 250Volts, universal 5 in 1 switched socket unit including appropriate size Plastic back box.	No.	36		
vi)	NSI	20 Amps Double Pole(DP) switch with neon indication lamp complete including appropriate size Plastic back box.	No.	14		
vii)	NSI	45 Amps Double Pole(DP) switch with neon indication lamp complete including appropriate size Plastic back box.	No.	1		
viii)	NSI	Fan Dimmer 250 watt with switch including appropriate size Plastic back box. with all associated accessories.	No.	13		
ix)	NSI	Appropriate size of plastic body fan box and ceiling fan rod 24" in length	Nos	13		
x)	NSI	MS BAR for hanging Ceiling fan	Nos	13		
5		GROUNDING SYSTEM				
i)		GROUNDING cable				
	NSI	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- 16 mm sq (7/0.064")	rmtr	30		
ii)		Plate type earthing				
	NSI	Providing & fixing of Plate type Earthing compressed with excecuted hole 6"up 63 feet,G.I pipe 2"(50mm)with Tees , Sockets , Endcap of 60 (RFT) Copper Plate of 1/2"x 2"x 48", 2x 70mmsq S/Core copper bare conductor 125 (Rft) Earth Connection Point of 1200 x 50 x 50mm (L x W x T) Inspection Pit of 300 x 300 x 450 mm (L x W x D) completed with all respect	No.	1		
iii)		Testing and commissiong				
	NSI	Testing and commissioning of the earthing system in the presence of site engineer with electronic devices such as megger etc, making so report with after approximating 3 time testing and the grounding ohm must be less than or upto 3 ohms	Nos.	1		
6		LT CABLES				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		(General Description) Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description) in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of Newage, Fast cable, Universal cables or equivalent and conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge				
	NSI	Providing and laying (main or Sub Main) Pvc insulated, Pvc sheathed with 4 core copper conductor 600/1000 volts size 35mm2	Rmtr	50		
7		CIVIL WORKS				
i)		Trench (for LT Cable)				
	NSI	Labour for excavation and refilling of trench 12" wide, 24" deep 9" sand compaction below and above in preinstalled PVC pipes, ramming watering all necessary material, labour etc, complete in all respect. Actual length of the trench shall be as per site condition and paid accordingly however approximate length of trench is given.	R.Mtr	50		
ii)		Manhole For LT Cable Pulling (If Required)				
	NSI	Construction of manholes to facilitate pulling of cables in trench or conduit as shown on drawing, manholes shall be of the size 24" x 24" x 30" deep with 9" thick wall with cement mortar, internal plaster 1:4, 100mm thick RCC cover for manhole, including cost of all accessories / materials, complete in all respects. (Tentative number of manholes have been provided, however payment shall be made as per actual and as per quantity requirement)	Nos.	3		
iii)		Conduit				
		Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials, conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.				
a	NSI	20 mm i/d	R.Mtr	90		
b	NSI	25 mm i/d	R.Mtr	20		
8		CCTV System				
i		Camera Cable				
	NSI	Supply, installation, Testing and commissioning of CAT 6a UTP CABLE IN PVC PIPE Ø 1"; MEASUREMENT IN METERS complete in all respects.including cost of conduit and its accesories installing arrangment, making jurries in wall and repairment of wall. Made of D-Link or equivalent approved by engineer incharge	R.Mtr	120		
9		DATA NETWORKING SYSTEM				
i		Data Network point				
	NSI	Wiring for each data/computer point with UTP, 4 pair Cat 6a (500 Mhz) Network Cable supports (10 Giga) laid in PVC Conduit , with pure copper conductor PVC insulated PVC sheathed including cost of Single Shutter Face palte with UTP Cat-6a Keystone Jack with Back Box to be installed on walls, from Data Cabinet to Computer Points, PVC conduit & Cable tray. including cost of conduit and its accesories installing arrangment, making jurries in wall and repairment of wall. cable should be made of D-link(NCB-6AUGRYR-305) or equivalent & conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.	Points	6		
ii		Networking Switch				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	NSI	Supply, installation, testing and commisioning of TP-Link 8-Port Gigabit Easy Smart Switch with 4-Port PoE (TL-SG108PE) 8 10/100/1000Mbps ports provide instant large file transfers • Equipped with 4 802.3af PoE ports with up to 15.4W for each port • Supports PoE power up to 55W for all PoE ports • IEEE 802.3x flow control provides reliable data transfers as per instructions by Engineer Incharge	Nos	1		
iii		Faceplate				
	NSI	Supply, installation, testing and commisioning of single Faceplate Accepts Two Keystone Jacks with Shutter & ID Plate- 86*86 mm - White Colour - Square with Cat6 UTP 180° Punch Down Keystone Jack - White Colour and Back Box for Dual Shutter Face/Plate. Plastic(D35xH85xW85 CM), complete in all respects. made of D-Link(NFP-0WHI21)+(NKJ-C6WHI1B21) or equivalent as per instructions by site engineer	Nos.	6		
iv		Wifi Access Points				
	NSI	Supply at site, installation, testing and commissioning of the instant access point for Wifi(Enterprise),including wifi connection with the supplier 1 device as wifi and other as router for first floor making the job complete in all respects.	Job	1		
v		Television point				
	NSI	Supply at site, installation, testing & commissioning of Wiring for each Television point with coaxial cable RG-6 1.0 MM (BLACK) CU CLAD, in 1" dia conduit partly shared, Network Cable pure copper conductor PVC insulated PVC sheathed including cost of Jack with Back Box to be installed on Walls, from boster to Television Points on walls, complete in all respect including cost of conduit and its accesories installing arrangment, making jurries in wall and repairment of wall. cable should be made of D-link or equivalent & conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.	Nos	4		
vi		Faceplate				
	NSI	Supply, installation, testing and commisioning of faceplate SINGLE SHUTTER/PORT WITH 1 gang tv outlet & BACK BOX , complete in all respects. Made of legrand or equivalent as per instructions by site engineer	Nos.	4		
vii		Telephone				
	NSI	Supply at site, installation, testing & commissioning of Wiring for each Telephone point with 5 pair telephone cable , in 1" dia conduit partly shared, solid plain copper conductors, solid PVC insulation, conductors twisted together in pairs, overall PVC sheath, conductor resistance (Max @ 200C) 97.8ohms/km, capacitance Unbalanced (Max) 500pF/500m, insulation resistance (Min @ 200C): 50Mohms/km including cost of Keystone Jack with Back Box to be installed on Walls, from Junction box to Telephone Points on walls, complete in all respect. cable should be made of D-link or equivalent & conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.	Nos	4		
viii		Faceplate				
	NSI	Supply, installation, testing and commisioning of faceplate SINGLE SHUTTER/PORT WITH 1x RJ-11 I/O & BACK BOX , complete in all respects. Made of TJ, legrand or equivalent as per instructions by engineer incharge	Nos.	4		
Total of Non-Scheduled Items						

Name of Work: Construction of VC Residence For The Project “ Provision of Missing Facilities For The Shaikh Ayaz University Shikarpur”.

Terms & conditions

- I. Approved quality or equivalent Cement will be used with the approval of Engineer In-charge With ASTM C -150 standard For Cement Quality.
- II. Only approved quality Sand will be used with the approval of Engineer In-charge. Refer ASTM C-33 Standard For Sand Quality.
- III. Only approved quality Crush stone will be used with the approval of Engineer In-charge. Refer ASTM C-33 Standard For Crush stone Quality.
- IV. Only approved quality Burnt Bricks will be used with the approval of Engineer In-charge. Refer ASTM C62 Standard For Sand Quality.
- V. Only approved quality Steel will be used with the approval of Engineer In-charge. Refer ASTM A-615 Standard For Steel Quality.
- VI. No cartage of any material arranged by the contractor himself /themselves will be paid in any shape.
- VII. Only clean water from the city supply, tube well installed at the site or from other sources approved by the Engineer In-charge shall be used in mixing concrete, Curing, Cleaning plant and tools. The water shall be tested according to B.S. 314. Contractors shall have to make their own arrangement of palatable water for use in work at his / their own cost.
- VIII. Concrete shall be mixed with mechanically operated Concrete Mixer with due concentration to aggregate and water ratio.
- IX. If any wherever nomenclature or any item is elaborated or not clear or any typographical error occurs in the schedule for the tender it should be read strictly as per composite schedule of rates issued by standing rates committee Govt. of Sindh.
- X. All material shall confirm the standard specifications.
- XI. No premium shall be allowed on non-scheduled items / offered rates.
- XII. All the debris and surplus stuff shall be removed from the site / disposed-off by the contractor for which no extra cost of cartage etc. shall be paid.
- XIII. All RCC / PCC cost in Situ shall be mechanically vibrated by the contractor for which no extra cost will be paid.
- XIV. All materials / mixes used in structure shall be tested from recognized laboratory and test report shall be submitted without any delay for which no extra cost etc. shall be paid.
- XV. Electricity used shall be the responsibility of contractor for which no extra cost etc. shall be paid. Camp office / material stock/Go down constructed at site shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVI. All workers within the execution area should wear protection helmets and full boots and ensure all safety & security measures for lives of labors / inhabitants shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVII. Deployment of full-time engineer at site shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVIII. Inspection request shall be submitted before 24 hrs. of execution of any new trade/activity.
- XIX. Pour slip to be submitted for approval of any CC and RCC work well before execution of pouring.
- XX. The contractor shall have to visit the site before filling the bidding documents.

Contractor's Signature

Contractor's Name: _____

Stamp:

CONSTRUCTION OF GUEST HOUSE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR
BILLS OF QUANTITIES
SUMMARY OF COST

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

Sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
a	Cost of Schedule Items	25,849,983
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
d	Difference of Cost of Material	11,244,451
A - SUB TOTAL OF CIVIL WORKS		
2.	PUBLIC HEALTH WORKS	
a	Cost of Schedule Items	1,333,772
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
B - SUB TOTAL OF PHE WORKS		
3.	ELECTRIC WORKS	
a	Cost of Schedule Items	2,391,563
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
C. SUB TOTAL OF ELECTRICAL WORKS		
TOTAL (A+B+C)		
5% SST		
GRAND TOTAL WITH SST		

Amount in Words:

Contractor

Project Director (PMF)

CONSTRUCTION OF GUEST HOUSE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILLS OF QUANTITIES						
CIVIL WORKS						
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-1/18(b)	Excavation in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structure with excavated earth Watering and ramming lead upto 5 ft in Ordinary Soil.	%0Cft	24069.32	3176.25	76,450.18
2	C-18/92	Providing Anti -termite treatment by spraying /sprinkling /spreading Neptachlar 0.5% Emulsion as an overall pre - construction treatment in slab type construction under the slab and along attached perches or entrances etc, complete as per directions of Engineer Incharge.	P.Sft	21040.51	9.74	204,934.54
3	C-4/5(i)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without for all shuttering.(Mix 1:4:8)	%Cft	2029.32	11288.75	229,084.35
4	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Foundation)	P.Cft	7663.52	337.00	2,582,606.32
5	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Ground Floor)	P.Cft	5078.49	337.00	1,711,451.04
6	C-4/6 a-i +6 (d)	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (First Floor)	P.Cft	3802.12	349.10	1,327,319.29
7	C-4/6 a-i +6 (d)	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Second Floor)	P.Cft	981.79	361.20	354,623.07
8	C-4/6 b-i + c	Precast reinforced cement concrete in columns, beams lintels stair cases, shelves, etc. (I) Ratio 1 : 2: 4 including erecting and fixing in position precast cement concrete or stone slab in roofs or Lintels, etc, lift upto 20 feet including all charges. (Terrace Railing)	P.Cft	342.72	351.55	120,483.22
9	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) UPL	P.Cft	1031.36	349.00	359,945.84
10	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) G.F	P.Cft	1406.40	349.00	490,835.24
11	C-4/6 a-ii +6 (d)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) F.F	P.Cft	1172.31	361.10	423,322.83
12	C-4/6 a-ii +6 (d)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) S.F	P.Cft	56.61	373.20	21,126.85

