

**INTERNAL DEVELOPMENT WORKS
(ROAD, WATER SUPPLY AND SEWERAGE)
SHAHEED MOHTERMA BENAZIR BHUTTO TOWN, MEHAR
CONTRACT PACKAGE NO. SMBBT/MHR/INF-001**

BILL OF QUANTITIES

SUMMARY OF BILLS

BILL No.	DESCRIPTION	TOTAL (Rs.)
1.	ROAD WORKS	
2	SEWERAGE	
3	WATER SUPPLY	
4	CIVIL WOR GATE OFFICE	
5	ELECTRICAL	
	TOTAL COST OF PROJECT	

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Bill No. 1 : ROAD WORKS

Item #	Item Description	Unit	Estimated Qty.	Rate	Amount
101	Clearing & Grubbing	Sq.ft.	236,790	2.34	554,089
104	Compaction of Natural Ground	Sq.ft.	236,790	2.57	608,550
106a	Excavate Unsuitable Common Material	Cu.ft.	10,000	10.28	102,800
108c	Formation of Embankment from borrow Excavation in common material	Cu.ft.	1,146,090	12.66	14,509,499
108c i	Formation of Embankment from borrow Excavation in Sand material	Cu.ft.	273,910	12.66	3,467,701
109a	Sub grade preparation in earth cut	Sq.ft.	70,000	7.15	500,500
201	Granular Sub-base	Cu.ft.	67,573	48.34	3,266,479
202	Aggregate Base Course	Cu.ft.	23,209	61.23	1,421,087
305b	Asphaltic Wearing Course - Class B	Cu.ft.	4,504	577.31	2,600,204
206b	Water Bound Macadam Base with Coarse Aggregate Class B	Cu.ft.	50,253	58.52	2,940,806
302a	Cut Back Asphalt for Bituminous Prime Coat	Sq.ft.	34,640	11.39	394,550
304a	Single Surface Treatment including Bitumen prime coat	Sq.ft.	100,506	21.47	2,157,864
401b	Concrete Class "B" (For Edge Block)	Cu.ft.	766	320.61	245,587
Total Bill No. 1 : ROAD WORKS					32,769,716
We Quote% above/below on schedule items					
Total Bill No. 1 : ROAD WORKS					

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BILL OF QUANTITIES

Bill No.2 : SEWERAGE

<i>Refrance</i>	Item.	Item Description	Unit	Estimated	Rate	Amount
		PART-A (Schedule Items)				
	1	EXCAVATION				
Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012	1.1	Excavation for pipe line in trenches, and pits in all kind of soils i/c trimming and dressing sides to true alignment and shape, leveling of beds of trenches to correct level and grade cutting joints holes and disposal of surplus earth with in a one chain as directed by the Engineering Incharge, providing fence guard light flags and temporary crossing for non vehicular traffic where ever required lift upto 5 ft (1.52 m) and lead upto one chain (30.5 m) 0'-0" to 5'-0"	%0Cft	108,748	4,650.00	505,678
Item # A-16, Pg # 74 , PHEW. Chn.	1.1.1	Add for extra lift of every 3ft of part there of in item of all kinds of excavation 5ft to 8ft 5ft to 8ft	%0Cft	16,089	5,200.00	83,663
	2	BACKFILLING				
Item # 24, Pg # 77 , PHEW, Chp. II, Vol. IV, Part VI	2.1	Refilling the excavated stuff in trenches in 6" thick layer including watering, ramming to full compaction etc complete.	%0Cft	111,547	2,760.00	307,870
	3	DEWATERING				
Item #23 i, Pg # 76 , PHEW, Chp. II, Vol. IV, Part VI- CSR 2012	3.1	Dewatering of trenches including cost of all labour, material and equipment/machinery POL required for dewatering of trenches, also including the cost of disposal of water to suitable place etc complete in all respect as per specification and directed by the Engineer Incharge (provisional).	Days	30	1,500.00	45,000

