

OFFICE OF THE PROJECT DIRECTOR LOCAL GOVERNMENT
GOVERNMENT OF SINDH

CONSTRUCTION OF STORM WATER DRAIN FROM HASAN SQUARE TO LYARI

BILL OF QUANTITIES

SUMMARY

BILL NO.	ITEMS OF WORKS	COST
1	CARRIAGEWAY	24,218,044
2	SECURITY CHECK POST	985,312
3	STORM WATER DRAINAGE SYSTEM	5,442,917
4	PEDESTRAIN BRIDGE & (RAMP STAIRS)	10,745,000
	Amount from Bill No. 1 to 4 , Total (A)	41,391,273
	Cost of Amount (A), after _ _ _ _ _ % Below/Above (± %) on Rates, Amount (B)	
	Final Quoted BID PRICE (A+B)	

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OFFICE OF THE PROJECT DIRECTOR LOCAL GOVERNMENT
GOVERNMENT OF SINDH

CONSTRUCTION OF STORM WATER DRAIN FROM HASSAN SQUARE TO LYARI RIVER

BILL OF QUANTITIES

BILL NO. 1 : CARRIAGEWAY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>SCHEDULE ITEMS</u>				
1	Clearing and Grubbing the site by cutting, uprooting and removing all rubbish shrubs including disposal to designated places (Vol-III (Highways) Chap-1, Pg-1, Sr. 1)	Sqm	1,000	10.44	10,440
2	Cutting & Removing trees within a distance of 100 feet.				
a	upto 2.5 feet grith.	Each	20	535.43	10,709
b	upto 2.6 to 6 feet grith.	Each	15	1,043.63	15,654
	(Vol-III Part III, (General) Chap-18, Pg-95, Sr. 2)				
3	Dismantling and Removing Road Metaling Vol-III, Part-II, Chap-2, Pg-13, Sr. 51)	Cum	500	213.68	106,840
4	Compaction of Natural Grounds upto depth of 20 cm (8" inch) below the natural ground level compacted upto 95% density modified AASHTO (Vol-III (Highways) Chap-1, Pg-1, Sr. 2)	Sqm	1,000	16.50	16,500
5	Earth work excavation in ashes, sand soft soil, or silt clearance undressed lead upto 50 feet. Vol-III, Part-II, Chap-1, Pg-1, Sr. 1-a)	Cum	4,320	40.06	173,059
6	Preparation of Sub Grade including earth excavation or filling to an average depth of 9" dressing to camber and consolidation with power roller (Vol-III (Highways) Chap-2, Pg-2, Sr. 9)	Sqm	4,114	56.66	233,099
7	Cartage of excavated material earth work wet silt building material rubbish murrum earth including loading and unloading lead upto 7 miles				
	1st Mile	Cum	10	143.75	1,438
	2nd Mile	Cum	10	177.49	1,775
	3rd Mile	Cum	10	204.65	2,046
	4th Mile	Cum	10	229.53	2,295
	5th Mile	Cum	10	252.29	2,523
	6th Mile	Cum	10	272.66	2,727
	7th Mile	Cum	4,820	284.16	1,369,634
	After 7th every Sub-sequent Miles	Cum	10	11.50	115
	(Vol-I, Part-I, Chap-1, Pg-1, Sr. 1)				
8	Earth work excavation of road side nalies including forming its banks or putting the same on embankment as directed clod breaking dressing etc, complete (throw work) (In ordinary soil) & Earth work compaction. (soft ordinary or hard soil). (b) Laying earth in 6" layers levelling & dressing & watering for compaction etc, complete (Vol-III (Highways) Chap-2, Pg-1, Sr. 4 & Pg-2, Sr. 9)	Cum	936	63.22	59,174
9	Earth work embankment from borrow pits including laying in 6" layers, clod breaking ramming dressing complete, lead upto 100 ft: lift upto 5 ft: (Inordinary soil) (Vol-III (Highways) Chap-1 Pg-1, Sr. 5)	Cum	936	78.00	73,008