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
13	C-4/8(b)	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) Using Tor bars	P.Cwt	1411.81	5001.70	7,061,430.00
14	C-5/4-I(e)	Pacca brick work in foundation and plinth in cement sand mortar 1:6.	%Cft	7282.21	11948.36	870,105.15
15	C-1/21	Filling, watering and ramming earth in floors with surplus earth from foundation lead upto one chain and lift upto 5 feet.	%0Cft	8023.11	1512.50	12,134.95
16	C-1/22	Filling, watering and ramming earth under floor with new earth (Excavated from outside) lead upto one chain and lift upto 5 feet.	%0Cft	33065.86	3630.00	120,029.06
17	C-5/5-I(d)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	7505.32	12902.08	968,341.80
18	C-5/5-I(c)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:4	%Cft	97.01	13227.41	12,832.12
19	C-5/5-I(d) + 6	Pacca brick work in First Floor cement, sand mortar Ratio 1:5	%Cft	5653.02	13340.71	754,152.81
20	C-5/5-I-c + 6	Pacca brick work in First Floor cement, sand mortar Ratio 1:4	%Cft	415.42	13666.04	56,771.31
21	C-5/5-I(d) + 6	Pacca brick work in Second Floor cement, sand mortar Ratio 1:5	%Cft	192.30	13915.46	26,759.69
22	C-9/12(b)	Cement plaster 1:5 upto 12' height:- b) ½" (13 mm) thick. (Internal) Ground Floor	%Sft	11428.85	2241.80	256,211.90
23	C-9/12(b)+29	Cement plaster 1:5 upto 12' height:- b) ½" (13 mm) thick. (Internal) First Floor	%Sft	10827.33	2382.77	257,990.32
24	C-9/12(b)+29	Cement plaster 1:5 upto 12' height:- b) ½" (13 mm) thick. (Internal) Second Floor	%Sft	401.63	2523.74	10,135.97
25	C-9/12(c)	Cement plaster 1:5 upto 12' height:- b) ¾" (20 mm) thick. (Internal) Ground Floor	%Sft	4931.24	2678.50	132,083.39
26	C-9/12(c)+29	Cement plaster 1:5 upto 12' height:- b) ¾" (20 mm) thick. (Internal) First Floor	%Sft	5670.11	2819.47	159,866.97
27	C-9/11(c)	Cement plaster 1:4 Ground Floor upto 12' height:- c) ¾" (20 mm) thick. (External)	%Sft	7063.50	3015.76	213,018.21
28	C-9/11(c)+29	Cement plaster 1:4 First Floor upto 12' height:- c) ¾" (20 mm) thick. (External)	%Sft	6073.59	3156.73	191,726.84
29	C-9/11(c)+29	Cement plaster 1:4 Second Floor upto 12' height:- c) ¾" (20 mm) thick. (External)	%Sft	2927.08	3297.70	96,526.36
30	C-9/10(a)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 12' height ratio 1:3. Ground Floor	%Sft	3339.85	2225.12	74,315.78
31	C-9/10(a)+29	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 12' height ratio 1:3. First Floor	%Sft	2704.17	2366.09	63,983.17
32	C-9/10(a)+29	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 12' height ratio 1:3. Second Floor	%Sft	237.03	2507.06	5,942.42
33	C-9/24(c)	Distempering:- New surface:- three coats	%Sft	39540.21	1079.65	426,895.86
34	C-9/(38.A+38.B)	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make:- three coats	%Sft	11961.86	2567.95	307,174.55
35	C-5/29	Supplying and filling sand under floor and plugging in walls.	%Cft	2801.33	1141.25	31,970.22
36	C-4/2	Dry rammed brick or stone ballast 1 1/2" to 2" gauge.	%Cft	2659.69	3327.50	88,501.07
37	C-8/74	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 80 (mm) of city / quddra / cobble shape with pigmented having strength b/w 5000 psi to 8500 psi l/c filling the joints with hill sand and laying in specified manner / pattern and design etc: complete.	P.Sft	1119.96	248.17	277,940.47
38	C-4/5(f)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without for all shuttering.(Mix 1:2:4)	%Cft	2284.14	14429.25	329,584.03

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CONSTRUCTION OF GUEST HOUSE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILLS OF QUANTITIES						
CIVIL WORKS						
Non-Scheduled Items						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	NSI	Providing and laying false ceiling comprising of 5/8" thick plaster of paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire (16 SWG) duly enriched with POP and flaxen i/c thecost of making space for rope light /screws/jute/making holes for lights and rawal plugs including paint complete in all respects as approved and directed by the Incharge.	P.Sft	5099.37		
2	NSI	Providing and applying wall putty (Kansai or equivalent) two coats on plastered surface to prepare the surface even and smooth complete in all respect as approved and directed by the Engineer Incharge.	P.Sft	79080.42		
3	NSI	Providing and laying Porcelain tiles flooring 24"x24"x3/8" light polished SB laid in cement over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement or matching pigment complete in all respect. (MASTER or Equivalent)	P.Sft	8397.58		
4	NSI	Providing and laying Porcelain tiles skirting/ dado 24"x4"x3/8" light polished SB laid in cement over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement or matching pigment complete in all respect. (MASTER or Equivalent)	P.Sft	1385.79		
5	NSI	Providing and laying Ceramic Matt Tiles Texture Light color for flooring size 12"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the Engineer/ Incharge. (Premium Quality Tile, Equivalent)	P.Sft	957.78		
6	NSI	Providing and laying Ceramic Matt Tiles Texture Light color for skirting / dado size12"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the Engineer/ Incharge. (Premium Quality Tile, Equivalent)	P.Sft	3609.27		
7	NSI	Providing and fixing 3/4" thick Boticina Marble full width area above 2 Sft laid in white cement matching pigment 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment,including Polished and making gola on exposed edges complete in all respect as approved by the Engineer/ Incharge.(Stairs, Podium, Vanity)	P.Sft	2026.29		
8	NSI	Providing and fixing UPVC Doors 38mm thickness i/c deluex matching color UPVC frame matt or glossy finish having color (white-Gray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories i/c mortice locks complete in all respect as approval by the Engineer Incharge.	P.Sft	374.85		
9	NSI	Providing and fixing SS railing 2'-6" height, 2" dia SS pole 16 SWG at 4 ft c/c, 2" dia SS 16 SWG pipe on top, 3 no. 3/4" dia SS 16 SWG horizontal pipe from pole to pole, buffing and polishing complete in all respect including the cost of base plate, base plate cap, rawl bolt etc. as per approval of Engineer/ Incharge.	P.Rft	339.15		
10	NSI	Providing & Fixing Kitchen Cabinet with MDF Sheet 3/4" (16mm) thick i/c Drawers, Handles, Hinges, Screws etc complete in all respect as approved by the engineer incharge.	P.Sft	42.78		

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
11	NSI	Providing & laying face work by using gutka 9" x 2-1/4"x2-1/4" of approved quality in cement sand surkhi mortar (1:1:3) i/c back filling 3/8" thick with 1:4 cement sand mortar making trapezoidal groove / set back of 1/4" depth during fresh masonry work laid with M.S flat for wall ties, one side embeded in the masonry work and other side in gutka at 12" center to center vertically and 36" center to center horizontally, racking out joints, curing and its removal, including carriage complete (contractor shall prepare samples at site) as approved by the engineer incharge.	P.Sft	4102.31		
12	NSI	Providing and fixing metal (chicken mesh) mesh of 16 guage fixed with nails for concrete and bricks joint complete in all respect and as approved and directed by the Engineer Incharge.	P.Sft	5622.75		
O.H.W.T						
13	NSI	Providing embedding 10" (250 mm) wide 1/4" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab, tanks complete in all respects.	P.Rft	55.59		
Total of Non SOR Items						

CONSTRUCTION OF GUEST HOUSE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR					
BILLS OF QUANTITIES					
CIVIL WORKS					
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh					
Note: Difference in cost of material is allowed as per Govt. Notification dated: 1-12-2021 issued by standing rates of committee Govt. Sindh vide NO.SCHEDULE/RATES-T(ii)/D.S/1476. Addendum & Corrigendum No.03 Dated 17th February 2022. No any Premium will be allowed on the items as per above Govt. Notification. The rate of difference in Cost of materials as approved by standing rates of committee Govt. Sindh will be paid only.					
Sr. No.	Item	Quantity	Unit	Rate taken from SoR notification dated 17-02-2022	Amount (Rs.)
1	Cement (Bags)	6067.25	P.Bags	325.00	1,971,857
2	Steel (Ton)	73.38	P.Ton	112000.00	8,218,328
3	Bricks (No.)	304077.82	%0 No.	3000.00	912,233
4	Stone Ballast (Cft)	2659.69	%Cft	1273.00	33,858
5	Hill Sand (Cft)	22773.56	%Cft	475.00	108,174
	Total of Difference of Material Cost				11,244,451

Contractor Sign & Stamp

CONSTRUCTION OF GUEST HOUSE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILL OF QUANTITIES						
PUBLIC HEALTH WORKS						
Rates Based on Composite Schedule of Rate (GENERAL-2012)						
SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
		SANITARY FIXTURES AND FITTINGS				
1	SOR(Water supply & Sewerage (Ch 1/5)	Providing and fixing European type white glazed earthen ware wash down W.C. pan complete with and l/c the cost of white/black plastic seat (Best quality) and lid with C.P.brass hineges and buffers, 3 gallons white glazed earthen ware low level foushing cistern with siphon fitting 1-1/2" dia white porcelain enamelled fluish bend 3/4" dia and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4. (Master, Sonex, Porta)	Each	21.00	11,477.40	241,025.40
2	SOR(Water supply & Sewerage (Ch 1/19-c)	Providing and fixing steel sinks stainless local make complete with cast iron or wrought iron brackets 6 inches built in wall, 1-1/2" c.p bubbler plug chrome plated brass chain, 1-1/2" c.p brass waste, with 1-1/2" 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. (c) Steel sink stainless sized 33" x 18" local make (Standard pattern) (Master or Equivalent)	Each	1.00	5,712.30	5,712.30
3	SOR(Water supply & Sewerage (Ch 6/19 (a)	Providing and fixing CP Muslim shower with double bib cock & ring pipe etc complete. (Master, Sonex, or Equivalent)	Each	21.00	3,432.00	72,072.00
4	SOR(Water supply & Sewerage (Ch 2/5)	Providing and fixing soap tray earthen ware with c.p screws etc.complete.	Each	21.00	497.20	10,441.20
5	SOR(Water supply & Sewerage (Ch 2/1 (iii-b)	Providing and fixing chrome plated brass towel rail complete with brackets fixing with 1" long c.p brass screws. (iii) Towel Rail 24" long (b) 3/4" dia round or square (Superior Quality)	Each	21.00	1,082.95	22,741.95
6	SOR(Water supply & Sewerage (Ch 2/2 (b)	Providing and fixing c,p brass toilet paper holder of standard size with chrome plated brass brackets complete (Similar to twyforde design No 1108) (b) Superior Quality	Each	21.00	1,071.40	22,499.40
7	SOR(Water supply & Sewerage (Ch 1/22	Providing and fixing (1/2") dia, lead connection complete with a (1/2") dia brass stop cock, two brass nuts & lining jointed to lead pipe with plumber wiped solder joints (1/2" lead pipe to be of not less than 4lbs per lineal yard. (Master, Sonex, or Equivalent)	Each	65.00	689.70	44,830.50
8	SOR(Water supply & Sewerage (Ch 10/1 (i)	Providing and fixing 6" x 4" C.C gully trap with 4" outlet complete with 4" thick 1:2:4 C.C for bed & 1/2" thick cement plaster (1:3) to the karb. C.I grating 6" x 6' C.I cover and frame 12" x 12" (inside) etc complete. Earthan ware glazed Gully trap 6" x 6" x 4" with C.I cover & Frame.	Each	7.00	1,220.67	8,544.69
9	SOR (PHE works) Part-B (II) A-2	Providing and laying R.C.C. pipe & collors of class "B" and fixing in trench i/c cutting,fitting and jointing with maxphalt composition and cement mortar (1:1) i/e. testing with water to a head of 22.5 meter or 76 ft. (e) 300mm (12") i/d	P.Rft	500.00	543.75	271,875.00
10	SOR (PHE works) Part-B (III) A-1	Excavation for pipeline in trechches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint and holes and disposal of surplus earth within a one chain as directed by engineer incharge.Providing fence guards, lights, flags and temperory crossings for non-vehicular traffic where ever required lift upto 5ft. (1.52 m) and lead upto one chain (30.5 m).	1000 Cft	4,500.00	3,600.00	16,200.00
11	Ch/1/13 (d)	Earth work compaction (Soft, ordinary or hard soil). (d) Ramming earth work (All types of soil).	1000 Cft	4,500.00	453.75	2,041.88