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BILL OF QUANTITIES

Bill No.2 : SEWERAGE

Refrance	Item.	Item Description	Unit	Estimated	Rate	Amount
	4	CONSTRUCTION OF MANHOLE				
	4.1	EXCAVATION				
Item #.A, 5, Pg. 62, PHEW. Chp. II, Vol. IV, Part VI- 2012		Excavation for tanks and reservoir in all kind of soils i/c trimming and dressing sides to true alignment/design section/profiles and shape, leveling of beds of trenches to correct level and grade i/c laying of earth in 6" layer for construction of banks and dressing and disposal of surplus earth. with in a one chain as directed by the Engineering Incharge, providing fence guard light flags and temporary crossing for non vehicular traffic where ever required lift upto 5 ft (1.52 m) and lead upto one chain (30.5 m)				
		0'-0" to 5'-0"	%0Cft	6,542	4,650	30,420
Item # A-16, Pg # 74 , PHEW. Chp. II, Vol. IV, Part VI-		Add for additional lift of every three ft. or part there of in item No. 1 to 15 (A & B) for excavation for pipeline & storage tanks main hole trenches and pits				
	4.1.1	5'-0" to 8'-0"	%0Cft	15,059	5,200	78,307
	4.2	CONCRETE WORKS				
Item # 5 i, Pg # 16 , Gernal. Chp.		Cement concrete plain including placing compacting, finishing and curing, complete including screening and washing of stone aggregate without shuttering. (Ratio 1:4:8)	%Cft	507	11,289	57,234
Item # 6 a(I), Pg # 17, Gernal. Chp. 4, Vol. III, Part II- CSR 2012	4.2.1	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid seperately.This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle).RC work in roof slab,beams,columns rafts.Lintels and other structural members laid in situ or precast laid in position completed in all respected. Ratio (1:2:4) 90 Lbs cement 2Cft sand 4Cft shingle 1/8" to 1/4" gauge complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer. (Ratio 1:2:4)				
		Wall/Bed	Per Cu.ft	8,844	337	2,980,428

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Bill No.2 : SEWERAGE

Refrance	Item.	Item Description	Unit	Estimated	Rate	Amount
Item # 9, Pg # 71, Gernal, Chp. 4, Vol. III, Part II- CSR 2012	4.3	BITUMEN COATING Bitumen coating to plastered or cement concrete surface, complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer.	%Sft.	10,329	778	80,369.00
Item # 8 b, Pg # 17, Gernal, Chp. 4, Vol. III, Part II- CSR 2012	4.4	STEEL REINFORCEMENT Providing and fabrication of steel reinforcement for cement concrete, including cutting, bending, laying in position, ranking joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars). The rate includes wastage, overlaps and chairs etc. Deformed bars (60,000 psi).				
	4.4.1	b) Using Tor Bars	Per Cwt.	36.50	5,002	182,562
Item # B 1, Pg # 56, PHEW. Chp.	4.5	WATER STOPPER Providing " expansion joint" in concrete work of 9" wide corugated PVC water Stoper (with Bulb) i/c Soldring cost of matrial and labour etc. complete.	R.ft	1,462	463	676,906
Item #. 1, Pg # 31, PHEW, Chp. 17, Vol. III, Part V-B,	4.6	Manufacturing and supply RCC manhole covers cast in 1:2:4 concrete ratio using SRC, 3 inch deep at center reinforced with 3/8" dia tor steel bars at 4" c/c welded to 1/8" thick 2.5 inch deep M.S plate including curing stacking and transportation with in 10 miles.				
		a) 21" dia	Each	76	914	69,436
Item #. B 1a, b, Pg # 17, PHEW, Chp. 17, Vol. IV,	5	RCC PIPES				
	5.1	Providing RCC pipe of ASTM C-76-62T/C-76-70 with rubbering class-II wall B and fixing in trenches including cutting fitting and jointing with rubber rings including testing with water to spcified pressure. (Using SR Cement)				
		i) 8in dia RCC	Rft	5,873	229	1,344,917
		ii) 6in dia RCC	Rft	1,250	189	236,250
Item #. C 1, Pg # 56, PHEW, Chp. 17, Vol. IV,	6	GRANULAR BEDDING				
	6.1	Providing, spreading, and consolidating of granular bedding material of approved quality including watering etc .complete in all respect as per drawings and specification and as directed by the Engineer Incharge.	%Cft	15,885	11,036	1,753,069.00
Sub Total of Part of "A"						8,432,109
We Quote% above/below on schedule items						
Bill No.2: SEWERAGE						

