CONSTRUCTION OF 16x SECURITY PICKETS AT DAANISH SCHOOLS (BOYS & GIRLS) CHISHTIAN, DISTRICT BAHAWALNAGAR.

BALANCE WORK AT RISK & COST OF ORIGINAL CONTRACTOR.

DNIT/ B.O.Q

Sr#	Description	Balance Work as Per Original Contract 1st Bi-Annual 2016				As per Balance Work on 1st Bi-Annual 2022				Rate to be quoted by the contractor	
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Rate	Amount
STANDARDIZED ITEMS (MRS. 1st Biannual 2022 District Bahawalnagar)											
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and rammiing lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in ordinary soil.	285.9	%oCft	5,222.19	1493	285.9	%oCft	8,727.85	2495		
2	Filling, watering and ramming earth under floors with surplus earth from foundation, etc.	1728.0	%oCft	2495.40	4312	1728.0	%oCft	4197.60	7253		
3	Filling, watering and ramming earth under floors with new earth excavated from outside, lead upto one mile.	208.0	%oCft	4,810.13	1001	208.0	%oCft	9,110.55	1895		
4	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge mixed with 25% sand.	216.8	%Cft	3658.96	7933	216.8	%Cft	4474.80	9701		
5	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth Ratio 1:6:18	153.2	%Cft	8741.81	13392	153.2	%Cft	12661.50	19397		
6	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 C (nominal ~~mix 1:~~ 2: 4)	367.2	P-Cft	316.64	116270	367.2	P-Cft	471.80	173245		

Quantity Surveyor
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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Rate	Amount
7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (includes removal of rust from bars) Deformed bars (Grade-40)	1106.0	%Kgs	10946.25	121066	1106.0	%Kgs	25941.95	286918		
8	Pacca brick work in cement, sand mortar other than building Ratio 1:4 upto 10' height	728.0	%Cft	17340.9	126242	728.0	%Cft	23378.15	170193		
9	Pacca brick work in ground floor cement, sand mortar Ratio 1:6	116.9	%Cft	17023.68	19901	116.9	%Cft	23112.15	27018		
10	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Resi 11-14.m bitumen coating sand blinded i/c one layer of polythene sheet 500 guage										
	First Floor Roof	199.3	%Sft	6686.71	13327	199.3	%Sft	8441.55	16824		
11	Providing and laying conglomerate flooring (two coat work) with top layer of ½"(13mm) thick wearing surface, consisting of one part of cement and 2 parts of stone chips passing 3/16"(6 mm) sieve, over bottom layer of cement concrete 1:3:6, including surface finishing and dividing in panels:- (a) 1½"(40 mm) thick i/c rubbing and polishing.										
	Ground Floor	1184.0	%Sft	5,044.20	59723	1184.0	%Sft	6,049.75	71629		
	First Floor	32.0	%Sft	5,416.03	1733	32.0	%Sft	7,568.85	2422		

MUHAMMAD AKHTAR
Sub Engineer (Civil)
Punjab Daanish School (Boys & Girls)
Chishtian District Bahawalnagar

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Sr#	Description	Balance Work as Per Original Contract 1st Bi-Annual 2016				As per Balance Work on 1st Bi-Annual 2022				Rate to be quoted by the contractor	
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Rate	Amount
12	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Size 1½" x 3/8" (40 x 10 mm)	832.0	P-Rft	6.89	5732	832.0	P-Rft	15.85	13187		
13	Cement plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick i/c bitumen coating 20lbs	360.4	%Sft	2558.64	9221	360.4	%Sft	4076.80	14693		
14	Cement plaster 1:5 upto 20' (6.00 mm) height:- b) ½" (13 mm) thick	515.8	%Sft	1486.81	7669	515.8	%Sft	2488.80	12837		
15	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. b) 1:3	316.1	%Sft	1772.57	5603	316.1	%Sft	2955.85	9343		
16	Distempering new surface three coats	11520.0	%Sft	359.68	41435	11520.0	%Sft	1150.30	132515		
17	White Washing new surface three coats	3152.0	%Sft	240.01	7565	3152.0	%Sft	531.50	16753		
18	Cement pointing struck joints, on walls, upto 20' (6.00 m) hiehgt:- a) ratio 1:2 i/c red oxide pigment	6817.5	%Sft	1957.7	133466	6817.5	%Sft	2816.90	192042		
19	Providing and fixing windows consisting of M.S. box section frame 2"x1½", (50x40mm) leaves frame 1½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" (10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat and screws including grill of M.S. flat ½"x1/8" (13x3mm) or ¼"x¼" (6x6mm) square bar with independent frame of ½"x½" (13x13mm) box section of 16 SWG i/c all C.P. fitting and painting 3 coats complete in all respect.	104.0	P-Sft	477.21	49630	104.0	P-Sft	1365.75	142038		