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
12	Ch/1/9 (a)	Rehandling of earth work. (a) Lead upto a single throw of Kassi, Phawrah or a = Shovel.	1000 Cft	4,500.00	756.25	3,403.13
13	SOR(Water supply & Sewerage (Ch 6/4 (iv)	Providing and fixing full way gun metal peet/gate valve with wheels, threaded or flabged ends with rubber washing.(iv) 1-1/4" (Light pattern) (Kitz. Audco or Equivalent)	Each	8.00	337.92	2,703.36
14	SOR(Water supply & Sewerage (Ch 6/4 (v)	Providing and fixing full way gun metal peet/gate valve with wheels, threaded or flabged ends with rubber washing.(v) 1-1/2" (Light pattern) (Kitz. Audco or Equivalent)	Each	8.00	695.42	5,563.36
		MANHOLE				
15	VI-B (ii) P (1)	Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067 mm) depth waith walls of BB in cement sand mortar 1:3 cement plastered 1:3, 1/2" thick. Inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 1-1/2' x 1-1/2' (457 x 457mm) of 1.75 cwt. (88.9 Kg) embaded in plain C.C 1:2:4 and fixing 1"(25mm) dia MS steps 6" (150 mm) wide projecting 4" (102mm) from the face of wall at 12" (305mm) C/C duly painted etc. Complete as per Standard specification and drawing.	Job	10.00	14,748.00	147,480.00
16	SOR (Water supply & Sanitary works) Ch 1-13	Providing & fixing 22"x 16" lavatory basin in white glazed earthen ware complete with & i/c the cost of W.I or C.I cantilever brackets 6 inches built into walls, painted white in 2 coats after a primary coat of red lead paint, a pair of 1/2" rubber plug & chrome brass waste of approved pattern 1-1/4" dia malleable iron or CP brass trap, malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connection &making good in cement concrete 1:2:4 (Foreign or Equivalent) (Master, Sonex, or Equivalent)	Each	22.00	6,237.00	137,214.00
17	SOR (Water supply & Sanitary works) Ch 6-14 (b)	Providing and fixing, wash hand basin mixture of superior quality with CP head 1/2' dia. (Master, Sonex, or Equivalent)	Each	23.00	3,179.00	73,117.00
18	SOR (Water supply & Sanitary works) Ch 1-20	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 without a vent arm complete with & i/c making requisite number of holes in walls, plinth & floor for pipe connections & making good cement concrete 1:2:4.	Each	75.00	2,042.43	153,182.25
19	SOR (Water supply & Sanitary works) Ch 1-26 (b)	Providing and fixing 24"x 18" bavelled edge mirror of belgium glass complete with 1/8' thick hard board and c.p screws fixed to wooden pleat. (Superior Quality)	Sft	21.00	2,376.00	49,896.00
		VALVES				
20	SOR (Water supply & Sanitary works) Ch 6-5	Providing and fixing handle valves (China) 16bars or equivalent complete in all respects as approved by the engineer incharge.				
	ii	3/4 inch	Each	16.00	271.92	4,350.72
	i	1/2 inch	Each	12.00	200.42	2,405.04
21	SOR (Water supply & Sanitary works) Ch 6-6 (iv)	Providing, fixing and testing PPRC ball valve 32mm , (with unsoldered copper ball) made to B.B.S 1212.	Each	4.00	510.84	2,043.36
22	SOR (Water supply & Sanitary works) Ch 6-6 (v)	Providing, fixing and testing PPRC ball valve 40mm , (with unsoldered copper ball) made to B.B.S 1212.	Each	6.00	573.70	3,442.20

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CONSTRUCTION OF GUEST HOUSE SHAIKH AYAZ UNIVERSITY SHIKARPUR

BILL OF QUANTITIES

PUBLIC HEALTH WORKS

Non-Scheduled Items

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
1	NSI	UPVC Multi Floor Trap (110x75mm) including strainer; making required number of connections; breaking concrete or masonry work & then making it good; etc. of approved make. (Master, Sonex, or Equivalent)	Each	15.00		
2	NSI	Providing, Fixing Dadex Class D or equivalent UPVC clean out with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure complete including, rubber gasket and clamp. (Dadex, Popular or Equivalent)	Each	4.00		
3	NSI	Providing and fitting "P" trap:ii) 10 cm (4") glazed.	Each	21.00		
4	NSI	Providing and fixing Wall Shower complete in all respects as approved by the Engineer incharge. (Master, Sonex, or Equivalent)	Each	21.00		
5		<u>WATER SUPPLY PIPES AND FITTINGS</u>				
		P/F Polypropylene Random copolymer (PPRC) PN-20 pipe with fusion / threaded joints including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Popular /Beta or equivalent) complete in all respect.				
	i	1 1/2" (40 mm) dia.	Rft	160.00		
	ii	1" (25 mm) dia.	Rft	360.00		
	iii	2" (50 mm) dia.	Rft	210.00		
	iv	3/4" (20 mm) dia.	Rft	770.00		
6		<u>SOIL, WASTE, VENTILATING PIPES & FITTINGS</u>				
		Providing , fixing and testing UPVC Nikasi type "B" with solution of same quality make including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Popular/Beta or equivalent) complete in all respect.				
	i	100 mm (4") dia.	Rft	530.00		
	ii	80 mm (3") dia.	Rft	550.00		
		<u>GAS GESYER</u>				
7	NSI	Providing and Fixing Sui Gas Geyser 50 gallon capacity comprising of internal tank of G.I sheet 14-SWG and External M.S sheet 22-SWG covering with proper foot rests dully enamel painted, 4" thick heigh density glass wool insulation with proper warranty with thermostat temperature gauge including fixing and making connection at site etc. complete in all respects as approved by the Engineer Incharge. (Ambassador/Firex/Exquire)	No	2.00		
8	NSI	Providing and fixing Gate valve 1 bars, RUV(itly) or equivalent complete in all respects as approved by the Engineer incharge.	Each	2.00		
9	NSI	Providing and fixing Gate valve 2 bars, RUV(itly) or equivalent complete in all respects as approved by the Engineer incharge.	Each	4.00		
Total of Non Scheduled ITEMS						

CONSTRUCTION OF GUEST HOUSE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILL OF QUANTITIES						
ELECTRICAL WORKS						
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh						
Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1		DISTRIBUTION BOARDS				
		(General Description) Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 440 V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects metion in BOQ or not required for performing completely. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineering or equivalent as per instructions by engineer incharge				
		(General Description) All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of ABB, Schneider or equivalent as per instructions by engineer incharge				
i)		Main Distribution Board				
		INCOMMING				
a	ELECT SH-X(208)	Providing and fixing circuit breaker 125,150,200 & 225 amps TP(XS-225NS) on prepared board as required.	Per No.	1	25541	25,541
b	ELECT SH-XV(273)	Providing and fixing of current transformer of ration 300/5 amps (round) RLC-30 as required or as per instructed as EI.	Per No.	3	1686	5,058
c	ELECT SH-XVI(285)	Providing and fixing voltmeter size 96/96mm 500 volt as required and as instruction of EI.	Per No.	3	999	2,997
d	ELECT SH-X(203)	Providing and fixing circuit breaker 6,10,15,20,30,40,50 & 63 amps SP(TB-5S) on prepared board as required.	Per No.	3	916	2,748
		OUTGOING				
e	ELECT SH-X(203)	Providing and fixing circuit breaker 6,10,15,20,30,40,50 & 63 amps SP(TB-5S) on prepared board as required.	Per No.	40	916	36,640
f	ELECT SH-X(207)	Providing and fixing circuit breaker 15,20,30,40,50, 75 & 100 amps TP(XS-100NS) on prepared board as required.	Per No.	4	9226	36,904
ii)		DISTRIBUTION BOARD DB-Lighting GF. FF				
		INCOMMING				
a	ELECT SH-X(207)	Providing and fixing circuit breaker 15,20,30,40,50, 75 & 100 amps TP(XS-100NS) on prepared board as required.	Per No.	2	9226	18,452
b	ELECT SH-XV(269)	Providing and fixing of current transformer of ration 60/5 amps (round) RLC-30 as required or as per instructed as EI.	Per No.	6	1191	7,146
c	ELECT SH-XVI(285)	Providing and fixing voltmeter size 96/96mm 500 volt as required and as instruction of EI.	Per No.	6	999	5,994
d	ELECT SH-X(203)	Providing and fixing circuit breaker 6,10,15,20,30,40,50 & 63 amps SP(TB-5S) on prepared board as required.	Per No.	6	916	5,496
		OUTGOING				
e	ELECT SH-X(203)	Providing and fixing circuit breaker 6,10,15,20,30,40,50 & 63 amps SP(TB-5S) on prepared board as required.	Per No.	41	916	37,556
f	ELECT SH-X(206)	Providing and fixing circuit breaker 15,20,30,40,50 & 60 amps TP(XES-100CB(CS)) on prepared board as required.	Per No.	2	5521	11,042
iii)		DISTRIBUTION BOARD DB-FF Power				
		INCOMMING				
a	ELECT SH-X(207)	Providing and fixing circuit breaker 15,20,30,40,50, 75 & 100 amps TP(XS-100NS) on prepared board as required.	Per No.	1	9226	9,226
b	ELECT SH-XV(270)	Providing and fixing of current transformer of ration 100/5 amps (round) RLC-30 as required or as per instructed as EI.	Per No.	3	1191	3,573
c	ELECT SH-XVI(285)	Providing and fixing voltmeter size 96/96mm 500 volt as required and as instruction of EI.	Per No.	3	999	2,997

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CONSTRUCTION OF GUEST HOUSE FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR

BILL OF QUANTITIES

ELECTRICAL WORKS

Non-Scheduled Items

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1		DISTRIBUTION BOARDS				
		(General Description) Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 440V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects metion in BOQ or not required for performing completely. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineering or equivalent as per instructions by engineer incharge				
		(General Description) All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of ABB, Schneider or equivalent as per instructions by engineer incharge				
i)		Main Distribution Board				
		INCOMING				
		03 No Digital Ammeter scaled 0-300 Amps of appropriate sizes.				
		03 Nos. R-Y-B indication lamps.				
		05 Nos.copper bus bars 225 Ampere,three phase,Earth and Netural for distrubitions with appropriate size DB BOX				
		02 Nos Phase Rotation/failure, (adjustable under/over voltage threshold),50/60Hz, 0.1~10 Sec Delay, 380~500V				
	NSI	02 No Thermostatically controlled 230 Volts robust exhaust fans 6"/8" dia. to be installed on front of MDB for hot air exhaust including cost of thermostat ON-OFF switches wire mesh and all necessary accessories / wiring, complete in all respects.	Job	1		
ii)		DISTRIBUTION BOARD DB-Lighting GF, FF				
		INCOMING				
		03 No Digital Ammeter scaled 0-500 Amps of appropriate sizes.				
		03 Nos. R-Y-B indication lamps.				
	NSI	05 Nos.copper bus bars 40Ampere,three phase,Earth and Netural for distrubitions with appropriate size DB BOX	Job	2		
iii)		DISTRIBUTION BOARD DB-FF power				
		INCOMING				
		03 No Digital Ammeter scaled 0-500 Amps of appropriate sizes.				
		03 Nos. R-Y-B indication lamps.				
	NSI	05 Nos.copper bus bars 150 Ampere,three phase,Earth and Netural for distrubitions with appropriate size DB BOX	Job	1		
		Each Bus bar is 300*12*2 mm.				
2		LIGHT FIXTURES				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		(General Description) Supply, installation, testing and commissioning of following light fittings, ceiling, recessed, wall mounted as per specified fixture. Complete with internal wiring, Grounding terminal, driver complete in all respects. Lights should be of Phillips, ledvance or equivalent		303		
i)	NSI	14 Watt 4t luxline LED wall/Ceiling mounted Light Fixture, IP-22 rated	No.	4		
ii)	NSI	20 Watt LED Light Fixture surface/recessed mounted, IP-22 rated	No.	193		
iii)	NSI	15 Watt (Warm) LED Light Fixture surface/recessed mounted, IP-22 rated	No.	41		
iv)	NSI	15 Watt (White) LED Light Fixture surface/recessed mounted, IP-22 rated	No.	23		
v)	NSI	10 Watt LED Light Fixture surface/recessed mounted, IP-22 rated	No.	42		
3		MISCELLANEOUS FITTINGS				
		(General Description) Supply, installation, testing & commissioning of Ceiling/ Exhaust fan. The ceiling/exhaust fan shall comprise circular fan metallic/ plastic body, metallic fan blades, down rod (if necessary) of suitable dia & length, AC capacitor, internal wiring, terminals all installation & operational accessories as per tender specifications, as per site requirements and as per instructions by the Engineer. make GFC, Pak Fan, Royal Fan or approved equivalent.		54		
i)	NSI	12 " outer dia exhaust fan with plastic body, fan blades and louvers	No.	22		
ii)	NSI	Providing and Fixing of brass ceiling fan 56" (good quality)	No.	31		
iii)	NSI	Providing and Fixing of brass bracket fan 18" (good quality)	No.	1		
4		WIRING ACCESSORIES				
		(General Description) Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of T.J, Legrand or approved equivalent.				
i)	NSI	10 Amps, 250Volts one way, One gang light control switches including appropriate size concealed Plastic back box.	No.	3		
ii)	NSI	10 Amps, 250Volts one way, Two gang light control switches including appropriate size concealed Plastic back box.	No.	23		
iii)	NSI	10 Amps, 250Volts one way, Three gang light control switches including appropriate size concealed Plastic back box.	No.	4		
iv)	NSI	10 Amps, 250Volts one way, Four gang light control switches including appropriate size concealed Plastic back box.	No.	26		
v)	NSI	10 Amps, 250Volts one way, Six gang light control switches including appropriate size concealed Plastic back box.	No.	4		
vi)	NSI	15 Amps, 250Volts, universal 5 in 1 switched socket unit including appropriate size Plastic back box.	No.	93		
vii)	NSI	20 Amps Double Pole(DP) switch with neon indication lamp complete including appropriate size Plastic back box.	No.	28		
viii)	NSI	45 Amps Double Pole(DP) switch with neon indication lamp complete including appropriate size Plastic back box.	No.	1		
xi)	NSI	Fan Dimmer 250 watt with switch including appropriate size Plastic back box. with all associated accessories.	No.	31		
x)	NSI	Appropriate size of plastic body fan box and ceiling fan rod 24" in length	Nos	31		
xi)	NSI	MS BAR for hanging Ceiling fan	Nos	31		
5		LT CABLES				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		(General Description) Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description) in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of Newage, Fast cable, Universal cables or equivalent and conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge				
i)	NSI	Providing and laying (main or Sub Main) Pvc insulated, Pvc sheathed with 4 core copper conductor 600/1000 volts size 16mm ²	Rmtr	100		
ii)	NSI	Providing and laying (main or Sub Main) Pvc insulated, Pvc sheathed with 4 core copper conductor 600/1000 volts size 35mm ²	Rmtr	50		
iii)	NSI	Providing and laying (main or Sub Main) Pvc insulated, Pvc sheathed with 4 core copper conductor 600/1000 volts size 120mm ²	Rmtr	100		
6		GROUNDING SYSTEM				
i)		GROUNDING cable				
a	NSI	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- 19/1.32 mm (19/0.052")	rmtr	30		
b	NSI	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- 6 mm sq (7/0.044")	rmtr	100		
c	NSI	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- 16 mm sq (7/0.064")	rmtr	50		
ii)		Plate type earthing				
	NSI	Providing & fixing of Plate type Earthing compressed with execvated hole 6"up 63 feet, GI pipe 2"(50mm)with Tees , Sockets , Endcap of 60 (RFT) Copper Plate of 1/2"x 2"x 48", 2x 70mmsq S/Core copper bare conductor 125 (Rft) Earth Connection Point of 1200 x 50 x 50mm (L x W x T) Inspection Pit of 300 x 300 x 450 mm (L x W x D) completed with all respect	No.	1		
iii)		Grounding Connection Point				
	NSI	Supply of Grounding connecting points consisting of copper plate 300mm long x50mm wide x 6mm thick to be installed, complete with fixing arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to facilitate connections of Incoming copper strips / copper conductors.	Nos.	1		
iv)		Testing and commissiong				
	NSI	Testing and commissioning of the earthing system in the presence of site engineer with electronic devices such as megger etc, making so report with after approximating 3 time testing and the grounding ohm must be less than or upto 3 ohms	Nos.	1		
7		CIVIL WORKS				
i)		Trench (for LT Cable)				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	NSI	Labour for excavation and refilling of trench 12" wide, 24" deep 9" sand compaction below and above in preinstalled PVC pipes, ramming watering all necessary material, labour etc, complete in all respect. Actual length of the trench shall be as per site condition and paid accordingly however approximate length of trench is given.	R.Mtr	100		
ii)		Manhole For LT Cable Pulling (If Required)				
	NSI	Construction of manholes to facilitate pulling of cables in trench or conduit as shown on drawing, manholes shall be of the size 24" x 24" x 30" deep with 9" thick wall with cement mortar, internal plaster 1:4, 100mm thick RCC cover for manhole, including cost of all accessories / materials, complete in all respects. (Tentative number of manholes have been provided, however payment shall be made as per actual and as per quantity requirement)	Nos.	1		
iii)		Conduit				
		Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials, conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.				
a	NSI	20 mm i/d	R.Mtr	50		
b	NSI	25 mm i/d	R.Mtr	500		
8		CCTV System				
i		Camera Cable				
	NSI	Supply, installation, Testing and commissioning of CAT 6a UTP CABLE IN PVC PIPE Ø 1"; MEASUREMENT IN METERS complete in all respects.including cost of conduit and its accesories installing arrangment, making jurries in wall and repairment of wall. Made of D-Link or equivalent approved by engineer incharge	R.Mtr	390		
9		DATA NETWORKING SYSTEM				
i)		Data Network point				
	NSI	Wiring for each data/computer point with UTP, 4 pair Cat 6a (500 Mhz) Network Cable supports (10 Giga) laid in PVC Conduit , with pure copper conductor PVC insulated PVC sheathed including cost of Single Shutter Face palte with UTP Cat-6a Keystone Jack with Back Box to be installed on walls, from Data Cabinet to Computer Points, PVC conduit & Cable tray. including cost of conduit and its accesories installing arrangment, making jurries in wall and repairment of wall. cable should be made of D-link(NCB-6AUGRYR-305) or equivalent & conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.	Points	28		
ii)		Networking Switch				
a	NSI	Supply, installation testing and commisioning of 24 port layer 2 network switch 10/100/1000 MBPS with 04 giga SFP uplink ports, switching capacity 56 GBPS, rack mounted to be instaled in data cabinitt, complete in all respect. Make cisico / HP / D-Link or equivalent (specification as per dgs-1210-28p) as per instructions by Engineer Incharge	Nos.	1		
b	NSI	Supply, installation, testing and commisioning of 24 port POE switch of following specification 24 × 100 Mbps PoE ports, and 2 × 1000 Mbps combos. IEEE 802.3at/af standard. IEEE 802.3, IEEE 802.3u and IEEE 802.3x standard. High priority ports. 8-core power supply. Upstream port link aggregation. Up to 250 m transmission distance. 6 KV surge protection for PoE ports. PoE power management. 100 Mbps network access make dahua DH-PFS4226-24ET-240 or equivalent as per instructions by engineer incharge	Nos	1		
iii)		Data Cabinets				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		(General Description) Supply at site, installation, testing and commissioning of data cabinet of approximate size as mentioned below, powder coated, having lockable glass door at front, 2 exhaust fans on top, suitable for under mentioned patch panels, consisting of the following data points to be terminated on modular patch panel, including cost of power bus bar, suitable for Cat. 6a cables patch guides, patch cords for Data points, all necessary accessories / materials for active and passive equipment. The data cabinet shall be complete in all respects including cost of all necessary materials / accessories required for proper functioning for the data cabinet. Data cabinet shall be installed after obtaining necessary permission from the computer specialist of the Client. made of Matrix, d-link or equivalent as per instructions by site engineer				
a	NSI	Data Cabinet 6U 368 x 570 x 390 mm Wall Mounted Imported made of M.S sheet,Powder Coated, having lockable glass door at front,double section , fans on top,to accomodate UTP Cat-6a, 24 port patch panel, UTP Cat-6a Patch Cords 1 meter length, Cable Manager, OFDF, Six socket Power distribution Unit.	Nos.	1		
b	NSI	Supply, installation, testing and commisioning of DATA RACK 27U 600x 800; PREFORATED; 01x FIX, 01x SLIDING TRAYS; 04 FANS; 1x 06 WAY ALL PDU;, complete in all respects.	Nos.	1		
iv)		Patch Panel				
	NSI	Supply, installation, testing and commisioning of PATCH PANEL 24 PORT Fully LOADED WITH Cat-6 I/Os SUITABLE FOR CAT-VI UTP CABLE; RACK MOUNT , complete in all respects.made of D-Link(NPP-C61BLK241)	Nos.	2		
v)		Cable Manager				
	NSI	Supply, installation, testing and commisioning of MS CABLE MANAGER/ORGANISER RACK MOUNT , complete in all respects. 19"1U Metal cable Management with rings. Made of D-Link(NCM-M01) or equivalent approved by site engineer	Nos.	2		
vi)		Faceplate				
	NSI	Supply, installation, testing and commisioning of single Faceplate Accepts Two Keystone Jacks with Shutter & ID Plate- 86*86 mm - White Colour - Square with Cat6 UTP 180 ° Punch Down Keystone Jack - White Colour and Back Box for Dual Shutter Face/Plate. Plastic(D35xH85xW85 CM), complete in all respects. made of D-Link(NFP-0WHI21)+(NKJ-C6WHI1B21) or equivalent as per instructions by site engineer	Nos.	28		
vii)		Fiber Optic Cable				
		(General Description) Supply at site, installation, testing and commissioning of the following Fiber Optic Cables to be installed in conduits, cable trays and dura duct including cost of all necessary accessories/ materials complete in all respect including cost of conduit and its accesories installing arrangment, making jurries in wall and repairment of wall. Cable should be made of D-Link or equivalent & conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.				
	NSI	12 Core Multimode (50/125um) OM2 Unitube Armoured Outdoor Fiber Cable - HDPE Sheath in meters D-Link(NCB-FM50O-AUHD-12)	R.Mtr	50		
viii)		Patch Cord				
	NSI	Supply, installation, testing and commisioning of LC-SC Multimode (50/125um) OM2 Duplex Patch Cord,3m, complete in all respects. Made of Dlink (NCB-FM50D-LCSC-3) or equivalent as per instructions by site engineer	Nos.	28		
ix)		6 port PDU				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	NSI	Supply, installation, testing and commissioning of 6 PORT IEC PDU, (6) IEC C19 OUTPUT & (1) IEC C20 INPUT PLUG 16A 240V PDU made of BayLan, serveredge or equivalent approved by site engineer	Nos.	2		
x)		Television point				
	NSI	Supply at site, installation, testing & commissioning of Wiring for each Television point with coaxial cable RG-6 1.0 MM (BLACK) CU CLAD, in 1" dia conduit partly shared, Network Cable pure copper conductor PVC insulated PVC sheathed including cost of Jack with Back Box to be installed on Walls, from booster to Television Points on walls, complete in all respect including cost of conduit and its accessories installing arrangement, making juries in wall and repairment of wall. cable should be made of D-link or equivalent & conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.	Nos	23		
xi)		Faceplate				
	NSI	Supply, installation, testing and commissioning of faceplate SINGLE SHUTTER/PORT WITH 1 gang tv outlet & BACK BOX , complete in all respects. Made of legrand or equivalent as per instructions by site engineer	Nos.	23		
		SECTION - N				
10		Fire Alarm System				
		(General Description) Supply, installation, testing and commissioning of following items as per drawings, specifications, & instructions of the Engineer, complete in all respect, all item should be of Gent by honeywell, ETON uk or approved equivalent as per instructions by the Engineer as required.				
i)		Manual Call Point				
	NSI	Supply, install testing and commsiong of manual call point RESET type with allied components with full functionality as per specification of manufacturer / drawing with proper staff and tools and plants etc. Input Source Zone signal Address Coding dip switch Operating Voltage 26V DC Alarm Current 6mA Quiescent Current 850µA Ambient Temperature 0°C ~ +50°C Material Fire-proof plastic	Each	4		
ii)		Smoke Detector				
	NSI	Supply, install testing and commsiong of Addressable Optical Smoke Detectors incorporating a with in the housing of the detector. Sensing of the detector shall be adjustable via software between 0-90 seconds. Address Coding Binary Alarm Current DC26V 6mA Standby Current DC26V 850µA Sensitivity Setting Comply to EN54 Ambient Temperature 0°C ~ +50°C Material Fire-proof plastic	Each	35		
iii)		Heat Detector				
	NSI	Supply, install testing and commsiong of Low profile intelligent analogue addressable multi sensor with combined optical thermal sensors in a single housing with dual LED for 360 deg. viewing and mounting base. Address Coding Binary Alarm Current DC26V 6mA Standby Current DC26V 850µA Sensitivity Setting Comply to EN54 Thermal Setting 58°C Ambient Temperature 0°C ~ +50°C Material Fire-proof plastic	Each	1		
iv)		Sounder				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
	NSI	Supply, install testing and commsiong of Intelligent analogue addressable Loop powered sounder with flasher and red body and wall mounting base.Input Source Zone signal Address Coding Binary dip switch Operating Voltage 26.5V DC Standby Current Under 850μA Alarm Current Under 8mA Sound Output 90 ±4dB at 1 meter Sounder Output 2.3~3.4KHz Ingress Protection IP65 Ambient Temperature -20°C ~ +50°C Ambient Humidity 10% ~ 95% Material Fire-proof plastic	Each	4		
v)		FACP				
	NSI	Supply, install, testing and commsiong of Addressable FACP. Each loop can connect up to 250 addressable devices. Maximum networking are 32 loops and total addressable points are 8000. Large LCD screen (40 x 15 lines) allows more events to be displayed on the same screen. Power 220V AC 50/60Hz *Others also available Battery Capacity 24V DC 4Ah Charging Voltage, Current 26V DC 100~400mA *With auto adjustment function Zone Voltage, Current 26.5V DC 340mA System Capacity 250 devices/1 loop *Expandable for site requirement Exterior Resistance Round-trip under 40Ω Transmitting Method Digital series transmitting Accumulation Time 0~40 seconds Main Sound 85dB @1M Material 1.6mm steel plate	Each	2		
vi)		Cable				
	NSI	Supply, install testing and commsiong of 2 x 2.5 mmsq shielded drain wire, 30 minutes fire resistance,red, LPCB approved, BS 7629-1/2008, BS 5839-1 standard in 25 mm dia pvc conduit complete in all respects including cost of conduit and its accesories installing arrangment, making jurries in wall and repairment of wall .(Newage, Pakistan Cable, Fast or approved equivalent). conduit should be of Dadex, Turkplast, Easyfit or equivalent as per instructions by engineer incharge.	Rmtr	940		
vii)		Programming, Testing and Commissioning				
	NSI	Programming, Testing and Commissioning of Complete system by authorized certified company complete in all respects as per instructions of the Engineer.	Job	1		
viii)		Fire Extinguishers				
	NSI	Supply & installation of 1 x 6kg DCP CO2 Fire Extinguishers installed as per instructions of Cleint, complete with wall hanging and mounting arrangement complete in all respects. Complete in all respect as per instructions by site engineer	Nos.	4		
Total of Non-Scheduled Items						