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BILL OF QUANTITIES

Bill No.3 : WATER SUPPLY

Refrance	Item.	Item Description	Unit	Estimated	Rate	Amount
		PART-A (Schedule Items)				
	1	EXCAVATION				
Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012	1.1	Excavation for pipe line in trenches, and pits in all kind of soils of murum i/c trimming and dressing sides to true alignment and shape, leveling of beds of trenches to correct level and grade cutting joints holes and disposal of surplus earth with in a one chain as directed by the engineers incharge providing fence guard light flags and temporary crossing for non vehicular traffic where ever required lift up tp 5 ft (1.52 m) and lead upto one chain (30.5 m)	%0Cft	91,792	4,650	426,833
	2	SAND BEDDING				
Item # 29, Pg # 26, Gernal, Chp. 5, Vol. III, Part II- CSR 2012		Supply/Stacking and filling sand of approved quality from out side sources in foundation trenches including dressing,watering & consolidation..	%Cft	10,735	1,141	122,513.00
	3	BACKFILLING				
Item # 24, Pg # 77 , PHEW, Chp. II, Vol. IV, Part VI- CSR 2012		Refilling the excavated stuff in trenches 6" thick layer i/c watering ramming to full compaction etc complete in all respect as per drawing and approval of the Engineer Incharge.	%0Cft	80,482	2,760	222,130
	4	PIPES (uPVC)				
Item # E 2b,c & e Pg # 22, PHEW, Chp. 17, Vol. IV, Part VI, 2012		Providing uPVC pipes fixing in trench i/c cutting fitting and jointing with rubber ring (Z- joint) i/c testing with water to head 91.5 meter or 300 ft.				
	4.1	3" dia (Class C)	R ft.	5,900	107	631,300
	4.2	4" dia (Class C)	R ft.	2,160	174	375,840
	4.3	6" dia (Class C)	R ft.	140	373	52,220

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Bill No.3 : WATER SUPPLY

<i>Refrance</i>	Item.	Item Description	Unit	Estimated	Rate	Amount
Item # 5 f, Pg # 16, Gernal, Chp. 4, Vol. III, Part II- CSR 2012	5	THRUST BLOCKS Cement Concrete Plain in 1:2:4 using SRC, including placing compacting finishing and curing complete in all respect as per drawing and approval of the Engineer Incharge				
			%Cft	137	14,429	19,768.00
Item # 5 f, Pg # 16, Gernal, Chp. 4, Vol. III, Part II- CSR	6	PIPE SURROUND Constructing of surround pipe and pipe support in concrete CC 1:2:4 using SRC, including cost of formwork and curing etc. complete in all respect as per instruction of engineer in charge and specification.				
			%Cft	2,650	14,429	382,375.00
		Sub-Total (Part-A)				2,232,979

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Bill No.3 : WATER SUPPLY

<i>Refrance</i>	Item.	Item Description	Unit	Estimated	Rate	Amount	
		PART-B (Non - Schedule Items)					
	1	FITTINGS (uPVC) Providing and fixing ,uPVC Bell End fitting with rubber ring (Z-joint), with no welded joint, compatible to BSS etc in trenches to correct alignment and grade complete in all respect as indicated in the drawing and specifications and all other accessories and equipment required for laying and jointing testing etc.					
	1.1	TEE (EQUAL & UNEQUAL)					
		i) 4" X 4" X 3"	Nos	10			
		ii) 3" x 3" x 3"	Nos	17			
	1.2	END PLUG (Provisional)					
		i) 3" dia	Nos	3			
		ii) 4" dia	Nos	6			
		iii) 6" dia	Nos	5			
	1.3	REDUCERS					
		i) 4"X 3"	Nos	6			
		ii) 6"X 4"	Nos	2			
	1.4	BEND					
		i) 3" dia	Nos	3			
		ii) 4" dia	Nos	1			
						Sub Total of Part of "B"	
						Sub Total of Part of "A"	
						2,232,979	
		We Quote% above/below on schedule items					
		Bill No.3: WATER SUPPLY (Total of Part of "A" and "B")					

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BILL OF QUANTITIES

Bill No.4: CIVIL WORKS ENTRANCE GATE

Sr. No	ITEMS REF. No	DESCRIPTION	QTY	UNIT	RATES (Rs.)	AMOUNT
		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 Employer, and following Sections of the Technical				
		PART-A (SCHEDULE ITEMS)				
		EARTHWORK				
1	18(b & c)/P-4,5 Vol-III, Part-II	Excavation in foundation of building, bridges and other structures including dagbelling dressing refilling around structure with (suitable) excavated earth watering, ramming complete and disposal of surplus excavated material to designated area i/c all lead & lift.etc, complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer. b) In Ordinary Soil c) In Hard Soil or Soft murum	470 160	% O Cft % O Cft	3,659.04 4,099.48	1,720 656
2	22/P-5 Vol-III, Part-II	Filling watering and ramming earth under floor with new earth excavated from outside lead upto one chain and lift upto 5 feet.	215	% O Cft	4,167.24	896
		CONCRETE WORKS				
3	5(a)/P-18 Vol-III, Part-II	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate without shuttering. <i>(Ratio 1:4:8)</i> i) Below foundation, plinth beam and floor etc. ii) Below floor finish	50 5	% Cft % Cft	12,095.16 12,095.16	6,048 605
		REINFORCED CEMENT CONCRETE (SU				
4	6(ai)/P-18,19 Vol-III, Part-II	Reinforced cement 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 kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle). RC work in roof slab, beams, columns, rafts. Lintels and other structural members laid in situ or precast laid in position completed in all respect. Ratio (1:2:4) 90 Lbs cement 2Cft sand 4Cft shingle 1/8" to 1/4" gauge complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer. <i>(Ratio 1:2:4)</i> i) Footing ii) Column upto Plinth Level iii) Plinth Beam	115 100 35	Per Cft Per Cft Per Cft	319.20 319.20 319.20	36,708 31,920 11,172
		REINFORCEMENT				
5	7(b)/P-20 Vol-III, Part-II	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.) b) Using Tor Bars <i>(Reinforcement of Sub Structure)</i>	13	Per Cwt	7,763.14	100,921

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BILL OF QUANTITIES

Bill No.4: CIVIL WORKS ENTRANCE GATE

Sr. No	ITEMS REF. No	DESCRIPTION	QTY	UNIT	RATES (Rs.)	AMOUNT
6	92 /P-115 Vol-III, Part-II	TERMITE PROOFING Providing Anti-termite treatment by spraying/sprinkling/spreading Neptach lar 0.5% Emulsion as an over all preconstruction treatment in slab type construction under the slab and along attach porches or entrances etc, complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer. <i>(Plinth area will be measured one time for payment whereas the number of applications will be three times on all horizontal & vertical surfaces of the excavations for termite proofing).</i>	100	Per Sft	11.65	1,165
7	9/P-77 Vol-III, Part-II	BITUMEN COATING Bitumen coating to plastered or cement concrete surface, complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer. i) Over Blinding ii) On structures side and top	70 560	% Sft % Sft	525.17 525.17	368 2,941
8	6(ai) /P-18,19 Vol-III, Part-II	REINFORCED CEMENT CONCRETE (SU Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid seperately.This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle).RC work in roof slab,beams,columns rafts.Lintels and other structural members laid in situ or precast laid in position completed in all respected.Ratio (1:2:4) 90 Lbs cement 2Cft sand 4Cft shingle 1/8" to 1/4" gauge complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer. <i>(Ratio 1:2:4)</i> i) Columns ii) Roof Beams & lintels iii) Roof Slab	295 260 290	Per Cft Per Cft Per Cft	319.20 319.20 319.20	94,164 82,992 92,568
9	7(b) /P-20 Vol-III, Part-II	REINFORCEMENT 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.) b) Using Tor Bars <i>(Reinforcement of Super-Structure)</i>	46	Per Cwt	7,763.14	357,104
10	5(i)c /P-25 Vol-III, Part-II	MASONRY WORK Brick Masonry walls Provide and laying Pacca Brick work masonry wall of all thickness set in 1:4 cement sand mortar in ground floor super structure including racking out joints & curing etc. complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer.	230	% Cft	12,688.06	29,183

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Bill No.4: CIVIL WORKS ENTRANCE GATE