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BILL OF QUANTITIES

BILL NO. 1 : CARRIAGEWAY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
10	Preparing Sub-Base by supplying and spreading well graded pit or bed run gravel having a liquid limit not greater than 25 and plasticity index not greater than 6 in proper camber and grade including watering rolling and compacting in layers, thickness of each compacted layer not exceeding 6" compacted upto 98-100% density as per modified AASHO density (Rate i/c all cost of materials T&P and carriage upto 3 chains).	Cum	936	1,180.82	1,105,248
	(Vol-III (Highways) Chap-2, Pg-4, Sr. 11d)				
11	Providing and Laying Aggregate base course in proper grade and camber having CBR 80% as per AASHTO standard specifications i/c spreading and compacting by approved mechanical means (Motor grader, Vibratory roller and Smooth wheel roller etc) watering to maintain the moisture content the compaction of each layer shall 100 percent to the max dry density (Rate i/c all cost of materials T&P and carriage upto 3 chains).	Cum	1,248	1,958.39	2,444,071
	(Vol-III (Highways) Chap-2, Pg-5, Sr. 13b)				
12	Asphalt Concrete base Course Providing and laying Plant mixed Asphalt Concrete Binder Course compacted thickness 2.36" inches (60mm thick) as per approved job mix formula using crush aggregate from approved source. Using asphalt of grade 60/70 during laying temperature not less than 140C compacted by steel wheel & PTR roller. The procedure of laying binder course material & methodology shall fully comply with AASHTO and as directed by Engineer Incharge. Minimum bitumen content should be 3.5% binder course shall be spreading, using paver machine. Rolling & Finishing to design proper grade line level and camber etc. (Machinery with POLs cost of material carriage).	Sqm	3,160	926.94	2,929,143
	(Vol-III (Highways) Pg-10, Sr. 23b)				
13	Applying priming coat or tack coat with approved binder at the required rate including cleaning the road surface thoroughly, heating to the required temperature and spraying the binder with pressure as directed etc, complete.	Sqm	17,280	6.98	120,614
	(Vol-III (Highways), Pg-12, Sr. 31)				

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CONSTRUCTION OF STROM WATER DRAIN FROM HASSAN SQUARE TO LYARI RIVER

BILL OF QUANTITIES

BILL NO. 1 : CARRIAGEWAY

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
18	Providing & fixing Precast Edge Block 3750 PSI Industrial Made Size 6 inches thick x 12 inches long x 18 inches high including the cost of Cartage, excavation, form Work for hunching, 1450 PSI lean concrete, 2250 PSI concrete for haunching, 1:4 cement sand mortar. (Vol-III (Highways) Chap-39, Pg-15, Sr. 14a)	M	1,600	1,090.01	1,744,016
19	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering				
(i)	Ratio 1:4:8 (For Lean)	Cum	100	3,987.30	398,730
(ii)	Ratio 1:3:6 (For Edge Block)	Cum	24	4,448.68	106,768
(iii)	Ratio 1:2:4 (For A1 Concrete)	Cum	50	5,096.56	254,828
	(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)				
TOTAL BILL NO. 1 : CARRIAGEWAY (SCHEDULE)					22,519,084
TOTAL OF BILL NO. 01 CARRIAGEWAY (SCHEDULE ITEM) i/c %					22,519,084
	<u>NON SCHEDULE ITEMS</u>				
SP-217a	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 60 (mm) of city / quddra / cobble shape with natural colours, having strength b/w 5000 psi to 8500 psi I/c filling the joints with hill sand and laying in specified manner/ pattern and design etc: complete.	Sqm	960	1,418.50	1,361,760
SP-309b	Cold Milling Cold Milling, 0-50mm	Sqm	1,000	134.72	134,720
SP-309c	Cold Milling Cold Milling, 51-70mm	Sqm	1,000	202.48	202,480
TOTAL BILL NO. 1 : CARRIAGEWAY (NON-SCHEDULE)					1,698,960
TOTAL BILL NO. 1 : CARRIAGEWAY (SCHEDULE + NON-SCHEDULE)					24,218,044

