

**DUALIZATION OF
CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)**

AND O&M OF FAISALABAD - CHINIOT - SARGODHA ROAD (LENGTH = 68.50 KM)

BILL OF QUANTITIES (BOQ) SUMMARY

Bill No	Description	Amount (Rs.)
1	Earthwork and Allied Activities	
2	Subbase and Base	
3	Surface Courses & Pavement	
4	Structures	
5	Drainage & Erosion Works	
6	Ancillary Works	
8	Electrical Works	
9	Toll Plazas 3 Nos.	
	Total Construction and Installation Cost	

**DUALIZATION OF
CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)
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BILL OF QUANTITIES (BOQ)

Bill No. 1 Earthwork and Allied Activities

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Ch. 3 Item 48	Jungle clearance and removing within 100 ft. (30 m). a) Ordinary	Each	164,800		
Ch. 3 Item 46	Uprooting stump and removing within 100 ft. (30 m) from 2 ft. to 6 ft. (600 to 1800 mm) girth.	Each	150		
Ch. 18 Item 24	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front end loader, vibratory roller and all lead and lifts, dressing, watering complete in all respect as approved and directed by the Engineer Incharge.	CM	96,280		
Ch. 3 Item 7(1)(B)(i)	Earthwork excavation in open cutting for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:-1) Upto 5' (1.5 meter) depth B) By Mechanical means (i) ordinary	CM	294,680		
Chap-3- 17(a,b,c)	Transportation of earth all types when the total distance, including the lead covered in the item of work upto 1 km	CM	43,630		
Ch. 3 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing, mixing and compaction by Mechanical Means at optimum moisture content and dressing to designed section, complete in all respects:- Roadway excavation)	CM	243,740		
Ch. 3 Item 5 (i) + Ch. 3 Item 17 (a,b,c)	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing, mixing and compaction by Mechanical Means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density. (material From Borrow excavation Including 5km Lead)	CM	1,132,196		
Ch. 3 Item 25 (i)	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture content in layers, etc. complete: i) 95% to 100% maximum modified AASHO dry density.	CM	129,060		
	Total of Bill No. 1				

Bill No. 2 Subbase and Base

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Ch. 18 Item 3 a (i), 1-1	Providing and laying subbase course of Crushed Stone Aggregate of approved quality and grade, including placing, mixing, spreading and compaction of subbase material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, (Including carriage of all material to site of work from Sikhanwali Quarry, Sargodha).	CM	66,850		
Ch. 18 Item 4a, 1-1	Providing and laying Water Bound Macadam Base of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing, spreading and compaction of base course (WBM) material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work from Sikhanwali Quarry, Sargodha).	CM	306,166		
Ch 4 Item 45	Dismantling and removing road metalling.	CM	43,258		

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Ch 4 Item 46 (b)	Dismantling and removing road pavement, etc., including screening and stacking of byproducts upto one chain lead (30 meter) b) By Mechanical Means	CM	141,067		
Ch 18 Item 3(aii) Labour Only	Re-use of salvaged Granular Material from existing road as subbase	CM	126,960		
Ch 1-1	Disposal of Existing Unusable Road Pavement Structure, Including Lead of 1 KM	CM	57,370		
Ch.18 Item 5	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects.	RM	99,090		
Total of Bill No. 2					

Bill No. 3 Surface Courses & Pavement

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Ch. 18 Item 6	Providing and laying bituminous priming coat , using 10 lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.	SM	1,015,935		
Ch. 18 Item 7	Providing and laying bituminous tack coat , using 5 lbs. of bitumen per 100 Sft (0.27 Kg of bitumen per sq.m.)	SM	1,035,291		
Ch. 18 Item 10(vi),1-1	Providing and laying plant premixed bituminous carpet, base course including compaction and finishing to required camber, grade and density. 3.5% Bitumen (Including carriage of crushed stone aggregate/bajri from from Sikhanwali Quarry, Sargodha) .	CM	176,610		
Ch. 18 Item 7	Providing and laying bituminous tack coat , using 5 lbs. of bitumen per 100 Sft (0.27 Kg of bitumen per sq.m.)	SM	1,022,717		
Ch. 18 Item 10(xi),1-1	Providing and laying plant premixed bituminous carpet, base course including compaction and finishing to required camber, grade and density. 4.0% Bitumen (Including carriage of crushed stone aggregate/bajri from Sikhanwali Quarry, Sargodha) .	CM	50,450		
Ch. 18 Item 8 a 1(i),2(i),3 + 1-1	Providing surface treatment to roads, including supply of bitumen and bajri /crushed stone aggregate of approved quality, including cleaning of road surface, heating,spraying bitumen, spreading bajri and rolling etc. complete including carriage of all materials to site of work except bajri/crushed stone aggregate for which supply within 3 miles (5.0 km) is included in the rate. from Sikhanwali Quarry Sargodha. (TST)	SM	195,360		
Total of Bill No. 3					