Sr. No	ITEMS REF. No	DESCRIPTION	QTY	UNIT	RATES (Rs.)	AMOUNT
		ROOF SCREEDING AND WATERPROOFING				
11		Provide and lay roof treatment over roof & skirting as per specifications and shown in drawings and details consisting of				
a	13/P-41 Vol-III, Part-II	Two coats of bitumen laid hot using 34 lbs for % sft over roof and blinded with sand at one cft per % sft	546	% Sft	1,207.39	6,592
b	38/P-44 Vol-III, Part-II	Providing and laying single per layer of polythene sheet 0.13mm thick for water proofing as per specification and instruction of	546	Per Sft	10.19	5,565
c	16(d)/P-47 Vol-III, Part-II	Providing and laying 1" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels.				
		(d) 3" thick (1:2:4) Roof screeding	546	% Sft	5,096.64	27,828
12	13(c)/P-58 Vol-III, Part-II	Providing and applying 3/4" thick cement plaster upto 20' height on walls, columns, beams, chajjas 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, etc, complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer	1,165	% Sft	1,985.06	23,126
13	38(a & b)/P-61 Vol-III, Part-II	Providing and applying preparing the surface and painting with weather coat paint of approved make i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk/plaster of paris and then painting (1st coat, 2nd & subsequent coat) etc, complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer. <i>(New Surface)</i>	1,165	% Sft	2,248.74	26,198
		EXTERNAL FINISHES & DEVELOPMENTS				
14	62/P-54 Vol-III, Part-II	Providing and laying Hala pattern tiles glazed 8"x8"x1/4" on floor or wall facing in required pattern of stile or other equivalent approved specification jointed in white cement and pigment over a base of 1:2 grey cement mortar 3/4" thick including washing and filling joints with slurry of white cement and pigment in desired shape with finishing cleaning and cost of wax polish including cutting tiles to proper profile etc, complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer	355	% Sft	34,471.50	122,374
Total Amount of Schedule Items Rs.						1,062,812

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Bill No.4: CIVIL WORKS ENTRANCE GATE

Sr. No	ITEMS REF. No	DESCRIPTION	QTY	UNIT	RATES (Rs.)	AMOUNT
PART-B (NON-SCHEDULE ITEMS)						
15	RA	Providing and laying stone soling 6" thick from approved quarry including hand packing & filling voids with spraws & chips, consolidating & compacting with power or hand roller, etc, complete in all respect, as per specifications & relevant drawings and all works to be carried out the satisfaction of the Engineer.	60	Sft		
16	RA	Providing, making and fixing in position steel barrier manually operated as per drawing including enamel paint , required hardware etc complete in all respect as per drawing, specifications and to the entire satisfaction of the Engineer.	1	Nos		
17	R.A	Lettering on Crown over Rcc slab parapet	42	Sft		
Total Amount of Non-Schedule Items Part-B Rs.						
Total of Part-A Rs.						1,062,812
We Quote% above/below on schedule items						
Total of Part-A+B Rs.						
Total Bill No.4: CIVIL WORKS ENTRANCE GATE						

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BILL OF QUANTITIES

Bill No.5: ELECTRICAL WORKS

Item No.	Item Description	Unit	Estimated Quantity	Rate (Rs.)	Amount (Rs.)
1	L.V. SWITCH BOARDS / DISTRIBUTION BOARDS				
1.01	Supply, installation, testing & commissioning of following wall mounting recessed type Distribution Boards (DB's) made with 16 SWG sheet metal, dust protected (IP 65 or higher), vermin proof housing coated with approved color having all the necessary switching and protections, as per specification complete in all respect. i) DB-G	Nos.	1		
02	CONDUITS & PIPES				
02.01	Supply & installation of following PVC / M.S. / G.I conduit as race ways with all accessories recessed/ surface on wall / column / under floor for Power, Tel & Data, Fire alarm, CCTV, etc. As per relevant specification, complete in all respect. i) 25 mm dia PVC pipe	RM	70		
2.02	Providing and laying of following size uPVC class D conduit for LV power cables buried in ground / under roads / under floor, including excavation for laying of conduit, bricks, warning tape, and backfilling with new and fresh soil etc. as per specification. and as shown on drawing complete in all respect. i) 50mm dia uPVC	RM	10		
3	LIGHTING FIXTURES & WIRINGS				
3.01	Supply, installation, testing and commissioning of following light fixtures complete with starters, Electronic ballast (mention otherwise), lamps, mounting accessories etc. complete in all respects. Lighting fixtures Sample must be submitted to consultant for approval, (For complete detail references of Light Fixtures, please refer to Light Fixture Schedules). i) Surface mounted weather proof downlight fixture with 1 x 26 W CFL lamp ii) Flood light fixture with 1x400W SON-T lamp	Nos.	12		
3.02	Supply, laying, testing and commissioning of following wiring items complete with cables & wires, conduiting accessories, with 3x2.5sqmm cable from DB to fixture in 25 mm dia PVC conduits per drawings and specifications, complete in all respects.	Nos.	3		
3.03	Supply, installation, testing & commissioning of wiring from light point to point with 3x2.5 sq.mm. single core PVC insulated wires in 25 mm dia. PVC conduit surface / recessed in wall, column, ceiling, etc., including related civil works, complete with all conduit accessories as per specification.	Nos.	3		
Total Bill No.5: ELECTRICAL WORKS					

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