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BILL OF QUANTITIES

BILL NO. 02 SECURITY CHECK POST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
1	EARTH WORK All items under this head to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, complete in all respect to the entire satisfaction of the Engineer, and following Sections of the Technical Specifications. Rates shall be applicable on all types of building/structures shown in the drawings under this contract.				
1.1.1	Excavation including site clearing, grubbing & setting out the work for foundations, trenches in all kinds of soil including soft, wet silt, clay or mud and shoring work if required, Back filling the selected excavated material in foundation & Plinth including breaking clods, watering, consolidation by ramming in layers not exceeding 6" in depth to full compaction, 95% ASHTO density, dressing and disposal of surplus excavated stuff upto any lead and lift etc, complete in all respect, as per specifications & relevant drawings and to the entire satisfaction of the Engineer.				
a	For Foundation etc.	Cum	30	353.20	10,596
	DEWATERING The Contractor shall control the grading in the vicinity of site of work in order to prevent any water from running into the excavated areas. He shall at his own cost keep dry all pits and trenches during construction and all dewatering and pumping out whether due to ground water seepage or otherwise shall be included in the rates as quoted by the Contractor. The method employed in all cases shall be approved and agreed by the Engineer or his Representative.				
i	Dewatering during construction of the Sub Structure until achieving the load of the total structure equal to the up the thrust of the under ground water as directed by the Engineer incharge.	P.Day	60	1,500.00	90,000

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BILL NO. 02 SECURITY CHECK POST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
1.1.3	Supplying and filling earth filling under floor/ foundation (Engineer's fill) borrowed from approved out side source, including breaking clods, leveling, dressing, watering and consolidating in 9" layers etc and to obtain 95% modified AASHTO density. Complete				
	Earth filling under floor	Cum	4	565.12	2,260
	Engineer's fill	Cum	18	565.12	10,172
2	SUB STRUCTURE				
	CONCRETE WORKS				
2.1.1	Providing and laying plain cement concrete Class "E" (1:4:8) in foundation, under plinth having a minimum works cylindrical crushing strength of 1500 lbs. per sq. inch at 28 days, for blinding or under floors where required using Sulphate Resistant Cement, approved quality 25mm maximum size graded crushed stone or gravel with approved quality sand including all formwork as specified, mechanically vibrating, leveling, compacting and curing etc, complete in all respect, as per specifications & relevant drawings and all works to be carried out the entire satisfaction of the Engineer.				
i	Below foundation, plinth beam, and floor where required etc.	Cum	4	4,732.88	18,932

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BILL NO. 02 SECURITY CHECK POST

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
2.1.2	Providing and laying Reinforced Cement Concrete of cylindrical compressive strength (as specified below in RCC members) at 28 days using Sulphate Resistant Cement approved quality 1" maximum size graded crushed aggregate and fine aggregate including approved quality formwork as specified and its removal, all operations of mechanically vibrating, leveling, consolidating and curing etc upto any height & levels., etc, complete in all respect, as per specifications & relevant drawings and to the entire satisfaction of the Engineer, but excluding the cost of reinforcement.				
i	Footing (3000 Psi)	Cum	4	6,498.88	25,996
ii	Column upto Plinth Level (3000 Psi)	Cum	2	8,865.32	17,731
iii	Plinth Beam (3000 Psi)	Cum	3	8,865.32	26,596
	REINFORCEMENT				
2.1.3	Providing, supplying, cutting, fabricating, placing and installing in position etc., straight or curved hot rolled or cold-worked deformed bar with minimum yield strength of 60,000 psi (414 Mpa) including cost of 18 Swg GI binding wire, chairs, wastages, precast c.c. spacers and welding where required by the Engineer, as per ASTM standard. Only the overlaps which are shown on drawings or instructed by the Engineer shall be payable as per BSI 4466 complete and specifications for all kind of R.C.C. work. Bars to be cut and placed in position as per drawings at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer.				
i		Ton	2	100,034.00	200,068
2.1.4	MOISTURE PROTECTION				
	Providing and applying industrial bitumen paint (7 kg / 100 sqft) mixed with waterproofing component 2 coats on all blinding /structural surfaces under foundation plinth level etc, complete in all respect, as per specifications & relevant drawings and to the entire satisfaction of the Engineer.	Sqm	73	269.00	19,637