Name of Work: Construction of Guest House For The Project “ Provision of Missing Facilities For The Shaikh Ayaz University Shikarpur”.

Terms & conditions

- I. Approved quality or equivalent Cement will be used with the approval of Engineer In-charge With ASTM C -150 standard For Cement Quality.
- II. Only approved quality Sand will be used with the approval of Engineer In-charge. Refer ASTM C-33 Standard For Sand Quality.
- III. Only approved quality Crush stone will be used with the approval of Engineer In-charge. Refer ASTM C-33 Standard For Crush stone Quality.
- IV. Only approved quality Burnt Bricks will be used with the approval of Engineer In-charge. Refer ASTM C62 Standard For Sand Quality.
- V. Only approved quality Steel will be used with the approval of Engineer In-charge. Refer ASTM A-615 Standard For Steel Quality.
- VI. No cartage of any material arranged by the contractor himself /themselves will be paid in any shape.
- VII. Only clean water from the city supply, tube well installed at the site or from other sources approved by the Engineer In-charge shall be used in mixing concrete, Curing, Cleaning plant and tools. The water shall be tested according to B.S. 314. Contractors shall have to make their own arrangement of palatable water for use in work at his / their own cost.
- VIII. Concrete shall be mixed with mechanically operated Concrete Mixer with due concentration to aggregate and water ratio.
- IX. If any wherever nomenclature or any item is elaborated or not clear or any typographical error occurs in the schedule for the tender it should be read strictly as per composite schedule of rates issued by standing rates committee Govt. of Sindh.
- X. All material shall confirm the standard specifications.
- XI. No premium shall be allowed on non-scheduled items / offered rates.
- XII. All the debris and surplus stuff shall be removed from the site / disposed-off by the contractor for which no extra cost of cartage etc. shall be paid.
- XIII. All RCC / PCC cost in Situ shall be mechanically vibrated by the contractor for which no extra cost will be paid.
- XIV. All materials / mixes used in structure shall be tested from recognized laboratory and test report shall be submitted without any delay for which no extra cost etc. shall be paid.
- XV. Electricity used shall be the responsibility of contractor for which no extra cost etc. shall be paid. Camp office / material stock/Go down constructed at site shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVI. All workers within the execution area should wear protection helmets and full boots and ensure all safety & security measures for lives of labors / inhabitants shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVII. Deployment of full-time engineer at site shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVIII. Inspection request shall be submitted before 24 hrs. of execution of any new trade/activity.
- XIX. Pour slip to be submitted for approval of any CC and RCC work well before execution of pouring.
- XX. The contractor shall have to visit the site before filling the bidding documents.

Contractor's Signature

Contractor's Name: _____

Stamp:

CONSTRUCTION OF BOUNDARY WALL FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR
BILLS OF QUANTITIES
SUMMARY OF COST

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

Sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
a	Cost of Schedule Items	24,516,840
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
d	Difference of Cost of Material	10,938,560
TOTAL		
5% SST		
GRAND TOTAL WITH SST		

Amount in Words:

Contractor

Project Director (PMF)

CONSTRUCTION OF BOUNDARY WALL FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILLS OF QUANTITIES						
CIVIL WORKS						
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-1/18(b)	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft in Ordinary Soil.	%0Cft	61515.29	3176.25	195388
2	C-4/5(i)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering.(Mix 1:4:8)	%Cft	4825.69	11288.75	544760
3	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Foundation)	P.Cft	8822.81	337.00	2973288
4	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Ground Floor)	P.Cft	3147.44	337.00	1060687
5	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) U.P.L	P.Cft	2574.61	349.00	898539
6	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) G.F	P.Cft	6048.38	349.00	2110883
7	C-4/8(b)	Fabrication of mild steel reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) Using Tor bars.	P.Cwt	1179.52	5001.70	5899588
8	C-5/7-l(e)	Pacca brick work other than building including striking of joints upto 20 feet height in: (e) Cement sand mortar. 1:6 (Foundation)	%Cft	18748.08	12346.65	2314760
9	C-5/7-l(c)	Pacca brick work other than building including striking of joints upto 20 feet height in: (c) Cement sand mortar. 1:4	%Cft	22753.27	12899.70	2935103
10	C-9/11(c)	Cement plaster 1:4 Ground Floor:- c) ¾" (20 mm) thick. (External)	%Sft	90606.17	3015.76	2732465
11	C-9/34	Extra labour rate for making grooves of 1" x 1/4" or 3/4" x 1/2" plastered surface with true edges both vertically and horizontally with uniform depth and, with groove base smoothly finished etc. complete as per instruction of Engineer Incharge.	P.Rft	8299.00	7.71	63985
12	C-9/38A+38B	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick/ sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make. (New Coat + subsequent Coat) Ground Floor	%Sft	62959.61	1948.10	1226516
13	C-4/5(f)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering). (Mix 1:2:4)	%Cft	480.21	14429.25	69290
14	C-18/70	Vertical damp proof course of 3/4" thick cement plaster 1: 2 with bitumen at (20 Lbs. Per % Sft.)	%Sft	7345.94	2760.99	202821
15	C-4/7(ii)	Extra cost due to use of Hi Bond Pre-packaged Polymer Modified mortar (DHPMM) as an admixture in conrrete mix for increasing durability, to be used in concreting, flooring, block/ brick/ stone masonary or plastering as % by weight of cement.	P.Kg	86.78	459.80	39903

[illegible]

CONSTRUCTION OF BOUNDARY WALL FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILLS OF QUANTITIES						
CIVIL WORKS						
Non-Scheduled Items						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	NSI	Providing and fixing thermopore sheet 1-1/2 inch thickness of 35-D for construction joint purpose complete in all respect as approved & directed by the Engineer/ Incharge.	P.Sft	1095.00		
2	NSI	Providing & laying face work by using gutka 9" x 2-1/4"x2-1/4" of approved quality in cement sand surkhi mortar (1:1:3) i/c back filling 3/8" thick with 1:4 cement sand mortar making trapezoidal groove / set back of 1/4" depth during fresh masonry work laid with M.S flat for wall ties, one side embeded in the masonry work and other side in gutka at 12" center to center vertically and 36" center to center horizontally, racking out joints, curing and its removal, including carriage complete (contractor shall prepare samples at site) as approved by the engineer incharge.	P.Sft	27646.56		
3	NSI	Providing and fixing ornamental cement jalli 4" thick (1 : 2 : 4) with steel wire.	P.Sft	765.00		
Total of Non SOR ITEMS						

CONSTRUCTION OF BOUNDARY WALL FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR					
BILLS OF QUANTITIES					
CIVIL WORKS					
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh					
Note: Difference in cost of material is allowed as per Govt. Notification dated: 1-12-2021 issued by standing rates of committee Govt. Sindh vide NO.SCHEDULE/RATES-T(ii)/D.S/1476. Addendum & Corrigendum No.03 Dated 17th February 2022. No any Premium will be allowed on the items as per above Govt. Notification. The rate of difference in Cost of materials as approved by standing rates of committee Govt. Sindh will be paid only.					
Sr. No.	Item	Quantity	Unit	Rate taken from SoR notification dated 1-12-2021	Amount (Rs.)
1	Cement (Bags)	7440.16	P.Bags	325.00	2,418,053
2	Steel (Ton)	59.92	P.Ton	112000.00	6,710,978
3	Bricks (No.)	560268.20	%0No.	3000.00	1,680,805
4	Hill Sand (Cft)	27099.88	%Cft	475.00	128,724
	Total of Difference of Material Cost				10,938,560

Contractor Sign & Stamp

Name of Work: Construction of Boundary Wall For The Project “ Provision of Missing Facilities For The Shaikh Ayaz University Shikarpur”.

Terms & conditions

- I. Approved quality or equivalent Cement will be used with the approval of Engineer In-charge With ASTM C -150 standard For Cement Quality.
- II. Only approved quality Sand will be used with the approval of Engineer In-charge. Refer ASTM C-33 Standard For Sand Quality.
- III. Only approved quality Crush stone will be used with the approval of Engineer In-charge. Refer ASTM C-33 Standard For Crush stone Quality.
- IV. Only approved quality Burnt Bricks will be used with the approval of Engineer In-charge. Refer ASTM C62 Standard For Sand Quality.
- V. Only approved quality Steel will be used with the approval of Engineer In-charge. Refer ASTM A-615 Standard For Steel Quality.
- VI. No cartage of any material arranged by the contractor himself /themselves will be paid in any shape.
- VII. Only clean water from the city supply, tube well installed at the site or from other sources approved by the Engineer In-charge shall be used in mixing concrete, Curing, Cleaning plant and tools. The water shall be tested according to B.S. 314. Contractors shall have to make their own arrangement of palatable water for use in work at his / their own cost.
- VIII. Concrete shall be mixed with mechanically operated Concrete Mixer with due concentration to aggregate and water ratio.
- IX. If any wherever nomenclature or any item is elaborated or not clear or any typographical error occurs in the schedule for the tender it should be read strictly as per composite schedule of rates issued by standing rates committee Govt. of Sindh.
- X. All material shall confirm the standard specifications.
- XI. No premium shall be allowed on non-scheduled items / offered rates.
- XII. All the debris and surplus stuff shall be removed from the site / disposed-off by the contractor for which no extra cost of cartage etc. shall be paid.
- XIII. All RCC / PCC cost in Situ shall be mechanically vibrated by the contractor for which no extra cost will be paid.
- XIV. All materials / mixes used in structure shall be tested from recognized laboratory and test report shall be submitted without any delay for which no extra cost etc. shall be paid.
- XV. Electricity used shall be the responsibility of contractor for which no extra cost etc. shall be paid. Camp office / material stock/Go down constructed at site shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVI. All workers within the execution area should wear protection helmets and full boots and ensure all safety & security measures for lives of labors / inhabitants shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVII. Deployment of full-time engineer at site shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVIII. Inspection request shall be submitted before 24 hrs. of execution of any new trade/activity.
- XIX. Pour slip to be submitted for approval of any CC and RCC work well before execution of pouring.
- XX. The contractor shall have to visit the site before filling the bidding documents.