Bill No. 4 Structure

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
4.0a	Structure (New RCC Canal Bridges)	SM	572		
4.0b	Structure (New Prestressed Canal Bridges)	SM	1,820		
4.1a	Structure Flyover (Total of Bill No. 4.1a)	-	-	-	
4.1b	Structure RCC wall for ramps (Total of Bill No. 4.1b)	-	-	-	
4.2a	Structure Flyover (Total of Bill No. 4.2a)	-	-	-	
4.2b	Structure RCC wall for ramps (Total of Bill No. 4.2b)	-	-	-	
4.3	Structure (New Culverts)	SM	200		
4.4	Structure (Extension of Existing Culverts)	SM	9,991		

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BILL OF QUANTITIES (BOQ)

4.5	Structure (Pipe Culverts)	L.M	293		
4.6	Pedestrian Bridges	SM	960		
4.7	Geo Technical investigation of Bridges (P.S)	P.S	-	-	
	Total of Bill No. 4				

Bill No.4.1a Structures Flyover

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Chapter 3/ 21(1)(b)ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) 1) Depth upto 5ft (1.5m) b) By Excavator ii) Ordinary soil	CM	3,999		
Ch. 18 Item 24	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front end loader, vibratory roller and all lead and lifts,dressing,watering complete in all respect as approved and directed by the Engineer Incharge.	CM	2,731		
Ch. 6 Item 9c (vi) + Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Pile Cap, Raft, Strip and Footing Beams) (Approach Slab) Strength (vi) 3000 PSI	CM	27		
Chapter 6 Item 9c(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Pile Cap, Raft, Strip and Footing Beams) (Pile Cap) (iv) Strength 4000 PSI	CM	1,220		
Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Concrete Pad) (iv)Strength 4000 PSI	CM	6		

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Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Piers) (iv)Strength 4000 PSI	CM	498		
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Bill No.4.1a Structures Flyover

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Abutment Wall, Abutment Seat, Curtain Wall and Wing Wall) (iv)Strength 4000 PSI	CM	187		
Chapter 6 Item 9 a(iv)+ Ch.1-2	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Transom) (iv)Strength 4000 PSI	CM	216		
Chapter 6 / Item 56 b(i) + Ch.1-1	Providing and laying Kerb Block / RCC Barrier of Concrete having compressive strength of 4000 PSI of required size with Slip form Paver / power kerber machine, batching plant, excluding the cost of additive / super plasticizer, steel reinforcement and its labour for bending and laying in position as specified etc complete in all respect. b) R.C.C Barrier (i) Single Face	CM	226		
Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (RCC Box Girder) (iv)Strength 4000 PSI	CM	3,146		
Ch. 6 / 5(i) + Ch.1-1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8 (Lean Concrete)	CM	48		

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BILL OF QUANTITIES (BOQ)

Chapter 6 / 12(b)ii	Fabrication of mild steel Reinforcement for Cement Concrete (except Piles), including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (ii) (Grade-60)	Ton	1,733		
Chapter 6/11(ii)	Fabrication of mild steel reinforcement deformed bar cage of specified yield strength for R.C.C bored piles including cutting bending, lowering of cage with crane in position, welding and fastening, including the cost of binding wire, Crane machine (also includes removal of rust from the bars) as approved and directed by the Engineer Incharge ii) Grade-60	Ton	642		