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
3	SUPER STRUCTURE				
3.1.1	Providing and laying Reinforced Cement Concrete of cylindrical compressive strength (as specified RCC members) at 28 days using O.P. Cement approved quality 1" maximum size graded crushed aggregate and fine aggregate including approved quality formwork as specified and its removal, all operations of mechanically vibrating, leveling, consolidating and curing upto any height & levels etc, complete in all respect, as per specifications & relevant drawings and all works to the satisfaction of the Engineer, but excluding the cost of reinforcement.				
	Columns - (3000 Psi)	Cum	7	7,841.04	54,887
	Beams (3000 Psi)	Cum	3	9,536.40	28,609
	Slab i/c projection (3000 Psi)	Cum	6	8,406.16	46,234
3.1.2	Providing, supplying, cutting, fabricating, placing and installing in position etc., straight or curved hot rolled or cold-worked deformed bar with minimum yield strength of 60,000 psi (414 Mpa) including cost of 18 Swg GI binding wire, chairs, wastages, precast c.c. spacers and welding where required by the Engineer, as per ASTM standard. Only the overlaps which are shown on drawings or instructed by the Engineer shall be payable as per BSI 4466. Complete as per drawing and specifications for all kind of R.C.C. work. Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer.				
i	Super Structure	Ton	2	100,034.00	200,068

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
4	MASONRY WORK				
4.1.1	Solid Block Masonry walls Providing and laying machine made solid Block (800 psi minimum individual strength for internal walls and 1000 psi minimum individual strength for external walls) non-load bearing block masonry of approved quality (average strength to be as per ASTM standards), setting the blocks in 1:6 cement sand mortar, raked joints including curing, scaffolding, wedges, strips, M.S. anchors from RCC columns / walls at every third layer horizontally and 1 meter vertically, installing of wooden / PVC / steel sleeves for openings (sleeves to be provided by utility Contractors), hacking of existing surface for bonding where necessary, etc. complete in all respect as per specifications and drawings and to the entire Engineer.				
i	6" thick	Sqm	14	860.80	12,051
5	METAL WORK				
5.1.1	Providing, making & fixing in position ladder as shown on drawing & design including all required hardware's, three coats of approved color shade enamel paint over a coat of red oxide paint complete in all respect as per drawing, specifications and entire satisfaction of the Engineer.	Each	26	1,500.00	39,000
6	WATER PROOFING AND ROOF PROTECTION				
6.1.1	Provide and lay roof treatment over roof (Avg 1" thick C.C screeding/plaster finish) as per specifications and shown in drawings and details. (For payment screed area will be measured)	Sqm	31	848.20	26,294
7	FLOORING				
7.1.1	Providing and laying overall 2-1/2" thick cement concrete floor (1:2:4) cast in place, steel trowel finished maintaining proper level with curing etc. where required, complete all works to be carried out the satisfaction of the Engineer.	Sqm	8	699.40	5,595

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
8	WALL FINISH				
8.1.1	Providing and applying 1/2" thick cement plaster on walls, columns, beams, chajjes etc. with cement mortar 1:6 including all corners, recesses, jambs, raking out joints of masonry, scaffolding, making drip courses, curing etc. nailing 9" wide heavy duty metal lath strip nailed at junction of RCC & masonry, corner beads on corners etc, complete in all respect, as per specifications & relevant drawings and to the entire satisfaction of the Engineer.	Sqm	14	322.80	4,519
9	DIVISION 9 - INTERNAL CEILING FINISHES				
9.1.1	Providing and applying 1/2" thick cement plaster to ceiling, soffits of beams and chajjes and wherever required with cement mortar 1:6 (one part of cement Six part of sand) including all corners, recesses, jambs and raking out joints of masonry, roughing the surface and cement slurry backing to all surfaces, all finished smooth, curing etc.complete, with rounding of corners at junctions as specified, including all scaffolding and also including 9" wide heavy duty metal lath strip at the joints of masonry and concrete members etc, complete in all respect, as per specifications & relevant drawings and to the entire satisfaction of the Engineer.	Sqm	18	322.80	5,810
9.1.2	Providing and applying painting on all internal ceiling surface with Berger Robbialac or equivalent Oil Bound Distemper of approved shade three coats over and including a coat of primer over plastered surface at any height in any floor including preparation of surface, filling depression with putty, rubbing, sand papering and cleaning etc, complete in all respect, as per specifications & relevant drawings and to the entire satisfaction of the Engineer.	Sqm	32	322.80	10,330

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SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
10	EXTERNAL FINISHES & DEVELOPMENTS				
10.1.1	Providing and applying 3/4" thick cement plaster on external surfaces wall, ceiling, soffits of beams and hajjes and wherever required with cement mortar 1:4 (one part of cement four part of sand) including all corners, recesses, jambs and raking out joints of masonry, roughing the surface and cement slurry backing to all surfaces, all finished smooth, curing etc.complete, with rounding of corners at junctions as specified, including all scaffolding and also including 9" wide heavy duty metal lath strip at the joints of masonry and concrete members corner beads on corners etc, complete in all respect, as per specifications & relevant drawings and to the entire satisfaction of the Engineer.	Sqm	121	430.40	52,078
10.1.2	Providing and applying painting on all external surface with Berger Robbialac or equivalent weather shield of approved shade three coats over and including a coat of primer over plastered surface at any height in any floor including preparation of surface, filling depression with putty, rubbing, sand papering and cleaning etc, complete in all respect, as per specifications & relevant drawings and all works to be carried out the satisfaction of the Engineer.	Sqm	121	376.60	45,569
10.1.3	Providing, making and laying Plinth Protection detail shown in drawing and specified etc. complete in all respect as per specifications and relevant drawings, all works to be carried out according to the satisfaction of the Engineer.	Sqm	20	1,614.00	32,280
TOTAL OF BILL NO. 02 SECURITY CHECK POST					985,312

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BILL OF QUANTITIES

BILL NO. 03 STORM WATER DRAINAGE SYSTEM

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	SCHEDULE ITEMS				
1	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 Vol-III, Part-II, Chap-1, Pg-4, Sr. 18b)	M3	223	112.19	25,018
2	Re filling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction ect complete Vol-IV, Part-VI, Chap-II, Pg-77, Sr. 24 (PHW)	M3	41	97.46	3,996
3	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering (i) Ratio 1:4:8 (For Lean) (ii) Ratio 1:2:3 (For A3 Concrete) (iii) Ratio 1:2:4 (For A1 Concrete) (Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)	M3	14	3,987.30	55,822
			71	5,579.73	396,161
		M3	20	5,096.56	101,931
4	Reinforced Cement concrete plain 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)				
a	Precast reinforced cement concrete (ii) Ratio 1:1/2:3 (For Precast concrete class A3) (Vol-III, Part-II, Chap-4, Pg-16, Sr. 6a (ii) ii)	Cum	23	11,364.91	261,393
5	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 (Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a)	Cwt.	180.00	5,001.00	900,180
TOTAL OF BILL NO. 03 STORM WATER DRAINAGE SYSTEM PART A SCHEDULE ITEMS					1,744,501

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BILL NO. 03 STORM WATER DRAINAGE SYSTEM

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	NON-SCHEDULE ITEMS				
	PVC Water Stop 200mm Size	R.m	582	729.01	424,284
	STEEL GRATING WITH FRAME				
	Manufacturing, supplying & fixing steel grating having				
	Vertical Steel Grating	Nos.	58	1,507.20	87,418
	BITUMEN COATING OF DRAIN				
	Providing and applying bitumen paint/coating (Coverage 7 Kg / 10 Sqm) mixed with water component 2 coats on all RCC / CC structural member surfaces contact with earth up to NGL level etc., complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	SM	270	321.16	86,714
	Connection with EXISTING DRAIN				
	Making connection with existing drain including removing of debris & demolished material, excavation, stone pitching, RCC works i/c steel reinforcement, etc. complete in all respect as per drawings, specifications and as directed by Engineer	Job	1	200,000.00	200,000
	DEMOLISHING OF EXISTING PEDISTRIAN BRIDGE & STORED TO A DESIGNATED PLACE BY THE ENGINEER INCHARGE	Job	1	2,500,000.00	2,500,000
	CLEANING and Rehabilitation of EXISTING PIPE DRAIN	Job	1	400,000.00	400,000
	Making connection with existing drain including removing of debris & demolished material, excavation, stone pitching, RCC works i/c steel reinforcement, etc. complete in all respect as per drawings, specifications and as directed by Engineer				
TOTAL OF BILL NO. 03 STORM WATER DRAINAGE SYSTEM PART B NON SCHEDULE ITEMS					3,698,416
TOTAL OF BILL NO. 03 STORM WATER DRAINAGE SYSTEM PART A + B (SCHEDULE ITEMS NON SCHEDULE ITEMS)					5,442,917