Contractor's Signature

Contractor's Name: _____

Stamp:

**CONSTRUCTION OF MAIN GATE AND WAITING AREA FOR THE SHAIKH AYAZ UNIVERSITY
SHIKARPUR**

BILLS OF QUANTITIES

SUMMARY OF COST

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

Sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
a	Cost of Schedule Items	4,826,503
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
d	Difference of Cost of Material	1,299,027
A - SUB TOTAL OF CIVIL WORKS		
2.	PUBLIC HEALTH WORKS	
a	Cost of Schedule Items	156,471
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
B - SUB TOTAL OF PHE WORKS		
3.	ELECTRIC WORKS	
a	Cost of Schedule Items	132,283
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
C. SUB TOTAL OF ELECTRICAL WORKS		
TOTAL (A+B+C)		
5% SST		
GRAND TOTAL WITH SST		

Amount in Words:

Contractor

Project Director (PMF)

CONSTRUCTION OF MAIN GATE AND WAITING AREA FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR

BILLS OF QUANTITIES

CIVIL WORKS

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-1/18(b)	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft in Ordinary Soil.	%0Cft	3151.55	3176.25	10010
2	C-18/92	Providing Anti -termmite treatment by spraying /sprinkling /spreading Neptachlar 0.5% Emulsion as an overall pre - construction treatment in slab type construction under the slab and along attached perches or entrances etc, complete as per directions of Engineer Incharge.	P.Sft	4098.90	9.74	39923
3	C-4/5(i)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without for all shuttering. (Mix 1:4:8)	%Cft	188.58	11288.75	21288
4	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Foundation)	P.Cft	584.37	337.00	196933
5	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Ground Floor)	P.Cft	727.51	337.00	245169
6	C-4/6 a-i +6 (d)	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (First Floor)	P.Cft	135.86	349.10	47428
7	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) UPL	P.Cft	229.50	349.00	80096
8	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) G.F	P.Cft	470.73	349.00	164285
9	C-4/6 a-ii +6 (d)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) F.F	P.Cft	32.64	361.10	11786
10	C-4/8(b)	Fabrication of mild steel reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removeal of rust from bars.) Using Tor bars	P.Cwt	169.70	5001.70	848785
11	C-5/4-l(e)	Pacca brick work in foundation and plinth in cement sand mortar 1:6.	%Cft	1316.59	11948.36	157311
12	C-1/21	Filling, watering and ramming earth in floors with surplus earth from foundation lead upto one chain and lift jupto 5 feet.	%0Cft	1050.52	1512.50	1589
13	C-1/22	Filling, watering and ramming earth under floor with new earth (Excavated from outside) lead upto one chain and lift upto 5 feet.	%0Cft	2560.99	3630.00	9296
14	C-5/5-l(d)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:5	%Cft	916.49	12902.08	118247
15	C-5/5-l(c)	Pacca brick work in Ground Floor cement, sand mortar Ratio 1:4	%Cft	19.13	13227.41	2530
16	C-5/5-l(d) + 6	Pacca brick work in First Floor cement, sand mortar Ratio 1:5	%Cft	347.12	13340.71	46308

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
17	C-5/5-I(d) + 6	Pacca brick work in Second Floor cement, sand mortar Ratio 1:5	%Cft	18.93	13915.46	2635
18	C-9/12(b)	Cement plaster 1:5 upto 12' height:- b) ½" (13 mm) thick. (Internal) Ground Floor	%Sft	1846.20	2241.80	41388
19	C-9/12(b)+29	Cement plaster 1:5 upto 12' height:- b) ½" (13 mm) thick. (Internal) First Floor	%Sft	618.12	2382.77	14728
20	C-9/12(b)+29	Cement plaster 1:5 upto 12' height:- b) ½" (13 mm) thick. (Internal) Second Floor	%Sft	71.40	2523.74	1802
21	C-9/12(c)	Cement plaster 1:5 upto 12' height:- c) ¾" (20 mm) thick. (Internal) Ground Floor	%Sft	188.70	2678.50	5054
22	C-9/11(c)	Cement plaster 1:4 upto 12' height:- c) ¾" (20 mm) thick (External) G.F	%Sft	1917.54	3015.76	57828
23	C-9/19(a)+29	Cement plaster 1:4 upto 12' height:- c) ¾" (20 mm) thick (External) F.F	%Sft	871.59	3156.73	27514
24	C-9/19(a)+29	Cement plaster 1:4 upto 12' height:- c) ¾" (20 mm) thick (External) S.F	%Sft	83.64	3297.70	2758
25	C-9/10(a)	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 12' height ratio 1:3. Ground Floor	%Sft	789.02	2225.12	17557
26	C-9/10(a)+29	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 12' height ratio 1:3. First Floor	%Sft	160.86	2366.09	3806
27	C-9/24(c)	Distempering:- New surface:- three coats	%Sft	3674.31	1079.65	39670
28	C-5/29	Supplying and filling sand under floor and plugging in walls.	%Cft	110.40	1141.25	1260
29	C-4/2	Dry rammed brick or stone ballast 1 1/2" to 2" gauge.	%Cft	110.40	3327.50	3674
30	C-4/5(f)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without for all shuttering.(Mix 1:2:4)	%Cft	55.87	14429.25	8062
31	C-7/18	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	358.68	717
32	C-18/83(a)	Supplying & fixing in position Aluminium channels framing for hinged doors or Alcop made with 5 mm thick tinted glass glazing (Belgium) and Alpha (Japan) locks l/c handles, stoppers etc. (a) Deluxe model (White)	P.Sft	99.96	1450.76	145018
33	C-17/2+3	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tands etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing including erection in position. (Main Gates + Side Gates)	P.Cwt	340.92	5199.53	1772642
34	C-11/5-(c)	Preparing surface and painting of doors and windows any type, (including edges).Three Coats.	%Sft	1175.04	2116.41	24869
35	C-18/84(a)	Supplying & fixing in position Aluminium channels framing for sliding windows & ventilators of Alcop made with 5 mm thick tinted glass glazing (Belgium) & Aluminium fly screen l/c handles stoppers & locking arrangement etc. complete. (a) Deluxe model (White).	P.Sft	106.08	1592.69	168953
36	C-17/26	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq . Foot of finished grill).	P.Sft	106.08	180.50	19147
37	C-18/69(a)	Damp Proof course with cement sand Ratio (1: 2) mixed with dampo b) 1-1/2" thick	%Sft	3.83	1934.82	74
38	C-7/13	Two coats of bitumen laid hot using 34 Lbs for % Sft. Ober roof and blinded with sand at one Cft. Per % Sft.	%Sft	1317.36	1887.40	24864
39	C-7/38	Providing and laying single per layer of polythene sheet 0.13 mm thick for water proffing as per specification and instructions of Engineer incharge.	P.Sft	1825.88	10.70	19537

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
40	C-4/7(ii)	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.	P.Kg	208.71	459.80	95965
41	C-8/74	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 80 (mm) of city / quddra / cobble shape with pigmented having strength b/w 5000 psi to 8500 psi l/c filling the joints with hill sand and laying in specified manner / pattern and design etc: complete.	P.Sft	765.00	248.17	189850
42	C-8/50	Mosaic tiles of white cement 12"x12"x1" of approved shade laid flat in 1:2 white cement mortar over a bed of 3/4" thick lime mortar 1:2.	%Sft	273.36	9314.99	25463.46
43	C-8/41	Mosaic dado or skirting one apart of white cement and two parts of marble chips laid over 1/2" thick plaster 1:3 complete with finishing 1/2" thick.	%Sft	53.52	11174.93	5980.76
44	C-9/38A+38 B	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick/ sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make. (New Coat + subsequent Coat)	%Sft	1857.18	1948.10	36179.75
45	C-7/40	Khapriel (Mangalore) Tiles 15" x 8" x 1-1/2" of approved designed/ shape laid flat in 1:2 gray cement mortar over a bed of 3/4" thick cement Mortar (1:2)	%Sft	1138.83	3645.65	41517.76
46	C-7/5	Single layer of tiles 9" x 4 1/2" x 2" laid over 4" earth 1" mud plaster without Bhoosa grouted with cement sand 1:3 on top of R.C.C slab provide with 34 Lbs. Bitumen coating sand blinded.	%Sft	508.52	5310.35	27,004.24
		Total of SOR ITEMS				4826503

CONSTRUCTION OF MAIN GATE AND WAITING AREA FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR**BILLS OF QUANTITIES****CIVIL WORKS****Non-Scheduled Items**

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	NSI	Providing and applying wall putty (Kansai or equivalent) two coats on plastered surface to prepare the surface even and smooth complete in all respect as approved and directed by the Engineer Incharge.	P.Sft	3674.31		
2	NSI	Providing and laying Ceramic Matt Tiles Texture Light color for flooring size 12"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the Engineer/ Incharge. (Premium Quality Tile, Equivalent)	P.Sft	61.20		
3	NSI	Providing and laying Ceramic Matt Tiles Texture Light color for skirting / dado size 12"x26"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respect as approved & directed by the Engineer/ Incharge. (Premium Quality Tile, Equivalent)	P.Sft	135.15		
4	NSI	Providing and fixing UPVC Doors 38mm thickness i/c delux matching color UPVC frame matt or glossy finish having color (white-Gray-Marble Gray-Oak Wood- Dard Oak Wood, Coffee Wood Honey Pine Wood-Mahagony-Marry Gold-Chocolate Brown-Honey Dew) i/c all accessories i/c mortice locks complete in all respect as approval by the Engineer Incharge.	P.Sft	35.70		
5	NSI	Providing & laying face work by using gutka 9" x 2-1/4"x2-1/4" of approved quality in cement sand surkhi mortar (1:1:3) i/c back filling 3/8" thick with 1:4 cement sand mortar making trapezoidal groove / set back of 1/4" depth during fresh masonry work laid with M.S flat for wall ties, one side embedded in the masonry work and other side in gutka at 12" center to center vertically and 36" center to center horizontally, racking out joints, curing and its removal, including carriage complete (contractor shall prepare samples at site) as approved by the engineer incharge.	P.Sft	1073.04		
6	NSI	Providing and fixing Stainless Steel (24 SWG) Letters with CNC laser cutting i/c all hardware required complete in all respect as per drawings and direction of Engineer In-charge.	Each	83.00		
7	NSI	Providing and fixing Stainless Steel Logo with colour print including the cost of fitting accessories complete in all respect as per drawings and approval of Engineer Incharge.	Each	1.00		
		Total of Non SOR ITEMS				

CONSTRUCTION OF MAIN GATE AND WAITING AREA FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR					
BILLS OF QUANTITIES					
CIVIL WORKS					
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh					
Note: Difference in cost of material is allowed as per Govt. Notification dated: 1-12-2021 issued by standing rates of committee Govt. Sindh vide NO.SCHEDULE/RATES-T(ii)/D.S/1476. Addendum & Corrigendum No.03 Dated 17th February 2022. No any Premium will be allowed on the items as per above Govt. Notification. The rate of difference in Cost of materials as approved by standing rates of committee Govt. Sindh will be paid only.					
Sr. No.	Item	Quantity	Unit	Rate taken from SoR notification dated 17-02-2022	Amount (Rs.)
1	Cement (Bags)	616.06	P.Bags	325.00	200,221
2	Steel (Ton)	8.62	P.Ton	112000.00	965,521
3	Bricks (No.)	40525.87	%0No.	3000.00	121,578
4	Hill Sand (Cft)	2168.80	%Cft	475.00	10,302
5	Stone Ballast (Cft)	110.40	%Cft	1273.00	1,405
	Total of Difference of Material Cost				1,299,027

Contractor Sign & Stamp

CONSTRUCTION OF MAIN GATE AT THE SHAIKH AYAZ UNIVERSITY, SHIKARPUR.

