

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

**BILL OF QUANTITIES**

**SUMMARY OF BILLS**

<b>BILL No.</b>	<b>DESCRIPTION</b>	<b>TOTAL (Rs.)</b>
1.	ROAD WORKS	
2	SEWERAGE	
3	WATER SUPPLY	
	<b>TOTAL COST OF PROJECT</b>	

<b>SEAL OF THE COMPANY</b>
<b>INITIAL</b>

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**SIGNATURE OF BIDDER**

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**BILL OF QUANTITIES**

**Bill No. 1 : ROAD WORKS**

Item #	Item Description	Unit	Estimated Qty.	Rate	Amount
101	Clearing & Grubbing	Sq.ft.	288,550	2.34	675,207
104	Compaction of Natural Ground	Sq.ft.	288,550	2.57	741,574
106a	Excavate Unsuitable Common Material	Cu.ft.	76,899	10.28	790,524
106(b ii)	Excavate Unsuitable Medium rock Material)	Cu.ft.	19,225	24.66	474,084
108c	Formation of Embankment from borrow Excavation in common material	Cu.ft.	413,617	12.66	5,236,391
109a	Sub grade preparation in earth cut	Sq.ft.	10,000	7.15	71,500
201	Granular Sub-base	Cu.ft.	81,889	48.34	3,958,514
202	Aggregate Base Course	Cu.ft.	31,330	61.23	1,918,336
305b	Asphaltic Wearing Course - Class B	Cu.ft.	7,950	577.31	4,589,615
206b	Water Bound Macadam Base with Coarse Aggregate Class B	Cu.ft.	58,509	58.52	3,423,947
302a	Cut Back Asphalt for Bituminous Prime Coat	Sq.ft.	46,760	11.39	532,596
304a	Single Surface Treatment including Bitumen prime coat	Sq.ft.	117,018	21.47	2,512,376
401b	Concrete Class "B" (For Edge Block )	Cu.ft.	62,659	320.61	20,089,102
<b>Total Bill No. 1 : ROAD WORKS</b>					<b>45,013,766</b>
<b>We Quote .....% above/below on schedule items</b>					
<b>Total Bill No. 1 : ROAD WORKS</b>					

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**BILL OF QUANTITIES**

**Bill No.2 : SEWERAGE**

Refrance	Item.	Item Description	Unit	Estimated	Rate	Amount
		<b>PART-A (Schedule Items )</b>				
	<b>1</b>	<b>EXCAVATION</b>				
Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012	<b>1.1</b>	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	87,122	4,650.00	405,117
	<b>1.1</b>	Excavation for pipe line in trenches, and pits in all kind of rock 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)  0'-0" to 5'-0"	%0Cft	21,780	10,770.00	234,571
	<b>1.1.1</b>	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	5,384	5,200.00	27,997
Item # 24, Pg # 77 , PHEW, Chp. II, Vol. IV, Part VI	<b>2</b>	<b>BACKFILLING</b>				
	<b>2.1</b>	Refilling the excavated stuff in trenches in 6" thick layer including watering, ramming to full compaction etc complete.  %0Cft	%0Cft	110,827	2,760.00	305,883
	<b>3</b>	<b>DEWATERING</b>				
Item #23 i, Pg # 76 , PHEW, Chp. II, Vol. IV, Part VI- CSR 2012	<b>3.1</b>	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 No.2 : SEWERAGE**

Refrance	Item.	Item Description	Unit	Estimated	Rate	Amount
Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012	<b>4</b>	<b>CONSTRUCTION OF MANHOLE</b>				
	<b>4.1</b>	<b>EXCAVATION</b>  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	14,845	4,650	69,029
Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012	<b>4.2</b>	Excavation for pipe line in trenches, and pits in all kind of rock 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)  0'-0" to 5'-0"	%0Cft	3,711	10,770.00	39,967
		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				
Item # A-16, Pg # 74 , PHEW, Chp. II, Vol. IV, Part VI-	<b>4.2.1</b>	5'-0" to 8'-0"	%0Cft	1,924	5,200	10,005
Item # 5 i, Pg # 16 , Gernal, Chp.	<b>4.3</b>	<b>CONCRETE WORKS</b>  Cement concrete plain including placing compacting, finishing and curing, complete including screening and washing of stone aggregate without shuttering. <b>(Ratio 1:4:8)</b>	%Cft	928	11,289	104,760
	<b>4.3.1</b>	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. <b>Ratio (1:2:4)</b> 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. <b>(Ratio 1:2:4)</b>				
Item # 6 a(I), Pg # 17, Gernal, Chp. 4, Vol. III, Part II- CSR 2012		Wall/Bed	Per Cu.ft	10,400	337	3,504,800

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**BILL OF QUANTITIES**

**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	<b>4.4</b>	<b>BITUMEN COATING</b> 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.	325	778	2,529.00
Item # 8 b, Pg # 17, Gernal, Chp. 4, Vol. III, Part II- CSR 2012	<b>4.5</b>	<b>STEEL REINFORCEMENT</b> 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).				
			Per Cwt.	37.00	5,002	185,063
Item # B 1, Pg # 56, PHEW. Chp.	<b>4.4.1</b>	b) Using Tor Bars				
			R.ft	1,815	463	840,345
Item #. 1, Pg # 31, PHEW, Chp. 17, Vol. III, Part V-B,	<b>4.5</b>	<b>WATER STOPPER</b> Providing " expansion joint" in concrete work of 9" wide corrugated PVC water Stoper ( with Bulb ) i/c Soldering cost of matrial and labour etc. complete.				
			Each	139	914	126,995
Item #. B 1a, b, Pg # 17, PHEW, Chp. 17, Vol. IV,	<b>4.6</b>	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	Rft	7,115	229	1,629,335
Item #. C 1, Pg # 56, PHEW, Chp. 17, Vol. IV, Part VI, 2012	<b>5</b>	<b>RCC PIPES</b>				
	<b>5.1</b>	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)	Rft	360	189	68,040
	<b>6</b>	<b>GRANULAR BEDDING</b>				
	<b>6.1</b>	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	12,155	3,410	414,486.00
<b>Sub Total of Part of "A"</b>						<b>8,013,922</b>
<b>We Quote .....% above/below on schedule items</b>						
<b>Bill No.2: SEWERAGE</b>						

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**Bill No.3 : WATER SUPPLY**

<i>Refrance</i>	<i>Item.</i>	<i>Item Description</i>	<i>Unit</i>	<i>Estimated</i>	<i>Rate</i>	<i>Amount</i>
		<b>PART-A (Schedule Items )</b>				
Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012	<b>1</b>	<b>EXCAVATION</b>				
	<b>1.1</b>	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	66,086	4,650	307,300
Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012	<b>1.2</b>	Excavation for pipe line in trenches, and pits in all kind of rock 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	16522	10,770	177,942
Item # 29, Pg # 26, Gernal, Chp. 5, Vol. III, Part II- CSR 2012	<b>2</b>	<b>SAND BEDDING</b> Supply/Stacking and filling sand of approved quality from out side sources in foundation trenches including dressing,watering & consolidation..	%Cft	10,840	1,141	123,712.00
	<b>3</b>	<b>BACKFILLING</b> 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	71,019	2,760	196,012
Item # E 2b,c & e Pg # 22, PHEW, Chp. 17, Vol. IV, Part VI, 2012	<b>4</b>	<b>PIPES (uPVC)</b> 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.				
	<b>4.1</b>	3" dia (Class C)	R ft.	4,674	107	500,118
	<b>4.2</b>	4" dia (Class C)	R ft.	2,931	174	509,994
	<b>4.3</b>	6" dia (Class C)	R ft.	861	373	321,153
	<b>4.4</b>	8" dia (Class C)	R ft.	75	574	43,050

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**Bill No.3 : WATER SUPPLY**

<i>Refrance</i>	<b>Item.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Estimated</b>	<b>Rate</b>	<b>Amount</b>
Item # 5 f, Pg # 16, Gernal, Chp. 4, Vol. III, Part II- CSR 2012	<b>5</b>	<b>THRUST BLOCKS</b> 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	564	14,429	81,381.00
Item # 5 f, Pg # 16, Gernal, Chp. 4, Vol. III, Part II- CSR	<b>6</b>	<b>PIPE SURROUND</b> 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	3,348	14,429	483,091.00
		<b>Sub-Total (Part-A)</b>				<b>2,743,753</b>

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**BILL OF QUANTITIES**

**Bill No.3 : WATER SUPPLY**

Refrance	Item.	Item Description	Unit	Estimated	Rate	Amount
		<b>PART-B (Non - Schedule Items )</b>				
	<b>1</b>	<b>FITTINGS (uPVC)</b> 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.				
	<b>1.1</b>	<b>TEE (EQUAL &amp; UNEQUAL)</b>				
	i)	4" X 4" X 4"	Nos	11		
	ii)	4" X 4" X 3"	Nos	27		
	iii)	3" x 3" x 3"	Nos	28		
	iv)	6" x 6" x 6"	Nos	1		
	v)	6" x 6" x 3"	Nos	6		
	<b>1.2</b>	<b>END PLUG (Provisional)</b>				
	i)	3" dia	Nos	25		
	ii)	4" dia	Nos	7		
	iii)	6" dia	Nos	5		
	iv)	8" dia	Nos	3		
	<b>1.3</b>	<b>REDUCERS</b>				
	i)	4"X 3"	Nos	3		
	ii)	6"X 4"	Nos	1		
	iii)	8"X 6"	Nos	1		
		<b>Sub Total of Part of "B"</b>				
		<b>Sub Total of Part of "A"</b>				<b>2,743,753</b>
		<b>We Quote .....% above/below on schedule items</b>				
		<b>Bill No.3: WATER SUPPLY (Total of Part of "A" and "B")</b>				

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