SHAHEED BENAZIR BHUTTO UNIVERSITY
BENAZIRABAD

BILL OF QUANTITIES

PACKAGE NO 3

CONSTRUCTION OF ACADEMIC BLOCK-III

ESS.I.AAR

Suite No. 314, 3rd Floor Mashriq Centre, Sir Shah Sulaiman Road, Gulshan-e-Iqbal, Karachi
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BILL OF QUANTITIES

CONSTRUCTION OF ACADEMIC BLOCK-III

AT

SHAHEED BENAZIR BUTTO UNIVERSITY SHAHEED BENAZIRABAD

COST SUMMARY						
S.No	DESCRIPTION	SCHEDULE ITEM	ADD % ABOVE / BELOW ON SCHEDULE ITEMS		NON SCHEDULE ITEM	TOTAL AMOUNT
1	CIVIL WORKS	66,670,770	_____%			
2	PLUMBING WORKS	535,601	_____%			
3	ELECTRICAL WORKS	4,746,118	_____%			
4	FIRE ALARM SYSTEM, CCTV SYSTEM		_____%			
5	FIREFIGHTING		_____%			
6	BORING	208,002	_____%			
	TOTAL COST	**72,160,491**				
	GRAND TOTAL COST					

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PLANNING ENGG. ARCHITECTURAL & SERVICES CONSULTANT
ESS.I.AAR
314, Nashiq Centre
S.S.Suleman Road
Gulshan-e-Iqbal
Karachi

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BILL OF QUANTITIES OF
CONSTRUCTION OF ACADEMIC BLOCK-III
AT
SHAHEED BENAZIR BUTTO UNIVERSITY SHAHEED BENAZIRABAD

CIVIL WORKS

Ref. No. / NSI	Item no	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
		SCHEDULE ITEM				
SECTION - 1 EARTH WORK						
S.No. 18 (c) /P-4	1.1	Excvation in foundation of building bricks and other structure i/c dag belling dressing refilling arround the structure with excvated earth watering and ramming lead upto 5 ft. (c) In hard soil or soft murum.	124554	%oCft	3554.38	442,711
S.No. 21/P-4	1.2	Filling, watering and ramming earth in floor with surplus earth from foundation lead upto the one chain and lift upto 5 ft. (for plinth)	39980	%0Cft	1512.50	60,470
S.No. 22/P-4	1.3	Filling, watering and ramming earth under floor with new earth (Excavated from outside) lead upto one chain and lift upto 5 feet.	249258	%0Cft	3630.00	904,808
S.No.13 (b)/P-3	1.4	Earth work compaction (Soft ordinary or hard soil)(b) Laying earth in 6 layers levelling and dressing and watering for compaction etc. complete.	289238	%0Cft	354.00	102,390
					TOTAL COST	**1,510,380**
SECTION -2 PLAIN AND REINFORCED CONCRETE						
S.No. 5(i)/P-15	2.1	Cement concrete plain including placing compacting, finishing and curing, complete (includingscreening and washing of stone aggregate without shuttering). (a) Ratio 1:4:8	11138	%Cft	11,289	1,257,354
S.No. 5(h) P-15	2.2	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate without shuttering). Ratio (1: 3:6)	24655	%Cft	12,595	3,105,315
S.No 19 b (ii) / P-17	2.3	Erection and removal of centering for R.C.C or plain concrete works of Partal wood vertical	7696	%Sft	3,127	240,673
S.No. 6(a) P-17	2.4	Reinforcement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kind of forms, moulds, lifting shuttering, curing, rendering and finishing the exposed surface (including Screening and washing of shingle) R.C.C work in roof slab beams columns rafts lintels staircases and other structural members laid in situ or pre-cast laid in position complete in all respects, ratio (II) Ratio 1:1-1/2 :3	101935	Cft	349	35,575,352
S.No 2 /P-15	2.5	Dry rammed shingle brick ballast or stone ballast 1.5" to 2"guage	10268	%Cft	3,328	341,657

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Ref. No. / NSI	Item no	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
S.No 16 (c) /P-42	2.6	Provide & lay topping of concrete 1:2:4, including surface finishing & dividing in panels : 2" thick (For Under Floor)	31114	%Sft	3,276	1,019,145
S.No 6 /P-17	2.7	Precast reinforced cement concrete in columns, beams lintels stair cases, shelves, etc. (I) Ratio 1 : 2: 4	141	Cft	309.78	43,617
					TOTAL COST	41,583,114
SECTION -3 BRICK MASONRY WORK						
S.No 5(I)/P-21	3.1	Pacca brick work in ground floor in (e) Cement sand mortar. 1:6	10012	%Cft	12,674.36	1,268,930
S.No 24 & 30 /P-19	3.2	Pacca brick work in first floor in (e) Cement sand mortar. 1:6	14576	%Cft	16,099.98	2,346,718
					TOTAL COST	3,615,648
SECTION -4 SURFACE RENDERING						
S.No 13(b) /P-52	4.1	Cement plaster 1:6 upto 12' height (b) 1/2" thick (For Internal Side)				
	a	Ground Floor	49672	%Sft	2206.6	1,096,060
	b	First Floor(Add 13% extra labour rate)	46037	%Sft	2308.85	1,062,917
S.No 11(a) /P-52	4.2	Cement plaster 1:4 upto 12' height (a) 3/8" thick (For Ceiling)				
	a	Ground Floor	31013	%Sft	2197.52	681,517
	b	First Floor(Add 13% extra labour rate)	29500	%Sft	2299.77	678,440
S.No 13(b) /P-52	4.3	Cement plaster 1:6 upto 12' height (b) 1/2" thick (For External)				
	a	Ground Floor	110	%Sft	2206.6	2,427
	b	First Floor(Add 13% extra labour rate)	2921	%Sft	2308.85	67,430
S.No 32 /P-55	4.4	Rough cost/stucco cement plaster 3/4" thick in Proportion of 1:1 1/2" 1 1/2" in cement hill sand and bajri in patterns. (For External)	303	%Sft	2306.1	6,979
S.No 35 /P-55	4.5	Extra labour rate for making cement plaster pattas/band around straight or carved openings and around the edges of roof slabs, the width not less than 6" with fine finishing as derected by Engineer Incharge.	7578	P.Rft	19.36	146,708
					TOTAL COST	3,742,478
SECTION -5 ROOFING & WATERPROOFING						
S.No 9 /P-71	5.1	Bitumen coating to plastered or cement concrete surface.	11403	%Sft	778.09	88,726
S.No 14 /P-18	5.2	Reinforced cement concrete spout i/c fixing in position 2-1/2"x6"x5"	20	No,s	261.25	5,225
					TOTAL COST	93,951
SECTION -6 PAINTING & VARNISHING						
S.I. No. 36(a) / P-54	6.1	Preparing the surface and painting with matt finish i/c rubbing the surface with bathy (Silicon carbide rubbing brick) filling the voids with zink/chalk/plaster of paris mixture, applying first coat premix making the surface smooth and then painting 3 coats with matt finish of approved make etc: complete (3 coats)	95709	%Sft	3444.38	3,296,566
S.I. No. 23/P-53	6.2	Primary coat of Chalk under distemper (for ceiling)	60513	%Sft	442.75	267,923
S.I No. 24/P-53.	6.3	Distempering (c) three coats.(for ceiling)	60513	%Sft	1079.65	653,332