BILL OF QUANTITIES

PUBLIC HEALTH WORKS

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
		<u>SANITARY FIXTURES AND FITTINGS</u>				
1	V-B (Ch 1/5)	Providing and fixing European type white glazed earthen ware wash down W.C. pan complete with and l/c the cost of white/black plastic seat (Best quality) and lid with C.P.brass hineges and buffers, 3 gallons white glazed earthen ware low level foushing cistern with siphon fitting 1-1/2" dia white porcelain enamelled fluish bend 3/4" dia and making requiste number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	Each	1.00	11,477.40	11,477.40
2	V-B (Ch 1/2-A ii)	Providing and Fixing squatting type white glazed earthen ware w.c pan with front fresh inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls plinth & floor for pipe connection and making good in cement concrete 1:2:4. (A) W.C pan 23" & low level earthen ware flush tank 3 gallons. (ii) with 4" dia white glazed earthen ware trap and plastic thumble.	Each	1.00	5,772.80	5,772.80
3	V-B (Ch 6/19 (a)	Providing and fixing CP Muslim shower with double bib cock & ring pipe etc complete.	Each	2.00	3,432.00	6,864.00
4	V-B (Ch 2/5)	Providing and fixing soap tray earthen ware with c.p screws etc.complete.	Each	2.00	497.20	994.40
5	V-B (Ch 2/1 (iii-b)	Providing and fixing chrome plated brass towel rail complete with brackets fixing with 1" long c.p brass screws. (iii) Towel Rail 24" long (b) 3/4" dia round or square (Superior Quality)	Each	1.00	1,082.95	1,082.95
6	V-B (Ch 2/2 (b)	Providing and fixing c,p brass toilet paper holder of standard size with chrome plated brass brackets complete (Similar to twyford's design No 1108) (b) Superior Quality	Each	2.00	1,071.40	2,142.80
7	V-B (Ch 1/22	Providing and fixing (1/2") dia, lead connection complete with a (1/2") dia brass stop cock, two brass nuts & lining jointed to lead pipe with plumber wiped solder joints (1/2" lead pipe to be of not less than 4lbs per lineal yard.	Each	6.00	689.70	4,138.20
8	V-B (Ch 10/1 (i)	Providing and fixing 6" x 4" C.C gully trap with 4" outlet complete with 4" thick 1:2:4 C.C for bed & 1/2" thick cement plaster (1:3) to the karb. C.I grating 6" x 6' C.I cover and frame 12" x 12" (inside) etc complete. Earthan ware glazed Gully trap 6" x 6" x 4" with C.I cover & Frame.	Each	2.00	1,220.67	2,441.34
9	V-B (Ch 10/2 (e)	Providing R.C.C. pipe with collar class 'B' and digging the trenches to required depth & fixing inposition including cutting, fitting and jointing with maxphalt composition & cement mortar and testing with water pressure a head of 4 feet above the top of the highest pipe & refilling with excavating shaft. i) 300 mm (12") i/d	P.Rft	100.00	401.97	40,197.00

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
10	IV-III-A (1)	Excavation for pipeline in trechches, and pits in soft soils i/c trimming and dressing sides to true allignment and shape levelling of beds of trenches to correct level and grade, cutting joint and holes and disposal of surplus earth within a one chain as directed by engineer incharge.Providing fence guards, lights, flags and temperory crossings for non-vehicular traffic where ever required lift upto 5ft. (1.52 m) and lead upto one chain (30.5 m).	1000 Cft	900.00	3,600.00	3,240.00
11	Ch/1/13 (d)	Earth work compaction (Soft, ordinary or hard soil). (d) Ramming earth work (All types of soil).	1000 Cft	900.00	453.75	408.38
12	Ch/1/9 (a)	Rehandling of earth work. (a) Lead upto a single throw of Kassi, Phawrah or a = Shovel.	1000 Cft	900.00	756.25	680.63
13	V-B (Ch 6/4 (iv)	Providing and fixing full way gun metal peet/gate valve with wheels, threaded or flabged ends with rubber washing.(iv) 1-1/4" (Light pattern)	Each	1.00	337.92	337.92
14	V-B (Ch 6/4 (v)	Providing and fixing full way gun metal peet/gate valve with wheels, threaded or flabged ends with rubber washing.(v) 1-1/2" (Light pattern)	Each	1.00	695.42	695.42
15		MANHOLE				
16	VI-B (ii) P (1)	Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067 mm) depth waith walls of BB in cement sand mortar 1:3 cement plastered 1:3, 1/2" thick. Inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 1-1/2' x 1-1/2' (457 x 457mm) of 1.75 cwt. (88.9 Kg) embaded in plain C.C 1:2:4 and fixing 1"(25mm) dia MS steps 6" (150 mm) wide projecting 4" (102mm) from the face of wall at 12" (305mm) C/C duly painted etc. Complete as per Standard specification and drawing.	Job	3.00	14,748.00	44,244.00
17	SOR (Water supply & Sanitary works) Ch 1-13	Providing & fixing 22"x 16" lavatory basin in white glazed earthen ware complete with & i/c the cost of W.I or C.I cantilever brackets 6 inches built into walls, painted white in 2 coats after a primary coat of red lead paint, a pair of 1/2" rubber plug & chrome brass waste of approved pattern 1-1/4" dia malloable iron or CP brass trap, malloable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connection &making good in cement concrete 1:2:4 (Foreign or Equivalent)	Each	2.00	6,237.00	12,474.00
18	SOR (Water supply & Sanitary works) Ch 6-14 (b)	Providing and fixing, wash hand basin mixture of superior quality with CP head 1/2' dia.	Each	2.00	3,179.00	6,358.00
19	SOR (Water supply & Sanitary works) Ch 1-20	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 gratting without a vent arm complete with & i/c making requisite number of holes in walls, plinth & floor for pipe connections & makinggood cement concrete 1:2:4.	Each	4.00	2,042.43	8,169.72

SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
20	SOR (Water supply & Sanitary works) Ch 1-26 (b)	Providing and fixing 24"x 18" bavelled edge mirrorof belgium glass complete with 1/8' thick hard board and c.p screws fixed to wooden pleat. (Superior Quality)	Sft	2.00	2,376.00	4,752.00
Total of SOR ITEMS						156,470.95

CONSTRUCTION OF MAIN GATE AT THE SHAIKH AYAZ UNIVERSITY, SHIKARPUR.						
BILL OF QUANTITIES						
PUBLIC HEALTH WORKS						
Non-Scheduled Items						
SR. NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
1	NSI	UPVC Multi Floor Trap (110x75mm) including strainer; making required number of connections; breaking concrete or masonry work & then making it good; etc. of approved make.	Each	2.00		
2	NSI	Providing, Fixing Dadex Class D or equivalent UPVC clean out with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure complete including, rubber gasket and clamp.	Each	1.00		
3	NSI	Providing and fitting "P" trap:ii) 10 cm (4") glazed.	Each	2.00		
4		WATER SUPPLY PIPES AND FITTINGS				
	NSI	P/F Polypropylene Random copolymer (PPRC) PN-20 pipe with fusion / threaded joints including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Popular /Beta or equivalent) complete in all respect.				
	i	1" (25 mm) dia.	Rft	70.00		
	ii	2" (50 mm) dia.	Rft	55.00		
	iii	3/4" (20 mm) dia.	Rft	95.00		
5		SOIL, WASTE, VENTILATING PIPES & FITTINGS				
	NSI	Providing , fixing and testing UPVC Nikasi type "B" with solution of same quality make including the cost of all specials/ accessories i.e elbow, bend, sockets etc. (Popular/Beta or equivalent) complete in all respect.				
	i	100 mm (4") dia.	Rft	70.00		
	ii	80 mm (3") dia.	Rft	50.00		
		VALVES				
6	NSI	Providing and fixing handle valves 16bars or equivalent complete in all respects as approved by the engineer incharge.				
	i	3/4 inch	Each	2.00		
	ii	1/2 inch	Each	2.00		
Total of Non Scheduled ITEMS						

CONSTRUCTION OF MAIN GATE & WAITING AREA FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR

BILL OF QUANTITIES

ELECTRICAL WORKS

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1		DISTRIBUTION BOARDS				
		(General Description) Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 440V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects metion in BOQ or not required for performing completely. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineeering or equivalent as per instructions by engineer incharge				
		(General Description) All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of ABB, Schneider or equivalent as per instuctions by engineer incharge				
		INCOMMING				
	ELECT SH-X(207)	Providing and fixing circuit breaker 15,20,30,40,50, 75 & 100 amps TP(XS-100NS) on prepared board as required.	Per No.	1	9226	9,226
	ELECT SH-XV(270)	Providing and fixing of current transformer of ration 100/5 amps (round) RLC-30 as required or as per instructed as EI.	Per No.	3	1191	3,573
	ELECT SH-XVI(285)	Providing and fixing voltmeter size 96/96mm 500 volt as required and as instruction of EI.	Per No.	3	999	2,997
		OUTGOING				
	ELECT SH-X(203)	Providing and fixing circuit breaker 6,10,15,20,30,40,50 & 63 amps SP(TB-5S) on prepared board as required.	Per No.	10	916	9,160
	ELECT SH-X(206)	Providing and fixing circuit breaker 15,20,30,40,50 & 60 amps TP(XES-100CB(CS)) on prepared board as required.	Per No.	1	5521	5,521
2		WIRING IN CONCEALED CONDUITS				
i)		Distribution board to Switch				
		(General Description) Wiring of light circuit from Distribution Board to switch,with Three nos. single core 2.5 Sqmm PVC insulated 450/750 volts grade stranded copper conductor cables in concealed PVC conduits (conduits partly shared) including PVC conduit, and conduit accessories etc. Cable should be of Newage, Fast cable, copper gate or equivalent and conduit should be of Solo,popular,easyfit or equivalent as per instructions by engineer incharge				
	ELECT SH-I(24)	Providing and laying (main or Sub Main Pvc insulated with 3-7.29 copper conductor in 3/4" dia PVC conduit recessed in the wall or column as required.	Rmtr	120	294.00	35,280
ii)		Switch to light point				
		(General Description) Wiring from switch to light or fan point with 3 nos. single core 1.5 Sqmm PVC insulated 450/750 Volts grade stranded copper conductor cables in concealed PVC conduit including PVC conduit, Conduit accessories,etc.(conduit partly shared).				
a	ELECT SH-II(124)	Wiring of Light and fan point with 3.29 Pvc insulated wire in 20mm (3/4") dia PVC conduit recessed in the wall or column as required.	Per/Point	17	1,130.00	19,210
		Point to point wiring				

[illegible]

CONSTRUCTION OF MAIN GATE & WAITING AREA FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR

BILL OF QUANTITIES

ELECTRICAL WORKS

Non-Scheduled Items

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
1		DISTRIBUTION BOARDS				
		(General Description) Supply at site, fabrication, installation, testing and commissioning of Distribution Board (DB) , made of sheet steel 16 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved colour, protection classification IP-44, totally enclosed indoor floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation lables on MCCBS, grounding bar suitable for system Voltage 440 V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper, including cost of cable terminal blocks wiring from breakers, brass cable glands, all accessories complete in all respects metion in BOQ or not required for performing completely. All incoming and outgoing breakers shall be accessible only by opening the front door having further M.S. sheet cover gaskets shall also be provided where necessary. Panel should be compeltely made in certified factory. ie PEL, Green T & D, Mazcorp engineering or equivalent as per instructions by engineer incharge.				
		(General Description) All MCCBs shall be suitable to operate without any derating at 40°C ambient temperature and shall be of one make only. The sides of MDB shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. item should be of ABB, Schneider or equivalent as per instructions by engineer incharge				
		INCOMING				
		03 No Digital Ammeter scaled 0-500 Amps of appropriate sizes.				
		03 Nos. R-Y-B indication lamps.				
	NSI	05 Nos.copper bus bars 40 Ampere,three phase,Earth and Netural for distrubitions with appropirate size DB BOX	Job	1		
		Each Bus bar is 300*12*2 mm.				
2		LIGHT FIXTURES				
		(General Description) Supply, installation, testing and commissioning of following light fittings, ceiling, recessed,wall mounted as per specified fixture. Complete with internal wiring, Grounding terminal , driver complete in all respects. Lights should be of Phillips, ledvance or equivalent				
i)	NSI	20 Watt LED Light Fixture surface/recessed mounted, IP-22 rated	No.	15		
ii)	NSI	10 Watt LED Flood Light surface/recessed mounted	No.	2		
iii)	NSI	10 Watt LED Light Fixture surface/recessed mounted, IP-22 rated	No.	2		
3		LT CABLES				
		(General Description) Supply at site, installation, testing and commissioning of PVC insulated armoured copper conductor cable 600 / 1000 Volt grade (or otherwise mentioned in cable description) in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the Engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed. Cable should be of Newage, Fast cable, copper gate or equivalent and conduit should be of Solo,popular,easyfit or equivalent as per instructions by engineer incharge				
	NSI	Providing and laying (main or Sub Main) Pvc insulated, Pvc sheathed with 4 core copper conductor 600/1000 volts size 16mm2	Rmtr	10		
4		MISCELLANEOUS FITTINGS				