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Rate	Amount
20	Providing Termite proofing of building by spraying anti termite liquid with water by spraying 1 liter chemical mixed with 40 liter water and spraying this mixture over an area of 175-Sft using Anti Termite Chemical of Biflex/ Dursban/ Mirage, applying with pressure pump, the contractor will provide guarantee for 10-years. (Payment is subject to production of certificate from Biflex/ Dursban/ Mirage or equivalent) complete in all respect as approved & directed by the Engineer Incharge	6240.0	P-Sft	5.74	35818	6240.0	P-Sft	9.95	62088		
21	Cast iron rain water downpipe fixed in position, excluding heads and shoes, but including painting and clamps, etc. 3" dia (75 mm) cast iron down pipe.	255.5	P-Rft	188.94	48274	255.5	P-Rft	252.30	64463		
22	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	22.0	Each	503.12	11069	22.0	Each	726.50	15983		
23	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting 4" dia	22.0	Each	319.56	7030	22.0	Each	413.00	9086		
24	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only).										
	i) Single core 3/0.74 mm (3/0.029")	300	P.Rft	11.06	3318	300	P.Rft	20.95	6285		
	ii) Twin core 3/0.91 mm (3/0.036")	75	P.Rft	25.82	1937	75	P.Rft	17.75	1331		

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Rate	Amount
25	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc.										
	i) 10 x 10 cm (4"x4")	16	Each	143.98	2304	16	Each	224.65	3594		
	ii) 17.5 x 10 cm (7"x4")	32	Each	190.98	6111	32	Each	311.10	9955		
26	Supply and erection of switches 5 Amp. piano type	160	Each	32.66	5226	160	Each	60.70	9712		
27	Supply and erection of 3 pin. 5 Amp wall socket.	32	Each	70.06	2242	32	Each	106.10	3395		
28	Supply and erection of 3 pin switch and plug combined, recessed type. 10/15 Amp	16	Each	96.92	1551	16	Each	113.30	1813		
29	Supply and erection of button holder backelite large size	48	Each	29.11	1397	48	Each	45.35	2177		
30	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook, placed at the time of casting of slab.	16	Each	36.41	583	16	Each	57.15	914		
31	Supply and erecting of energy saver 23-watt Philips i/c holder complete in all respect.	80	Each	260.83	20866	80	Each	380.00	30400		
32	S/E Ceiling Fans of approved manufacturer.	16	Each	3129.9	50078	16	Each	6840.00	109440		
33	P/F Bracket Fan 18" sweep of approved manufactures i/c making Electric connection upto 1-meter length with existing point complete in all respect.	16	Each	2399.59	38393	16	Each	5500.00	88000		

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		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Rate	Amount
34	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete 5" (100 mm) i/d										
	i) from 0 to 100' depth	200.0	P.Rft	136.78	27356	200.0	P.Rft	483.80	96760		
	ii) from 100' to 120' depth	40.0	P.Rft	230.41	9216	40.0	P.Rft	810.70	32428		
35	Providing and installing P.V.C. strainer B.S.S. Class `D' , in tubewell bore hole, including sockets and solvent, etc complet 1½" i/d (40 mm)	20.0	P-Rft	61.66	1233	20.0	P-Rft	136.60	2732		
36	Providing and installing P.V.C. blind pipe, in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete. B.S.S. Class 'B' working pressure 4" dia	180.0	P-Rft	186.44	33559	180.0	P-Rft	418.35	75303		
37	Providing and installing P.V.C. blind pipe, in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete.										
	i) B.S.S. Class 'D' 1-1/2" dia	220.0	P-Rft	64.48	14186	220.0	P-Rft	136.60	30052		
	ii) B.S.S. Class 'D' 1-1/4" dia	40.0	P-Rft	52.90	2116	40.0	P-Rft	111.30	4452		
38	Providing and installing P.V.C. Bail/End plug, in tubewell bore hole B.S.S. Class 'D' 1½" i/d (40 mm)	2.0	Each	49.87	100	2.0	Each	72.00	144		

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Sr#	Description	Balance Work as Per Original Contract 1st Bi-Annual 2016				As per Balance Work on 1st Bi-Annual 2022				Rate to be quoted by the contractor	
		Qty	Unit	Rate	Amount	Qty	Unit	Rate	Amount	Rate	Amount
	Non-Standardized Item										
39	Providing and fixing goldamatic pump with 15 meter suction and 15 meter head and one BHP motor i/c making connections complete in all respect.	2.0	Each	10433.00	20866	2.0	Each	25000.00	50000		
	Sub Total				**1091543**				**2032918**		
	Add 5% PRA Tax								**101646**		
	Grand Total Rs.				**1091543**				**2134564**		
	Say in Millions				**1.092**				**2.135**		

Note : (i) B.O.Q is based on rates for 1st Bi-annual 2022 i.e. from Ist January, 2022 to June 30th, 2022
(ii) In case of any ambiguity regarding rate, MRS/ Input rates of Finance Department displayed on web-site for 1st Bi-annual 2022 i.e. from January 1st, 2022 to June 30th, 2022, District Bahawalnagar shall be followed.