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Ref. No. / NSI	Item no	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
S.No 38(A) +(B x 2)/P-56	6.4	Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand paper filling the voids with chalk/plaster of pairs and then painting with weather of approved make (new surface) three coat	6145	%Sft	2567.95	157,790
S.No 7 /P-71	6.5	French polishing complete: On new work	8351	%Sft	3,841.75	320,832
S.No 5(d) /P-70	6.6	Painting new surfaces:- (d) Preparing surface and painting guard bars, gates of iron bars, gratings, railings (including standards braces, etc). And similar open work.				
		(a) Priming coat.	10120	%Sft	521.95	52,821
		(b) Each subsequent coat of paint.	10120	%Sft	374.44	37,893
					TOTAL COST	**4,787,159**
SECTION -7 FLOOR FINISHES						
S.No 22 /P-42	7.1	1 1/2" thick mosaic flooring consisting of 1/2" mosaic topping of one part of grey cement to two part of marble chips laid over 1"thick flooring of 1:2:4 cement concrete including rubbing and polishing complete.	41190	% Sft.	9,258.67	3,813,676
S.No 24 /P-43	7.2	Laying floor of approved with glazed tile 1/4" thick in white cement 1:2 over 3/4" thick cement mortar 1:2 complete.	1695	%Sft	27,678.86	469,184
S.No 38 /P-45	7.3	Glazed tile dado 1/4" thick laid in pigment over 1:2 cement sand mortar 3/4" thick including finishing.	4585	%Sft	28,299.30	1,297,622
S.No 41 /P-13	7.4	Cement tiles (8" x 8" x 3/4") laid flat in 1:2 cement mortar over 3/4" thick cement mortar 1:2.	284	%Sft	10,916.65	30,949
S.No 61 /P-48	7.5	Providing and laying HALA or pattern tiles glazed 6" x 6" x 1/4" on floor or wall facing in required colour and pattern of STILE specification jointed in white cement and pigment over a base of 1:2 grey cement mortar 3/4" thick including washing and filling of joints with slurry of white cement and pigment in desired shape with finishing, cleaning and cost of wax polish etc. complete including cutting tiles to proper profile.	1169	%Sft	47,651.56	556,880
					TOTAL COST	**2,354,635**
SECTION -8 CARPENTRY AND JOINERY						
S.No 7 /P-58	8.1	Fist class deodar wood wrought, joinery in doors and windows etc, fixxed in position including chowkats hold fasts hinges, iron tower bolts, chocks cleats, handles and cords with hooks, etc. (1273.76-370.83=902.93)	2855	Sft	902.93	2,577,414
S.No 29 /P-93	8.2	Providing and fixing G.I frames /Choukhats of size 7" x 2" or 4 1/2" x 3" for door using 20 gauge G.I sheet I/c welded hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also i/c all carriage , tools and plants used in making and fixing.	1620	P.Rft.	228.90	370,887

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Ref. No. / NSI	Item no	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
S.No 21 /P-60	8.3	Providing and fixing approved quality mortice lock.	73	Each	1,786.13	130,387
S.No 16 /P-60	8.4	1 1/2"thick deodar wood panelled work including frame work	4765	Sft	906.24	4,318,415
					TOTAL COST	**7,397,103**
SECTION -9 METAL WORK						
S.No 26 /P-93	9.1	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).	5060	Sft	180.50	913,330
					TOTAL COST	**913,330**
SECTION -10 MISCELLANEOUS						
S.No 91 /P-108	10.1	Providing anti-termite treatment by spraying/ sprinkling / spreading Neptachlar 0.5% or equivalent. Emulsion as an over all Pre Construction treatment in slab type construction along external foundation trenches of the building over complete parimeter of the foundation trench etc. as per directions of engineer incharge.	35640	Sft	9.74	347,134
S.No 45 /P-3	10.2	Difference of SR cement.	8146	Bags	40	325,840
					TOTAL COST	**672,974**
					SUB TOTAL COST OF SCHEDULE ITEM	**66,670,770**
		NON SCHEDULE ITEM				
SECTION-1 REINFORCEMENT WORK						
NSI	1.1	Providing and laying deformed (minimum yield point 60,000 psi) reinforcement bars with & including the cost of straightening, cutting, bending, binding, placing in position in all kinds of RCC work in foundation, basement, plinth and any floor of building and as per direction of engineer in charge.	388,395	P.Kg		
SECTION-2 FAIR FACE CLADDING						
NSI	2.1	Providing and laying 4-1/2" thick fair face Special brick Cladding (9"x4-1/2"x3") laid in (1:3) cement / red posso mortar having 1/4" thick groove finish i/c the cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing including carriage charges complete in all respect as approved and directed by the Engineer Incharge.	18,554	Sft		
SECTION -3 RAILING						
NSI	3.1	Providing and fixing S.S. pipe railing, comprising, vertical posts of 1-1/2" x 1-1/2" S.S Square tube and horizontal bracing of 3/4" x 3/4" Wooden Handrail at top as per design including cost of specials, bends, threading, cutting and making good damages on the floor or wall of any kind etc. at any floor. complete as per instruction of the Engineer-in-Charg.(Taiwan or Equivalent)	303	Rft		