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BILL NO. 04 PEDESTRIAN BRIDGE

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>PEDESTRAIN BRIDGE</u>				
	<u>SCHEDULE ITEMS</u>				
1	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 (Vol-III, Part-II, Chap-1, Pg-4, Sr. 18b)	M3	115	112.19	12,902
1	Re filling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction ect complete (Vol-IV, Part-VI, Chap-II, Pg-77, Sr. 24 (PHW)	M3	87	97.46	8,479
	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering				
(i)	Ratio 1:4:8 (For Lean)	M3	5	3,987.30	19,937
(ii)	Ratio 1:2:3 (For A3 Concrete)	M4	24	5,579.73	133,914
(iii)	Ratio 1:2:4 (For A1 Concrete)	M3	10	5,096.56	50,966
	(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i)				
	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 (Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a)	Cwt.	80.00	5,001.00	400,080
	<u>NON SCHEDULE ITEMS</u>				
SP-404h	Reinforcement (Structural Shapes) as per ASTM A36	Tons	32	140,844.42	4,441,036
SP-303	Providing and Fixing Stair Railing of G.I Pipe, welded with Square M.S bars ,fixed in each step , complete in all respects. Including painting, polishing three coats	M	63	2,649.00	166,675
SP-304	6mm Thk. Chequer Plate	Sq.m	77	6,380.00	491,751
SP-305	Making Bolts of Iron Rods (Market Rates)	Ton	0.35	162,506.50	56,877
SP-306	Applying Polyurethane paint to Steel members including sand blasting	Sq.m	864	780.00	673,753
SP-307	Fiber Glass Canopy as per specialist (Market Rates)	Sq.m	77	2,500.00	192,693
SUB TOTAL BILL NO. 4 PEDESTRAIN BRIDGE					6,636,161

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BILL OF QUANTITIES

SR. #	Description	Unit	Quantity	Rate	Amount (Rs)
	<u>PEDESTRAIN BRIDGE (RAMP STAIRS)</u>				
	<u>SCHEDULE ITEMS</u>				
1	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 (Vol-III, Part-II, Chap-1, Pg-4, Sr. 18b)	M3	35	112.19	3,927
2	Re filling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction ect complete (Vol-IV, Part-VI, Chap-II, Pg-77, Sr. 24 (PHW) Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering	M3	16	97.46	1,559
(i)	Ratio 1:4:8 (For Lean)	M3	2	3,987.30	7,975
(ii)	Ratio 1:2:3 (For A3 Concrete)	M3	12	5,579.73	66,957
(iii)	Ratio 1:2:4 (For A1 Concrete)	M3	10	5,096.56	50,966
	(Vol-III, Part-II, Chap-4, Pg-16, Sr. 5-f, h & i) 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 (Vol-III, Part-II, Ch-2, Pg-17, Sr. 8 a)	Cwt.	40.00	5,001.00	200,040
	<u>NON SCHEDULE ITEMS</u>				
SP-404h	Reinforcement (Structural Shapes) as per ASTM A36	Tons	21	140,844.42	2,957,733
SP-303	Providing and Fixing Stair Railing of G.I Pipe, welded with Sqaure M.S bars ,fixed in each step , complete in all respects. Including painting, polishing three coats	M	74	2,649.00	197,086
SP-304	6mm Thk. Chequer Plate	Sq.m	51	6,380.00	326,337
SP-305	Making Bolts of Iron Rods (Market Rates)	Ton	0.35	162,506.50	56,877
SP-306	Applying Polyurethane paint to Steel members including sand blasting	Sq.m	307	780.00	239,382
SUB TOTAL COST OF BILL NO. 4 PEDESTRAIN BRIDGE (RAMP STAIRS)					4,108,839
FOR EACH TOTAL COST OF BILL NO. 4 PEDESTRAIN BRIDGE & RAMP STAIRS					10,745,000

SEAL OF THE COMPANY

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