Cost as per Original Contract = 1.092 (m)
Cost as per Current Rates = 2.033 (m)
Difference = **0.941 (m)**

DNIT Approved for Rs. 2.135 (m)

Sub Engineer (Civil)
DS (B & G) Chishtian

Principal
DS (Boys) Chishtian

Quantity Surveyor
PDS&CEA, Lahore

Chief Quantity Evaluator
PDS&CEA, Lahore

Deputy Manager (Engg)
PDS&CEA, Lahore

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INFRASTRUCTURE DEVELOPMENT & MAINTENANCE WORKS AT DAANISH SCHOOL (BOYS & GIRLS) CHISHTIAN DISTRICT BAHAWALNAGAR

i. Re-Construction of Fallen Boundary Wall of Boys Campus
ii. Strengthening of Tilted Boundary Wall of Girls Campus

DNIT/ B.O.Q

S#	Description	QTY	Unit	Rate	Amount	Rate to be quoted by the contractor	
						Rate	Amount
1	Dismantling brick work in lime or cement mortar.	5940	%Cft	3500.65	207939		
2	Excavation in foundation of buildings and other structure i/c dagbelling dressing around structure with excavated earth watering and ramming lead upto one chain and lift upto 5ft in ordinary soil.	14695	%Cft.	8727.85	128,256		
3	P/L of cement concrete brick or stone ballast 1-1/2" to 2" guage 1:4:8	1616	%Cft.	16698.30	269,845		
4	Pacca brick owkr in foundation and plinth in cement sand mortar ratio 1:6	5351	%Cft.	21322.20	1,140,951		
5	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect ratio (1:2:4)	2667	P.Cft.	350.30	934,250		
6	Reinforced cement concrete in roof slab, beams, columns, linters, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect ratio (1:1 1/2:3)	1222	P.Cft.	471.80	576,540		
7	Fabrication of mild steel reinforcement for cement conc; i/c cutting bending laying in position making joints and fastenings for binding wire and labour charges for bending of steel reinforcement (also includes removal of rust from bars Deformed bars Grade 60)	14428	%Kg.	26331.65	3,799,130		
8	Pacca brick work on other than building upto 10' height in cement sand mortar ratio 1:5	5868	%Cft.	22710.95	1,332,679		

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S#	Description	QTY	Unit	Rate	Amount	Rate to be quoted by the contractor	
						Rate	Amount
9	Pacca brick work in cement sand mortar 1:6 other than building upto 10' height	658	%Cft	22209.40	146,138		
10	P/L 3/4" thick vertical DPC of cement sand mortar (1:3) with 2-coats of bitumen	8000	%Sft.	4985.30	398,824		
11	1/2" thick cement plaster ratio 1:4 upto 20' height	7824	%Sft.	2591.50	202,759		
12	Cement pointing struck joints, on walls, upto 20' (6.00 m) hiehgt ratio 1:2 with red oxide pigment	7824	%Sft.	3388.40	265,108		
13	Filling watering ramming earth under floor earth surplus earth excavation from foundation	9796	%oCft.	4197.60	41,120		
14	Filling watering ramming earth under floor with new earth excavated from outside lead upto one chain	11984	%oCft.	9110.55	109,181		
	TOTAL AMOUNT				**9552718**		
	Add 5% PRA				**477636**		
	Grand Total				**10030354**		
	Say Rs.				**10.030m**		
	D/d of old cradet material				-469433		
	Net Total				9,560,921		

Note : (i) B.O.Q is based on rates for 1st Bi-annual 2022 i.e. from Ist January, 2022 to June 30th, 2022

(ii) In case of any ambiguity regarding rate, MRS/ Input rates of Finance Department displayed on web-site for 1st Bi-annual 2022 i.e. from January 1st, 2022 to June 30th, 2022, District Bahawalnagar shall be followed.

DNIT approved for Rs. 10.030m.

Sub-Engineer
DS Chishtian

Principal
Daanish School (Boys)
Chishtian

Quantity Surveyor
PDS-CEA

Chief Quantity Evaluator
PDS-CEA

Deputy Manager (Engg)
PDS-CEA

General Manager (Engg)
PDS-CEA

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