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Ref. No. / NSI	Item no	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
NSI	3.2	Providing deodar wood wall mounted rail of size 6"x 3/4 " which is fixed on a base of wood of size 3-1/2" x1-1/4 " and 1' long and a gap of 1' fixed at wall such that for a length of 10 measured includ the total length =5' and executive as per direction of engineer incharge	303	Rft		
SECTION -4 CARPENTRY AND JOINERY						
NSI	4.1	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 execpt locks complete in all respect as approval by the Engineer Incharge	847	Sft		
NSI	4.2	Supply and fix, 8mm thick tempered Glass Partition Partially forested glass (Ghani,Tariq float or equvelent) Partition in any size deatilas showing in drawing including all necessary accessories as specified & as per instruction of engineer in charge	3238.40	Sft		
NSI	4.3	Supply and fix, 8mm thick tempered Glass Door (Ghani,Tariq float or equvelent) door in any size including all necessary accessories i.e. pivot machine, S.S handle, D lock etc as specified & as per instruction of engineer in charge	323	Sft		
NSI	4.4	Supply and fix, Kitchen Floor / Sink Floor Cabinet, 600mm wide and 862mm high with First Laminated Lasini (Karachi) frame, 19mm thick TLaminated Lasini (Karachi) shutter, drawers incl all necessary screws, rawal plug, polishing/ painting 3 coat to gola complete.	50	Sft		
NSI	4.5	Supply and fixing UPVC full glazed openable windows with 60mm wide frame 2-2.2mm wall thicknesses inclusive of all accessories and galvanized iron support approved colour with 5mm thick tinted glass pans in all respect as approval by the Engineer Incharge.	5,060.00	Sft		
SECTION -5 FLOOR FINISHES						
NSI	5.1	Providing and laying porcelain (imported) tiles (of approved colour/shade/texture) upto 4 Sft. in size on floors laid in pattern, jointed in 1:3 cement sand mortar and grouted with white/coloured cement using imported pigments, including laser cutting, over and including 1:3 cement sand mortar base, complete.	22458	Sq.ft.		

PROJECT MANAGEMENT UNIT SBBU SRA PMU

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Ref. No. / NSI	Item no	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
NSI	5.2	Providing and laying approved Quality Granite slab polished Required Size Steps & floor on laid over 3/4 inch (20 mm) thick cement mortar 1:2 setting the tiles with Bound over cement mortar, jointing the tiles with white cement slurry and nosing including curing, etc.complete all as specified.& Instruction by engineer in charge	1103	Sq.ft.		
NSI	5.3	Providing and laying approved Granite slab polished Required Size on Riser laid over 1/2 inch (12 mm) thick cement mortar 1:2 setting the tiles with Bound over cement mortar, jointing the tiles with white cement slurry and nosing including curing, etc.complete all as specified.& Instruction by engineer in charge	167	Sq.ft.		
NSI	5.4	Providing and laying approved Granite slab Required Size on counter tops/Venity laid over 3/4 inch (20 mm) thick cement mortar 1:2 setting the tiles with Bound over cement mortar and nosing including curing, etc.complete (Imported origin China, Italy or equivalent) all as specified.& Instruction by engineer in charge	50	Sft		
NSI	5.5	Providing and laying approved Quality Marble slab polished Required Size Steps on laid over 3/4 inch (20 mm) thick cement mortar 1:2 setting the tiles with Bound over cement mortar, jointing the tiles with white cement slurry and nosing including curing, etc.complete all as specified.& Instruction by engineer in charge	1122	Sft		
NSI	5.6	Providing and laying approved Marble slab polished Required Size on Riser laid over 1/2 inch (12 mm) thick cement mortar 1:2 setting the tiles with Bound over cement mortar, jointing the tiles with white cement slurry and nosing including curing, etc.complete all as specified.& Instruction by engineer in charge	413	Sft		
SECTION -6 FALSE CEILING						
NSI	6.1	Providing and fixing of Gypsum board false ceiling (Elephant brand or as approved equivalent) as per approved design , 1/2" thick, including hanging arrangement supported including paint finish of ICI make and as directed by the Architect/Engineer incharge.	10042	Sft		
SECTION - 7 ROOFING & WATERPROOFING						
NSI	7.1	Water proofing treatment on roof slabs comprising hot bitumen coat ,2" (50mm) thick thermopore Sheet, Chicken Mesh Jali & 2" thick (1:2:4) PCC including surface finishing & dividing in panels complete in all respects as approved by the Engineer Incharge.	35637	Sft		

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Ref. No. / NSI	Item no	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SECTION -8 MISCELLANEOUS						
NSI	8.1	Providing and fixing of Gothic type column precast capital and base for Column complete in all respects as per drawings, specifications and/or as directed by by the Architect / Engineer (sample and shade/colour approved by the Architect / Engineer)..	2	Each		
NSI	8.2	Extra for arches, architrave coping,ornamantal work and cornice of any shape on External face as per drawing and instruction of engineer incharge	441	Rft		
NSI	8.3	Providing and fixing of rubber 3 bubbles water stopper 275 mm to 300 mm wide in vertical or horizontal including cutting and jointing etc.	420	Rft		
NSI	8.4	Providing and fixing 2" thick theremopore sheet cavity wall.complete as per instruction of the Engineer-in-Charge.	28356	Sft		
NSI	8.5	Providing & fixing 9 mm thick Approved quality Soft wood & Acoustic Fiber fixed on walls with rawal plugs, screws etc. as per drawing & instruction of engineer in charge	2,662.00	Sft		
NSI	8.6	Combed cement plaster 3/4" thick with (1:4) cement sand mortar on walls at any height as per drawing and instruction of engineer incharge.	6,145	Sft		
				TOTAL COST OF NON SCHEDULE ITEM		