Sr. No.	Item No.	Description	Unit	Qty	Unit Rate (Rs.)	Total Amount (Rs.)
		(General Description) Supply, installation, testing & commissioning of Ceiling/ Exhaust fan. The ceiling/exhaust fan shall comprise circular fan metallic/ plastic body, metallic fan blades, down rod (if necessary) of suitable dia & length, AC capacitor, internal wiring, terminals all installation & operational accessories as per tender specifications, as per site requirements and as per instructions by the Engineer. make Bilal Switchgear Engineering, GFC, Pak Fan or approved equivalent.				
i)	NSI	12 " outer dia exhaust fan with plastic body,fan blades and louvers	No.	2		
ii)	NSI	Providing and Fixing of brass ceiling fan 56" (good quality)	No.	4		
5		WIRING ACCESSORIES				
		(General Description) Supply at site, installation, testing and commissioning of the following wiring accessories, complete in all respects. Made of TJ or legrand, or equivalent				
i)	NSI	10 Amps, 250Volts one way, Two gang light control switches including appropriate size concealed Plastic back box.	No.	5		
ii)	NSI	10 Amps, 250Volts one way, Six gang light control switches including appropriate size concealed Plastic back box.	No.	1		
iii)	NSI	15 Amps, 250Volts, universal 5 in 1 switched socket unit including appropriate size Plastic back box.	No.	7		
iv)	NSI	Fan Dimmer 250 watt with switch including appropriate size Plastic back box. with all associated accessories.	No.	4		
v)	NSI	Appropriate size of plastic body fan box and ceiling fan rod 24" in length	Nos	4		
vi)	NSI	MS BAR for hanging Ceiling fan	Nos	4		
6		GROUNDING SYSTEM				
i)		GROUNDING cable				
	NSI	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaidd G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- 6 mm sq (7/0.044")	rmtr	5		
ii)		Plate type earthing				
	NSI	Providing & fixing of Plate type Earthing compressed with execveted hole 6"up 63 feet,G.I pipe 2"(50mm)with Tees , Sockets , Endcap of 60 (RFT) Copper Plate of 1/2"x 2"x 48", 2x 70mmsq S/Core copper bare conductor 125 (Rft) Earth Connection Point of 1200 x 50 x 50mm (L x W x T) Inspection Pit of 300 x 300 x 450 mm (L x W x D) completed with all respect	No.	1		
iii)		Grounding Connection Point				
	NSI	Supply of Grounding connecting points consisting of copper plate 300mm long x50mm wide x 6mm thick to be installed, complete with fixing arrangement, brass nuts bolts, washers, lugs, 12.5mm dia. holes to facilitate connections of Incoming copper strips / copper conductors.	Nos.	1		
iv)		Testing and commissioning				
	NSI	Testing and commissioning of the earthing system in the presence of site engineer with electronic devices such as megger etc, making so report with after approximating 3 time testing and the grounding ohm must be less than or upto 3 ohms	Nos.	1		
7		CIVIL WORKS				
i)		Trench (for LT Cable)				
	NSI	Labour for excavation and refilling of trench 12" wide, 24" deep 9" sand compaction below and above in preinstalled PVC pipes, ramming watering all necessary material, labour etc, complete in all respect. Actual length of the trench shall be as per site condition and paid accordingly however approximate length of trench is given.	R.Mtr	10		
ii)		Manhole For LT Cable Pulling (If Required)				
	NSI	Construction of manholes to facilitate pulling of cables in trench or conduit as shown on drawing, manholes shall be of the size 24" x 24" x 30" deep with 9" thick wall with cement mortar, internal plaster 1:4, 100mm thick RCC cover for manhole, including cost of all accessories / materials, complete in all respects. (Tentative number of manholes have been provided, however payment shall be made as per actual and as per quantity requirement)	Nos.	1		
Total of Non Scheduled ITEMS						

CONSTRUCTION OF MONUMENT FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR
BILLS OF QUANTITIES
SUMMARY OF COST

Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh

Sr. No.	DESCRIPTION	AMOUNT
1.	CIVIL WORKS	
a	Cost of Schedule Items	573,118
b	Add/ Deduct % above/ below on Scheduled Items	
c	Cost of Non-Schedule Items	
d	Difference of Cost of Material	358,616
TOTAL		
5% SST		
GRAND TOTAL WITH SST		

Amount in Words:

Contractor

Project Director (PMF)

CONSTRUCTION OF MONUMENT FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILLS OF QUANTITIES						
CIVIL WORKS						
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	C-1/18(b)	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft in Ordinary Soil.	%0Cft	677.34	3176.25	2,151.41
2	C-18/92	Providing Anti -termmite treatment by spraying /sprinkling /spreading Neptachlar 0.5% Emulsion as an overall pre - construction treatment in slab type construction under the slab and along attached perches or entrances etc, complete as per directions of Engineer Incharge.	P.Sft	376.13	9.74	3,663.46
3	C-4/5(i)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without for all shuttering.(Mix 1:4:8)	%Cft	98.75	11288.75	11,147.50
4	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Foundation)	P.Cft	238.68	337.00	80,435.16
5	C-4/6 a-i	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Ground Floor)	P.Cft	50.82	337.00	17,126.20
6	C-4/6 a-i +6 (d)	R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (First Floor)	P.Cft	152.23	349.10	53,142.79
7	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) UPL	P.Cft	21.66	349.00	7,561.02
8	C-4/6 a-ii	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3). G.F	P.Cft	97.49	349.00	34,024.57
9	C-4/6 a-ii +6 (d)	Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1.5: 3) F.F	P.Cft	30.60	361.10	11,049.66
10	C-4/8(b)	Fabrication of mild steel reinforcement for cement concrete including cutting,bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) Using Tor bars	P.Cwt	48.71	5001.70	243,640.45
11	C-5/4-I(e)	Pacca brick work in foundation and plinth in cement sand mortar 1:6.	%Cft	351.53	11948.36	42,002.56
12	C-5/5-I(d) + 6	Pacca brick work in First Floor cement, sand mortar Ratio 1:5	%Cft	134.26	13340.71	17,910.90
13	C-9/11(c)	Cement plaster 1:4 Ground Floor upto 12' height:- c) ¾" (20 mm) thick. (External)	%Sft	248.81	3015.76	7,503.62
14	C-9/11(c)+29	Cement plaster 1:4 First Floor upto 12' height:- c) ¾" (20 mm) thick. (External)	%Sft	570.56	3156.73	18,011.12
15	C-9/34	Extra labour rate for making grooves of 1" x 1/4" or 3/4" x 1/2" plastered surface with true edges both vertically and horizontally with uniform depth and, with groove base smoothly finished etc. complete as per instruction of Engineer Incharge.	P.Rft	101.75	7.71	784.45

Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
16	C-9/10(a)+29	Cement plaster 3/8" thick under soffit or R.C.C. roof slab only upto 12' height ratio 1:3. First Floor	%Sft	106.65	2366.09	2,523.46
17	C-5/29	Supplying and filling sand under floor and plugging in walls.	%Cft	29.62	1141.25	338.05
18	C-4/2	Dry rammed brick or stone ballast 1 1/2" to 2" gauge.	%Cft	29.62	3327.50	985.63
19	C-4/5(f)	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without for all shuttering.(Mix 1:2:4)	%Cft	14.99	14429.25	2,162.93
20	C-9/38A+38 B	Preparing the surface and painting with weather coat l/c rubbing the surface with rubbing brick/ sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make. (New Coat + subsequent Coat)	%Sft	174.42	1948.10	3,397.88
21	C-4/7(ii)	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.	P.Kg	1.66	459.80	764.32
22	C-17/2+3	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tanks etc. including cutting, tanks etc. including cutting, drilling rivetting, handling assembling and fixing including erection in position. (Box Top)	P.Cwt	2.12	5199.53	11036
23	C-11/5-(c)	Painting new surfaces:- (d) Preparing surface and painting guard bars, gates of iron bars, gratings, railings (including standards braces, etc). and similar open work. 3 coats.	%Sft	138.06	1270.83	1754
		Total of SOR ITEMS				573,117.86

CONSTRUCTION OF MONUMENT FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR						
BILLS OF QUANTITIES						
CIVIL WORKS						
Non-Scheduled Items						
Sr. No.	Item No.	Description of Item	Unit	Qty	Rate	Amount
1	NSI	Providing and fixing 3/4" thick pre-polished Black Granite full width area above 2 Sft laid in white cement matching pigment 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment, making gola on exposed edges complete in all respect as approved by the Engineer/ Incharge.	P.Sft	938.95		
2	NSI	Providing and fixing Stainless Steel (24 SWG) Letters with CNC laser cutting i/c all hardware required complete in all respect as per drawings and direction of Engineer In-charge.	Each	116.00		
3	NSI	Providing and fixing Stainless Steel Logo with colour print including the cost of fitting accessories complete in all respect as per drawings and approval of Engineer Incharge.	Each	4.00		
		Total of Non SOR ITEMS				

CONSTRUCTION OF MONUMENT FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR					
BILLS OF QUANTITIES					
CIVIL WORKS					
Rates Based on Composite Schedule of Rate (GENERAL-2012) Sindh					
Note: Difference in cost of material is allowed as per Govt. Notification dated: 1-12-2021 issued by standing rates of committee Govt. Sindh vide NO.SCHEDULE/RATES-T(ii)/D.S/1476. Addendum & Corrigendum No.03 Dated 17th February 2022. No any Premium will be allowed on the items as per above Govt. Notification. The rate of difference in Cost of materials as approved by standing rates of committee Govt. Sindh will be paid only.					
Sr. No.	Item	Quantity	Unit	Rate taken from SoR notification dated 17-02-2022	Amount (Rs.)
1	Cement (Bags)	150.47	P.Bags	325.00	48,904
2	Steel (Ton)	2.47	P.Ton	112000.00	277,149
3	Bricks (No.)	9917.17	%0No.	3000.00	29,752
4	Hill Sand (Cft)	512.57	%Cft	475.00	2,435
5	Stone Ballast (Cft)	29.62	%Cft	1273.00	377
	Total of Difference of Material Cost				358,616

Contractor Sign & Stamp

**Name of Work: Construction of Main Gate, Waiting Area and Monument For The Project “
Provision of Missing Facilities For The Shaikh Ayaz University Shikarpur”.**

Terms & conditions

- I. Approved quality or equivalent Cement will be used with the approval of Engineer In-charge With ASTM C -150 standard For Cement Quality.
- II. Only approved quality Sand will be used with the approval of Engineer In-charge. Refer ASTM C-33 Standard For Sand Quality.
- III. Only approved quality Crush stone will be used with the approval of Engineer In-charge. Refer ASTM C-33 Standard For Crush stone Quality.
- IV. Only approved quality Burnt Bricks will be used with the approval of Engineer In-charge. Refer ASTM C62 Standard For Sand Quality.
- V. Only approved quality Steel will be used with the approval of Engineer In-charge. Refer ASTM A-615 Standard For Steel Quality.
- VI. No cartage of any material arranged by the contractor himself /themselves will be paid in any shape.
- VII. Only clean water from the city supply, tube well installed at the site or from other sources approved by the Engineer In-charge shall be used in mixing concrete, Curing, Cleaning plant and tools. The water shall be tested according to B.S. 314. Contractors shall have to make their own arrangement of palatable water for use in work at his / their own cost.
- VIII. Concrete shall be mixed with mechanically operated Concrete Mixer with due concentration to aggregate and water ratio.
- IX. If any wherever nomenclature or any item is elaborated or not clear or any typographical error occurs in the schedule for the tender it should be read strictly as per composite schedule of rates issued by standing rates committee Govt. of Sindh.
- X. All material shall confirm the standard specifications.
- XI. No premium shall be allowed on non-scheduled items / offered rates.
- XII. All the debris and surplus stuff shall be removed from the site / disposed-off by the contractor for which no extra cost of cartage etc. shall be paid.
- XIII. All RCC / PCC cost in Situ shall be mechanically vibrated by the contractor for which no extra cost will be paid.
- XIV. All materials / mixes used in structure shall be tested from recognized laboratory and test report shall be submitted without any delay for which no extra cost etc. shall be paid.
- XV. Electricity used shall be the responsibility of contractor for which no extra cost etc. shall be paid. Camp office / material stock/Go down constructed at site shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVI. All workers within the execution area should wear protection helmets and full boots and ensure all safety & security measures for lives of labors / inhabitants shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVII. Deployment of full-time engineer at site shall be the responsibility of contractor for which no extra cost etc. shall be paid.
- XVIII. Inspection request shall be submitted before 24 hrs. of execution of any new trade/activity.
- XIX. Pour slip to be submitted for approval of any CC and RCC work well before execution of pouring.
- XX. The contractor shall have to visit the site before filling the bidding documents.

Contractor's Signature

Contractor's Name: _____

Stamp: