

**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

| BILL No. | DESCRIPTION | TOTAL (Rs.) |
|-----------------|------------------------------|--------------------|
| 1. | ROAD WORKS | |
| 2 | SEWERAGE | |
| 3 | WATER SUPPLY | |
| | TOTAL COST OF PROJECT | |

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|----------------------------|
| SEAL OF THE COMPANY |
| INITIAL |

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 |
| Total Bill No. 1 : ROAD WORKS | | | | | 45,013,766 |
| We Quote% above/below on schedule items | | | | | |
| Total Bill No. 1 : ROAD WORKS | | | | | |

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BILL OF QUANTITIES

Bill No.2 : SEWERAGE

| 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 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 |
| 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 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 |
| 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 | 5,384 | 5,200.00 | 27,997 |
| | 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 | 110,827 | 2,760.00 | 305,883 |
| | 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 No.2 : SEWERAGE

| Refrance | Item. | Item Description | Unit | Estimated | Rate | Amount |
|--|--------------|--|-----------|-----------|-----------|-----------|
| Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012 | 4 | CONSTRUCTION OF MANHOLE | | | | |
| | 4.1 | EXCAVATION 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 | 4.2 | 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 |
| 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 | | | | |
| | 4.2.1 | 5'-0" to 8'-0" | %0Cft | 1,924 | 5,200 | 10,005 |
| Item # 5 i, Pg # 16 , Gernal, Chp. | 4.3 | CONCRETE WORKS Cement concrete plain including placing compacting, finishing and curing, complete including screening and washing of stone aggregate without shuttering. (Ratio 1:4:8) | | | | |
| | 4.3.1 | 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) | | | | |
| 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 | 4.4 | 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. | 325 | 778 | 2,529.00 |
| Item # 8 b, Pg # 17, Gernal, Chp. 4, Vol. III, Part II- CSR 2012 | 4.5 | 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. | 37.00 | 5,002 | 185,063 |
| 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 Soldingr cost of matrial and labour etc. complete. | R.ft | 1,815 | 463 | 840,345 |
| 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 | 139 | 914 | 126,995 |
| 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 | 7,115 | 229 | 1,629,335 |
| | | ii) 6in dia RCC | Rft | 360 | 189 | 68,040 |
| Item #. C 1, Pg # 56, PHEW, Chp. 17, Vol. IV, Part VI, 2012 | 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 | 12,155 | 3,410 | 414,486.00 |
| Sub Total of Part of "A" | | | | | | 8,013,922 |
| We Quote% above/below on schedule items | | | | | | |
| Bill No.2: SEWERAGE | | | | | | |

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BILL OF QUANTITIES

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> |
|---|--------------|---|-------------|------------------|-------------|---------------|
| | | 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 | 66,086 | 4,650 | 307,300 |
| Item #.A, 5, Pg. 62, PHEW, Chp. II, Vol. IV, Part VI- 2012 | 1.2 | 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 |
| | 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 | 10,840 | 1,141 | 123,712.00 |
| | 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 | 71,019 | 2,760 | 196,012 |
| | 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. | 4,674 | 107 | 500,118 |
| | 4.2 | 4" dia (Class C) | R ft. | 2,931 | 174 | 509,994 |
| | 4.3 | 6" dia (Class C) | R ft. | 861 | 373 | 321,153 |
| | 4.4 | 8" dia (Class C) | R ft. | 75 | 574 | 43,050 |

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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 | 564 | 14,429 | 81,381.00 |
| 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 | 3,348 | 14,429 | 483,091.00 |
| | | Sub-Total (Part-A) | | | | 2,743,753 |

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BILL OF QUANTITIES

Bill No.3 : WATER SUPPLY

| Refrance | 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 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 | | | |
| | 1.2 | END PLUG (Provisional) | | | | | |
| | | i) 3" dia | Nos | 25 | | | |
| | | ii) 4" dia | Nos | 7 | | | |
| | | iii) 6" dia | Nos | 5 | | | |
| | | iv) 8" dia | Nos | 3 | | | |
| | 1.3 | REDUCERS | | | | | |
| | | i) 4"X 3" | Nos | 3 | | | |
| | | ii) 6"X 4" | Nos | 1 | | | |
| | | iii) 8"X 6" | Nos | 1 | | | |
| | | Sub Total of Part of "B" | | | | | |
| | | Sub Total of Part of "A" | | | | 2,743,753 | |
| | | We Quote% above/below on schedule items | | | | | |
| | | Bill No.3: WATER SUPPLY (Total of Part of "A" and "B") | | | | | |

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