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AT
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PLUMBING WORK

Ref. No. / NSI	Item no	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEM						
SECTION -1 SANITARY FIXTURES AND FITTINGS						
S.I. No.23/P-6	1.1	Providing & fixing in position nyloon connection complete with 1/2" dia brass stop cock with pair of brass nuts and linig joints to nyloon connection .	Each	77	447.15	34430.55
S.I. No.19/P-19	1.2	Providing & fixing C.P muslim shower with double bib cock & ring pipe .	Each	44	3432	151008
S.I. No.19/P-6	1.3	Providing and fixing steel stainless local make complete with cast iron or wrought iron brackets 6 inches built in wall, 1-1/2" rubber plug chorme brass chain 1-1/2" c.p brass waste with 1-1/2" plate P.V.C waste pipe and making good in cement concrete 1:2:4 a) Steel sink stainless sized 40" x 20" local making (Standard Pattern)	Each	3	5052.3	15156.9
S.I. No.4(b)/P-7	1.4	Providing and fixing 15" x 12" bavelled edge mirror of belgium glass complete with 1/8" thick hard board and c.p screws fixed to wooden pleat (b) Superior Quality	Each	31	2047.76	63480.56
S.I. No.1/P-7	1.5	Providing & fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long c.p brass screws. (I) Towel rail 36" long (b) 3/4" dia round or square (Superior quality).	Each	31	1412.95	43801.45
S.I. No.14/P-19	1.6	(a) Supplying & Fixing wash basin mixture of superior quality with C.P head 1/2" dia	Each	5	2882	14410
S.I. No.17/P-19	1.7	Supplying & Fixing sink mixture of superior quality with C.P head 1/2" dia	Each	2	2745	5490
S.I. No.16/P-19	1.8	Supplying & Fixing bath room accessories set (7 Piece) i/c towel rod , brush holder , soaptray,shelf of approved design i/c cost of screw nuts etc complete .(Master Brand)	Each	3	10322.4	30967.2
S.I. No.16/P-19	1.9	(a) Supplying & Fixing swan type piller cock of Superior quality single c.p. head 1/2" dia.	Each	33	795.3	26244.9
S.I. No.13b/P-19	1.1	(b) S/Fixing long bib- cock of crystal head with 1/2" dia.	Each	6	1384.24	8305.44
S.I. No.1(i)/P-24	1.11	Supplying & fixing 6" x 4" earthen 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" and C.I. cover and frame 12"x12" (inside) etc Complete (b) earthen ware glazed gully trap(a) (i) 6'x6"x4" (i) With C.I Cover and Frame	Each	7	1220.67	8544.69

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Ref. No. / NSI	Item no	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
S.I. No.1/P-46	1.12	Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6"(1067mm) depth with walls of B.B in cement sand mortar 1:3 cement plastered 1:3,1/2" thick inside of walls and 1" (25mm) thick over benching and channel i/c fixing C.I manhole Cover with Frame of Clear opening 1-1/2' x 1-1/2' (457x457 mm) of 1.75 cwt (88.9) embedded in plain C.C 1:2:4 and fixing 1" (25mm) dia M.S Steps 6' (150 mm) Wide Projecting 4" (102mm) from the face of wall at 12" (305 mm) C/C duly Painted Etc. Complete as per standard Specification and Drawing. (a) 4" to 12" dia 2'x2'x3'-6"	Each	7	14748	103236
SECTION -2 VALVES						
S.I. No.5/P-18	2.1	Supplying & fixing ball valves (china)				
	a	1" dia	Each	16	318.34	5093.44
	b	1-1/2" dia	Each	16	573.7	9179.2
	c	2" dia.	Each	22	738.76	16252.72
					TOTAL COST	**535601.05**
NON SCHEDULE ITEM						
SECTION -1 SANITARY FIXTURES AND FITTINGS						
NSI	1.1	Supply and fix, Wash Basin with pedestal, glazed ware, Imported (like Porta,Marchi or quivalent) in white / Ivory colour, one hole, complete with waste pipe coupling, CP chain and plug and pedestal etc (except mixer) best quality, fixed to concrete, brick, stone or wood work.	Each	5		
NSI	1.2	Supply and fix Pedestal less wash basin 75cm x 45cm of (like Porta,Marchi or quivalent) including all fitting accessories but excluding the cost of mixing tap etc complete.	Each	27		
NSI	1.3	Supply and fix, Disabled bath wash basin, glazed ware, Imported (like Porta,Marchi or quivalent) in white / Ivory colour, one hole, complete with waste pipe coupling, CP chain and plug, automatic mixer etc best quality, fixed to concrete, brick, stone or wood work as per instruction of engineer in charge	Each	5		
NSI	1.4	Supply and fix, WC apparatus, European Pattern, complete (coupled set), comprising closet 13 lit flushing cistern glazed, in white colour, seat cover, complete set (like Porta,Marchi or quivalent) fixed to concrete , brick ,stone or wood work, best quality, as per instruction of engineer in charge	Each	16		
NSI	1.5	Supply and fix, WC Asiatic pattern white colour including foot rest, full(like Porta,Marchi or quivalent) 13 lit flushing cistern, low down (plastic), flush pipe etc fixed to concrete, brick, stone, or wood work, best quality, as per instruction of engineer in charge	Each	25		
NSI	1.6	Supply and fix, Disabled WC apparatus, European Pattern, complete (coupled set), comprising closet 13 lit flushing cistern glazed, in white colour, seat cover, rails ,handle etc complete set (like Porta,Marchi or quivalent) fixed to concrete , brick ,stone or wood work, best quality, as per instruction of engineer in charge	Each	5		
NSI	1.7	Providing and fixing CP Soap tray of approved shape pattern and size, complete with plugs, screws etc complete and as per instructions of engineer in charge.	Each	27		

PROJECT MANAGEMENT UNIT PMU SBBU · SRA UNIT

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Ref. No. / NSI	Item no	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
NSI	1.8	Providing and fixing C.P brass toilet paper holder of standard size with chrome plated brass brackets complete similar to two ford design superior quality.	Each	40		
NSI	1.9	Providing & fixing S.S floor trap(Stainless Steel or approved by engineer in charge) with110mm dia inlet and 110mm dia outlet of the approved self cleaning design with a Grating with or without a vent arm including cost of making requisite number of holes in walls plinth and floor for pipe connections and making good cement concrete 1:2:4.	Each	53		
SECTION -2 WATER SUPPLY PIPES AND FITTINGS						
NSI	2.1	Providing, laying, fixing, testing and disinfecting, polypropylene pipelines for cold and hot water supply as per DIN 8077/8078 PN-20 for pipe and DIN 16962 PN-25 for fittings or equivalent BS specification Dadex, Firat (Turkey make) or formul (Turkey make) make as approved by the Engineer Incharge complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket etc., supported on walls or suspended from slab or run in chases including supports, cutting and making good the same as necessary to the structure, excavation and backfilling in layers complete in all respects..				
		(a) 20mm (3/4") dia	Rft	66		
		(b) 25 mm (1")	Rft	523		
		c) 38mm (1-1/2") dia	Rft	247		
		d) 50mm (2") dia	Rft	2029		
SECTION -3 SOIL, WASTE AND VENT PIPES						
NSI	3.1	Providing and fixing upvc Soil and Waste Pipe with specials and clamps including fixing, cutting and fitting including the cost of breaking through walls and roofs etc complete and as per instructions of engineer in charge. 3 inches (75mm) dia (Dadex or equivalent)	Rft	471		
NSI	3.2	Providing and fixing upvc Soil and Waste Pipe with specials and clamps including fixing, cutting and fitting including the cost of breaking through walls and roofs etc complete and as per instructions of engineer in charge. 4 inches (110mm) dia (Dadex or equivalent)	Rft	511		
SECTION -4 WATER PUMPS						
NSI	4.1	Providing, fixing and commissioning electric motor water pump set of 5 H.P. MECO 4 stage with 30 Amp. MCCB Terasaki and 8 Amp. MEM on-off starter 3 phase, 3 indicator lamps on steel board including 1:2:4 cement concrete foundation and making connection with 7/.036 (Pakistan Cable) and testing compelte in all respects including conduit wiring and earth connection with 14 SWG copper wire. Pump Suction 2" dia and delivery 1 1/2" dia.	Each	4		
					Cost of Non Schedule items (Rs.)-	

PROJECT MANAGEMENT UNIT PMU SBBU SRA

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BILL OF QUANTITIES OF

CONSTRUCTION OF ACADEMIC BLOCK-III SHAHEED BENAZIR BUTTO UNIVERSITY

AT SHAHEED BENAZIRABAD

ELECTRICAL WORKS

BASED ON SINDH SCHEDULE OF RATES 2012.

ITEM	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
	Wiring:-				
124	Wiring for light or fan point with (3/.029) PVC insulated wire in 20mm (3/4") PVC conduite recessed in the wall or column as required				
	Ground Floor	Point	548	1130	619,240
	First Floor	Point	595	1130	672,350
126	Wiring for plug point (3/.029) PVC insulated wire in 20mm (3/4") PVC conduite recessed in the wall or column as required				
	Ground Floor	Point	76	985	74,860
	First Floor	Point	264	985	260,040
10	P/Laying (Main or Sub Main) Pvc insulated with size 2-7/.029 copper conductor in 20mm (3/4") PVC conduite recessed in the wall or column as required (for pp & circuit wiring).				
	Ground Floor	Mtr	150	222	33,300
	First Floor	Mtr	100	222	22,200
12	P/Laying (Main or Sub Main) Pvc insulated with size 2-7/0.44 ($6mm^2$) copper conductor in (3/4") dia PVC conduite recessed in the wall, column as required (For Spilit AC)				
	Ground Floor	Mtr	520	341	177,320
	First Floor	Mtr	160	341	54,560
	Fittings & Fixtures				
232	Providing & Fixing brass batten holder				
	Ground Floor	Nos	301	70	21,070
	First Floor	Nos	377	70	26,390
226	Providing and fixing three pin 5 amp plug/socket flush type				
	Ground Floor	Nos	76	151	11,476
	First Floor	Nos	264	151	39,864
227	Providing and fixing three pin 10/15 amp plug/socket flush type				
	Ground Floor	Nos	6	162	972
	First Floor	Nos	4	162	648
228	Providing and fixing bakelite / Plastic ceiling rose with two terminals				
	Ground Floor	Nos	9	72	648
	First Floor	Nos	5	72	360

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ITEM	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
235	Providing and fixing brass ceiling fan 56" (good quality)				
	Ground Floor	Nos	112	3185	356,720
	First Floor	Nos	160	3185	509,600
41	**Cable Work:-**				
104	P/Laying (Main or Sub Main) PVC insulated & PVC sheathed with 4 core copper conductor under ground 600/1000 volts size 35mm² (From Main LT Panel to GF DB-2, FF DB 1 & 2)	Mtr	350	2529	885,150
107	P/Laying (Main or Sub Main) PVC insulated & PVC sheathed with 4 core copper conductor under ground 600/1000 volts size 95mm² (From Main LT Panel to GF DB-1)	Mtr	150	6529	979,350
				Total =	**4,746,118**

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BILL OF QUANTITIES OF

CONSTRUCTION OF ACADEMIC BLOCK-III SHAHEED BENAZIR BUTTO UNIVERSITY

AT SHAHEED BENAZIRABAD

ELECTRICAL WORKS

BASED ON MARKET OF RATES 2022.