Bill No.4.1a Structures Flyover

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Chapter 18/17	Providing and laying expansion joint of neoprene strip 4"x1/4" (100mm x 6mm) and plastic bitumen (N.J Barrier)	LM	33		
Chapter 18 Item 22 II(b)(i)	Providing and laying Elastomeric Neoprene Bearing Pads of specified grade, Specific gravity, hardness, elongation, min tensile strength of 2250psi, and compressive strength of 2000 psi conforming to ASTM D2240 standard test method for rubber as approved and directed by the Engineer Incharge. II. Grade 60 (b) Laminated (i) Without Anchorage	cubic centimeter	871,200		
Chap. 6 Item 8b(vi) +Ch.1-1	Providing and casting in situ bored reinforced concrete piles using Ordinary portland cement / Sulphate resisting cement or as may be required, including screening, washing of aggregates, mixing of constituents using batching plant, Transportation by Transit Mixer, Pouring in the required proportion to achieve a nominal cylindrical strength in the field as per ACI-214, with the specified consistency. i/c the cost of labour, boring, equipment / machinery, platform (except the cost of steel reinforcement, its labour for bending and laying in position and boat platform etc. which will be paid separately) excluding the cost of concrete pump and admixture, as approved and directed by the Engineer Incharge. In ordinary soil (b) 4000 PSI - (vi) 1.22m / 48"	LM	2,832		
Ch 6 Item 51	Extra for vertical pile load test (compression) by Kentledge method by applying incremental load and loading arrangements for test pile to ensure structural and Geotechnical soundness of pile upto a maximum test load i/c the hiring of machinery required for complete job and furnishing a report in this regard by a qualified/authorized Geo Technical Engineer by studying the data of at least seven days as approved and directed by the Engineer Incharge. Pile load test	Ton	1,350		
Ch 6 Item 51	Extra for vertical pile load test (compression) by Kentledge method by applying incremental load and loading arrangements for test pile to ensure structural and Geotechnical soundness of pile upto a maximum test load i/c the hiring of machinery required for complete job and furnishing a report in this regard by a qualified/authorized Geo Technical Engineer by studying the data of at least seven days as approved and directed by the Engineer Incharge. Proof load test	Ton	675		
Ch 9 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp hold fast and painting (Scupper)	Each	73		
Ch 18 Item 21-b (ii)	Providing and fixing metallic expansion Joints of 3/4" thick Aluminium Alloy strip of specified width duly bolted with check nuts @ 9" c/c with the MS lugs for specified movements as mentioned by the designer i/c the cost of polystyrene joint fill but excluding the cost of Lugs complete in all respect as approved and directed by the Engineer Incharge. (B) Saw-tooth Type (ii) 40 mm to 80 mm	LM	62		
Ch. 13 Item 9(i)	Bitumen Coating to plastered or cement concrete surface for Pile Cap & Pier upto FGL i) 20lbs per 100Sft (9.07Kg per Sq.m)	SM	1,197		
Ch 25 Item 16	Making bolts and nuts of iron rods	100Kg	30		
NS	Sonic Integrity Test (SIT) on all Piles	Each	66		
NS	Providing and Fixing 150mm Dia. PVC Pipes in piers	LM	169		
NS	Providing and fixing dia 100mm PVC pipes in NJ Barrier	LM	726		

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BILL OF QUANTITIES (BOQ)

NS	Providing and fixing dia 75mm dia U-PVC pipes for Cable Ducts	LM	726		
Total of Bill No. 4.1a					

Bill No.4.1b Structures (RCC Wall for Ramps)

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Chapter 3/ 21(1)(b)ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) 1) Depth upto 5ft (1.5m) b) By Excavator ii) Ordinary soil	CM	16,947		
Ch. 18 Item 24	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front end loader, vibratory roller and all lead and lifts,dressing,watering complete in all respect as approved and directed by the Engineer Incharge.	CM	13,532		
Chapter 6 Item 9c(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Pile Cap, Raft, Strip and Footing Beams) (Base Slab) (iv) Strength 4000 PSI	CM	1,370		
Ch. 6 Item 9 b(iv)ii+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge. (b) Retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast (Formwork on both sides) iv) 4000 PSI (ii) More Than 9" Thick(Stem of Retaining Wall)	CM	1,432		
Ch. Item 6/5(i)+ Ch.1-1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(i) Ratio 1: 4: 8 (Lean Concrete)	CM	268		
Chapter 6 / 12(b)ii	Fabrication of mild steel Reinforcement for Cement Concrete (except Piles) , including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (ii) (Grade-60)	Ton	380		
Ch. 18 Item 17	Providing and laying expansion joint of neoprime strip 4"x1/4" (100mm x 6mm) and plastic bitumen (Expansion Joint and Contraction Joint)	LM	1,071		
Ch. 6 Item 32(ii)	Providing and embedding 10" (250mm) wide PVC water stopper in expansion joints of RCC structures (Retaining walls, water tanks, Slabs) complete in all respect. ii) 10 mm thick	LM	1,071		
Chapter 6 / Item 56 b(i) + Ch.1-1	Providing and laying Kerb Block / RCC Barrier of Concrete having compressive strength of 4000 PSI of required size with Slip form Paver / power kerber machine, batching plant, excluding the cost of additive / super plasticizer, steel reinforcement and its labour for bending and laying in position as specified etc complete in all respect. b) R.C.C Barrier (i) Single Face	CM	273		
Ch. 13 Item 9(i)	Bitumen Coating to plastered or cement concrete surface i) 20lbs per 100Sft (9.07Kg per Sq.m)	SM	6,247		
Total of Bill No. 4.1b					