S.NO	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
	Fittings & Fixtures:-				
1	Providing and fixing LED flush type down light 9w good quality complete in all respect or as approved by the E/I as required.				
	Ground Floor	Pcs	103		
	First Floor	Pcs	20		
2	Providing and fixing LED flush type down light 6w good quality complete in all respect or as approved by the E/I as required.				
	Ground Floor	Pcs	36		
	First Floor	Pcs	20		
3	Providing and fixing LED bulb 12w good quality complete in all respect or as approved by the E/I as required.				
	Ground Floor	Pcs	301		
	First Floor	Pcs	377		
4	Providing and fixing false ceiling fan 2'x2' 18" sweep good quality including making connection complete in all respect or as approved by the E/I as required.				
	Ground Floor	Pcs	49		
	First Floor	Pcs	16		
5	Providing and fixing exhaust fan 12" sweep good quality including making connection complete in all respect or as approved by the E/I as required.				
	Ground Floor	Pcs	6		
	First Floor	Pcs	2		
6	Providing and fixing floor box with suitable size polly carbonate flame retardant 2 x 3 pin switch socket with fancy gang plate fixed on di fabricated poweder coated metal board under finishing floor including making connection or as approved by the E/I as required.				
	Ground Floor	Each	4		
	First Floor	Each	60		
	Wiring for earthing point:-				
7	Wiring for earthing point with single core (1 mm²) PVC insulated wire recessed in the wall or column as required. (For L, F & Plug Point)				
	Ground Floor	Mtr	5360		
	First Floor	Mtr	5950		
8	Wiring for earthing point with single core (1.5 mm²) PVC insulated wire recessed in the wall or column as required. (For Power & circuits)				

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S.NO	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
8	Ground Floor	Mtr	150		
	First Floor	Mtr	100		
9	Wiring for earthing point with single core (4 mm²) PVC insulated wire recessed in the wall or column as required. (For DB Earthing)				
	Ground Floor	Mtr	50		
	First Floor	Mtr	80		
	Earthing:-				
10	Providing and fixing Earthing set with 2'x2'x1/8" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (salt & charcoal, or earthing chemical powder) etc. making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) including fixing of 2x8 SWG copper wire in 1/2" dia GI conduit complete in as respect including fixing tee and making pit with cover complete as required.	Job	1		
11	Supply and errection of Grounding connecting points.	Each	6		
	Lightning Protection System:-				
12	Supply and erection of copper tape, including copper staple, copper nails/Screw etc. Size (1.5"x1/8").	Mtr	250		
13	Supply and Erection 1" dia & 1m long lightening conductor copper rod with 5 spikes ball & base etc.	Each	4		
	MAIN DB:-				
	Providing & Fixing, testing,commissioning cubical type metal distribution board flush type with locking arrangement duly powder quoted paint including all fastening material including wiring with suitable gauge Pvc / Pvc wire complete in all respect (Pel, Libra, Rco, Karimi, Industrial Power Tech, Global Tech).				
14	**Incoming:-**	Job	1		
	01 Nos 500 A TP MCCB (Adj) (Terasaki or equivalant)				
	01 Nos Energy Analyzer (Lovato or equivalant)				
	04 Nos Indicating lamps				
	Out going:-				
	01 Nos 200 A TP MCCB (Terasaki or equivalant)				
	03 Nos 125 A TP MCCB (Terasaki or equivalant)				
	GF DB-1				
	Providing & Fixing, testing,commissioning cubical type metal distribution board flush type with locking arrangement duly powder quoted paint including all fastening material including wiring with suitable gauge Pvc / Pvc wire complete in all respect (Pel, Libra, Rco, Karimi, Industrial Power Tech, Global Tech).				
15	**Incoming:-**	Job	1		
	01 Nos 200 A TP MCCB (Terasaki or equivalant)				

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S.NO	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
	04 Nos Indicating lamps				
	Out going:-				
	48 Nos 10 A SP MCB (Terasaki or equivalant)				
	03 Nos 16 A SP MCB (Terasaki or equivalant)				
	03 Nos 10 A SP MCB (Spare)				
	GF DB-2 & FF DB-1, 2				
	Providing & Fixing, testing,commissioning cubical type metal distribution board flush type with locking arrangement duly powder quoted paint including all fastening material including wiring with suitable gauge Pvc / Pvc wire complete in all respect (Pel, Libra, Rco, Karimi, Industrial Power Tech, Global Tech).				
16	**Incoming:-**	Job	3		
	01 Nos 125 A TP MCCB (Terasaki or equivalant)				
	03 Nos Indicating lamps				
	Out going:-				
	36 Nos 10 A SP MCB (Terasaki or equivalant)				
	03 Nos 16 A SP MCB (Terasaki or equivalant)				
	03 Nos 10 A SP MCB (Spare)				
	Equipments:-				
17	Providing and fixing fire extinguisher powder type 6 kg				
	Ground Floor	Pcs	8		
	First Floor	Pcs	9		
	Providing and fixing fire extinguisher Co2 5 kg				
18	Ground Floor	Pcs	8		
	First Floor	Pcs	9		
				TOTAL COST OF NON SCHEDULE ITEM=	

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BILL OF QUANTITIES OF
CONSTRUCTION OF ACADEMIC BLOCK-III
SHAHEED BENAZIR BUTTO UNIVERSITY AT SHAHEED BENAZIRABAD
ELV SYSTEM

NON SCHEDULE ITEM

S.NO	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
1	**FIRE ALARM SYSTEM:-** Supply, installation, testing & commissioning of Analogue Addressable Optical Smoke Detector with Base; 24 VDC; UL LISTED, low voltage, solid state, Not Radio Active type, uni-polar and dual chamber with LED alarm indication to be installed on RCC slab, complete in all respects.	Each	215		
2	Supply, installation, testing & commissioning of Addressable Heat Detector.	Each	11		
3	Supply, installation, testing & commissioning of Analogue Addressable Manual Call Point / Pull Station with Base and Back Box with Key UL Listed complete in all respects.	Each	17		
4	Supply, installation, testing & commissioning of Wall mounted Sounder of Bosh or Honeywell by UK completed in all respect .	Each	6		
5	Supply, installation, testing & commissioning of Micro processor based Fire Alarm Control Panel, suppression consisting of loops and can address around 125points, indicating circuits, including 2x12V DC Batteries, suppression zone built in power supply, including stand by battery, alarm and trouble indication, silence alarm and reset system, general alarm and reset system, general alarm facility, complete in all respects.	Each	4		
6	**CCTV SYSTEM:-** Supply, Installation, Testing and Commissioning of Wall bracket box Camera, type PoE I.P camera with day and night feature having 1.3MP Resolution with live/recording quality of min 15 fps, Varifocal Lens 2.8-12mm, along with all mounting accessories complete in all respects.	Each	22		
7	Supply of Installation Indoor, Outdoor Dome IR Camera,1/3"CCD, 530TV lines, IR LEDs, 0.1lx (F2.0),Internal Sync., AWB / BLC / AGC Mirror On-Off Control, varifocal lens 3.6mm, Gray color case, DC12V, PAL, HDC-515PI-36 complete in all respects.	Each	19		
8	Supply Installation of 32-Channel Digital Video Recorder, real time display 400 ips and with Built-in DVD writer, Xtra Stor / MPEG 4 compression, 1 TB, HDD, SATA port with remote viewing and management software HNDR-E1648L-N-D-E, Honyewell.complate in all respects.	Each	4		
9	Supply and Installation of Video Management and Recording System including media converter as approved by the E/I as required.	Each	4		

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S.NO	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
10	Supply and installation of 16 input to 01 output digital multiplexer for CCTV system complete in all respects.	Each	4		
11	Supply, Installation and Cabling (RG-11 Coaxial Cable through approved 1" dia PVC conduit).	Mtr	431		
12	Supply and installation of 32" LCD monitor of best quality or as approved by the E/I as required.	Each	4		
13	**DATA NETWORKING SYSTEM:-** Supply and Installation, testing and commissioning of 42 port data cabinet with 3 no's cabinet tray, 4 No's power socket and with flexi glass door l.	Each	2		
14	Supply, 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 respects.	Mtr	539		
15	Supply, installation, testing and commissioning of OFC Patch Cord; 3m; Multi Mode; Duplex Type, complete in all respects.	Each	129		
16	Supply, Installation, Testing and Commissioning of Core-i7; 8 GB RAM; 1 TB HDD; KB Mouse DVD R/W; Windows Graphic Card 4G Internal Tower Type PC (Computer), complete in all respects.	Each	4		
17	Supply and installion of Computer double port face plate CAT-6 RJ-JACK with appropriate MS 16SWG Orange enameled back box recessed in wall, column etc.complete in all respects.	Each	11		
18	Supply and installion of Computer single port face plate CAT-6 RJ-JACK with appropriate MS 16SWG enameled back box recessed in wall, column etc… complete in all respects.	Each	54		
19	Supply, installation, Testing and commissioning of UTP Cat-6a Patch Cords 3m (Supports 10 Giga Network) to be Installed in Data Cabinets.	Each	65		
20	**TELEPHONE / INTERCOM SYSTEM:-** Supply and Installation of Telephone Exchange with 16 Trunk and 300 Extensions with UPS Built-in 16 + 304 KX-TDA 600, Consol Set, CLI Card, UPS Cable with Batteries, complete in all respects.	Each	2		
21	Supply, installation, connecting, testing and commissioning of Telephone distribution board having 1 x 15 pair termination block.	Each	6		
22	Providing & laying 10 pair telephone cable (Pony make) in 1" dia PVC conduit recessed in the wall, column & roof as required. (from Exchange to Junction Box).	Mtr	108		
23	Providing & laying 2 pir Telephone wire in 1" dia PVC conduit recessed in the wall, column & roof as required. (from Junction Box to each telephone set).	Mtr	862		

PROJECT MANAGEMENT UNIT PMU SBBU - SHA

PLANNING ENGG ARCHITECTURAL & SERVICES CONSULTANT ESS.I.AAR 314, Nashrin Centre S.S. Suleman Road Gulshan-e-Iqbal Karachi

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S.NO	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
24	Providing & fixing polycarbonate flame retardant digital telephone socket with lancy " lovory" gang plate fixed on die fabricate powder coated metal board recessed in wall or column including connection.	Each	71		
25	Providing & fixing polycarbonate flame retardant TV socket with lancy " lovory" gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required.	Each	9		
26	**PUBLIC ADDRESS SYSTEM:-** Supplying, installation, wiring, connection of speaker cable 37/0.0076 flexible cable for Audio speaker and laid in 1" dia PVC conduit as required.	Mtr	862		
27	Supply, installation, testing & commissioning of Table Stand Microphone.	Each	4		
28	Supply, installation, testing & commissioning of Goose Neck Microphone.	Each	4		
29	Supply, installation, testing & commissioning of Ceiling Mount Speakers.	Each	65		
30	Supply, installation, testing & commissioning of Wall Mount Speakers.	Each	9		
31	Supply, installation, testing and commissioning of Power Amplifier.	Each	4		
32	Supply, installation, testing & commissioning of Back Ground Music Player.	Each	4		
33	Supply, installation, testing and commissioning of Mixer Amplifier (240W); 6 MIC Input; complete in all respects.	Each	4		
				Total =	

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BILL OF QUANTITIES OF

CONSTRUCTION OF ACADEMIC BLOCK-III SHAHEED BENAZIR BUTTO UNIVERSITY AT SHAHEED BENAZIRABAD

FIREFIGHTING SYSTEM

NON SCHEDULE ITEM

S.No.	ITEMS	UNIT	QUANTITY	RATE	AMOUNT
1	SUPPLY AND INSTALLATION OF SEAMLESS SCHEDULE-40 MS PIPE Ø1"	Rft	608.00		
2	6kg Dry Chemical Powder Extinguisher, Stored Pressure, DP6N BRISTOL UAE	Each	43		
3	5kg CO2 Extinguisher (CD5N) ,BRISTOL UAE	Each	13		
4	6L Water Extinguisher , Stored Pressure(WE6N) BRISTOL UAE	Each	30		
5	Installation,rigging,lifting & placement of Fire Hose Single Vertical Cabinet,Single Compartment	Each	30		
6	P/N 51-792-1-155 CONCEALED PENDENT SPRINKLER, K-FACTOR 5.6, QUICK RESPONSE 68 DEG. C THREAD SIZE : ½" NPT MODEL : TY 3531 C/W P/N 56-792-9-135 COVER PLATE FINISH, CHROME. 'TYCO' USA	Each	87		

PROJECT MANAGEMENT UNIT SBBU SBA PMU

PLANING ENGG. ARCHITECTURAL & SERVICES CONSULTANT ESS I.AAR 314, Mashriq Centre S.S. Suleman Road Gulshan-e-Iqbal Karachi

S.No.	ITEMS	UNIT	QUANTITY	RATE	AMOUNT
7	Horizontal Split Case Pump: 750GPM@7 BAR 1Electric+1Diesel+1Jockey, UL Listed complete with Control Panel and All Standard Accessories Local as per request	Set	1		
8	2 Way breeching inlet Cabinet Full SS 1.00 mm thick 304 hairline finish 304 and piano hinge with wired glass size: 600 (H) x 600 9W) x 300(D) mm complete with . 2-way x 4" Breeching Inlet (PN16 Flanged, 2 ½" M. Inst. Inlets, Bristol, BFE-2WBI, BSI-Kitemark) BRISTOL UAE	Each	1		
9	J6200 Mueller UL/FM Wet Barrel Hydrant, 250 PSI, Bronze Body ASTM B584, 2 x 2½" Hose Nozzle (NST), Silicon Bronze Stem, Rubber BUNA-N Disc, Rubber BUNA-N Nozzle ORing, Flanged end connection conforms to ASME/ANSI B16.1 Class 125 4" (DN100), Flange Pattern: 8 x ¾ " (19mm) Holes, 7½ " (191mm) DBC. (RED Paint) Make: Mueller USA UL/FM	Each	3		

PROJECT MANAGEMENT UNIT SBBU SEA

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Gulshan-e-Iqbal
Karachi

S.No.	ITEMS	UNIT	QUANTITY	RATE	AMOUNT
10	Surface Mounted Type Single cabinet full SS 1.00 mm thick red finish with round bar Hinges and latch lock (size: 800 (H) x 800 (W) x 300 (D) mm) complete with the following accessories: 2½" x 30m Fire Hose (Test Pressure 200psig, Red, Canvas, Bristol) with 2 ½" Inst. Alum.Coupling, BF-SJ-002	Each	3		
				TOTAL COST OF NON SCHEDULE ITEM	

BILL OF QUANTITIES OF
FOR
BORING
AT
SHAHEED BENAZIR BUTTO UNIVERSITY SHAHEED BENAZIRABAD

Ref. No. / NSI	Item no	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEM						
PHS.I No O-1-P-41	1	Boring for tube well in all water bearing soils from ground level upto 100 ft. or 30.5 meter depth i/c sinking and with drawing of casing pipe. d)150 mm (6" dia)	Rft	100.00	414.00	41,400
PHS.I No O-2-P-41	2	Boring for tube well in all water bearing soils from depth 100.1 to 200 ft. or 30.51 meter below groun level i/c sinking and with drawing of casing pipe. b)150 mm (6" dia)	Rft	100.00	516.00	51,600
PHS.I No 8b-P-43	3	Supplying & fixing M.S bail plug	Each	1.00	2607.00	2,607
PHS.I No 12-b-43	4	Supplying and installing PVC blind pipe 'B' Class of approved design quality and make i/c necessary sockets etc. complete. b) 100 mm (4" dia)	Rft	100.00	179.10	17,910
PHS.I No 12-d-43	5	Supplying and installing PVC blind pipe 'B' Class of approved design quality and make i/c necessary sockets etc. complete. d) 150 mm (6" dia)	Rft	100.00	338.90	33,890
PHS.I No 14-P-45	6	Plugging of joint of casing and blind pipe with cement concrete 1:1=1/2:3	Rft	100.00	347.00	34,700
PHS.I No 9-P-43	7	Supplying and installing PVC strainers 'B' class of approved design quality and make i/c necessary sockets etc. complete. B) 100 mm (4" dia)	Rft	100.00	209.95	20,995
PHS.I No 13-P-45	8	Shrouding with graded bajri (3/8" to 1/8") or (9 to 3 mm) in between bore and blind pipe for the following diameters of strainers. B)100 mm (4" dia)	Rft	100.00	49.00	4,900
					TOTAL COST	208,002
		NON SCHEDULE ITEM				
NSI	1	Supplying and fixing submersible pump complete set for tube well, with AC electric motor driven, 400 V, 3 phase, 50 cycles, complete with pump, motor, cable, column pipes, motor control unit, pump capacity 0.5 cusec upto 97 M head, pump setting 60M with 15 hp motor, 2900 rpm etc complete and as per instructions of engineer in charge.	Each	1.00		
					TOTAL NON SCHEDULE COST	

PROJECT MANAGEMENT UNIT SBBU SBA-BAD PMU

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