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BILL OF QUANTITIES (BOQ)

Bill No.4.2a Structures Flyover

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Chapter 3/ 21(1)(b)ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) 1) Depth upto 5ft (1.5m) b) By Excavator ii) Ordinary soil	CM	6,766		
Ch. 18 Item 24	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front end loader, vibratory roller and all lead and lifts,dressing,watering complete in all respect as approved and directed by the Engineer Incharge.	CM	4,568		
Ch. 6 Item 9c (vi) + Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Pile Cap, Raft, Strip and Footing Beams) (Approach Slab) Strength (vi) 3000 PSI	CM	56		
Chapter 6 Item 9c(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Pile Cap, Raft, Strip and Footing Beams) (Pile Cap) (iv) Strength 4000 PSI	CM	2,110		
Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Concrete Pad) (iv)Strength 4000 PSI	CM	12		
Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Piers) (iv)Strength 4000 PSI	CM	954		

Bill No.4.2a Structures Flyover

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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BILL OF QUANTITIES (BOQ)

Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Abutment Wall, Abutment Seat, Curtain Wall and Wing Wall) (iv)Strength 4000 PSI	CM	386		
Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Transom) (iv)Strength 4000 PSI	CM	366		
Chapter 6 / Item 56 b(i) + Ch.1-1	Providing and laying Kerb Block / RCC Barrier of Concrete having compressive strength of 4000 PSI of required size with Slip form Paver / power kerber machine, batching plant, excluding the cost of additive / super plasticizer, steel reinforcement and its labour for bending and laying in position as specified etc complete in all respect. b) R.C.C Barrier (i) Single Face	CM	452		
Chapter 6 Item 9 a(iv)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (RCC Box Girder) (iv)Strength 4000 PSI	CM	6,460		
Ch. 6 / 5(i) + Ch.1-1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8 (Lean Concrete)	CM	90		
Chapter 6 / 12(b)ii	Fabrication of mild steel Reinforcement for Cement Concrete (except Piles), including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (ii) (Grade-60)	Ton	3,448		
Chapter 6/11(ii)	Fabrication of mild steel reinforcement deformed bar cage of specified yield strength for R.C.C bored piles including cutting bending, lowering of cage with crane in position, welding and fastening, including the cost of binding wire, Crane machine (also includes removal of rust from the bars) as approved and directed by the Engineer Incharge ii) Grade-60	Ton	1,214		

Bill No.4.2a Structures Flyover

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Chapter 18/17	Providing and laying expansion joint of neoprene strip 4"x1/4" (100mm x 6mm) and plastic bitumen (N.J Barrier)	LM	66		

DUALIZATION OF CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)

AND O&M OF FAISALABAD - CHINIOT - SARGODHA ROAD (LENGTH = 68.50 KM)

BILL OF QUANTITIES (BOQ)

Chapter 18 Item 22 II(b)(i)	Providing and laying Elastomeric Neoprene Bearing Pads of specified grade, Specific gravity, hardness, elongation, min tensile strength of 2250psi , and compressive strength of 2000 psi conforming to ASTM D2240 standard test method for rubber as approved and directed by the Engineer Incharge. II. Grade 60 (b) Laminated (i) Without Anchorage	cubic centimeter	1,742,400		
Chap. 6 Item 8b(vi) +Ch.1-1	Providing and casting in situ bored reinforced concrete piles using Ordinary portland cement / Sulphate resisting cement or as may be required, including screening, washing of aggregates, mixing of constituents using batching plant, Transportation by Transit Mixer, Pouring in the required proportion to achieve a nominal cylindrical strength in the field as per ACI-214, with the specified consistency. i/c the cost of labour, boring, equipment / machinery, platform (except the cost of steel reinforcement, its labour for bending and laying in position and boat platform etc. which will be paid separately) excluding the cost of concrete pump and admixture, as approved and directed by the Engineer Incharge. In ordinary soil (b) 4000 PSI - (vi) 1.22m / 48"	LM	5,356		
Ch 6 Item 51	Extra for vertical pile load test (compression) by Kentledge method by applying incremental load and loading arrangements for test pile to ensure structural and Geotechnical soundness of pile upto a maximum test load i/c the hiring of machinery required for complete job and furnishing a report in this regard by a qualified/authorized Geo Technical Engineer by studying the data of at least seven days asapproved and directed by the Engineer Incharge. Pile load test	Ton	2,700		
Ch 6 Item 51	Extra for vertical pile load test (compression) by Kentledge method by applying incremental load and loading arrangements for test pile to ensure structural and Geotechnical soundness of pile upto a maximum test load i/c the hiring of machinery required for complete job and furnishing a report in this regard by a qualified/authorized Geo Technical Engineer by studying the data of at least seven days asapproved and directed by the Engineer Incharge. Proof load test	Ton	1,350		
Ch 9 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp hold fast and painting (Scupper)	Each	146		
Ch 18 Item 21-b (ii)	Providing and fixing metallic expansion Joints of 3/4" thick Aluminium Alloy strip of specified width duly bolted with check nuts @ 9" c/c with the MS lugs for specified movements as mentioned by the designer i/c the cost of polystyrene joint fill but excluding the cost of Lugs complete in all respect as approved and directed by the Engineer Incharge. (B) Saw-tooth Type (ii) 40 mm to 80 mm	LM	128		
Ch. 13 Item 9(i)	Bitumen Coating to plastered or cement concrete surface for Pile Cap & Pier upto FGLI) 20lbs per 100Sft (9.07Kg per Sq.m)	SM	2,476		
Ch 25 Item 16	Making bolts and nuts of iron rods	100Kg	60		
NS	Sonic Integrity Test (SIT) on all Piles	Each	124		
NS	Providing and Fixing 150mm Dia. PVC Pipes in piers	LM	374		
NS	Providing and fixing dia 100mm PVC pipes in NJ Barrier	LM	1,452		
NS	Providing and fixing dia 75mm dia U-PVC pipes for Cable Ducts	LM	1,452		
Total of Bill No. 4.2a					

Bill No.4.2b Structure RCC Wall for Ramp

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Chapter 3/ 21(1)(b)ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) 1) Depth upto 5ft (1.5m) b) By Excavator ii) Ordinary soil	CM	33,894		

DUALIZATION OF CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)

AND O&M OF FAISALABAD - CHINIOT - SARGODHA ROAD (LENGTH = 68.50 KM)

BILL OF QUANTITIES (BOQ)

Ch. 18 Item 24	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front end loader, vibratory roller and all lead and lifts, dressing, watering complete in all respect as approved and directed by the Engineer Incharge.	CM	27,064		
Chapter 6 Item 9c(iv)+ Ch. 1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Pile Cap, Raft, Strip and Footing Beams) (Base Slab) (iv) Strength 4000 PSI	CM	2,740		
Ch. 6 Item 9 b(iv)ii+ Ch. 1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge. (b) Retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast (Formwork on both sides) iv) 4000 PSI (ii) More Than 9" Thick (Stem of Retaining Wall)	CM	2,864		
Ch. Item 6/5(i)+ Ch. 1-1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8 (Lean Concrete)	CM	536		
Chapter 6 / 12(b)ii	Fabrication of mild steel Reinforcement for Cement Concrete (except Piles) , including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (ii) (Grade-60)	Ton	760		
Ch. 18 Item 17	Providing and laying expansion joint of neoprime strip 4"x1/4" (100mm x 6mm) and plastic bitumen (Expansion Joint and Contraction Joint)	LM	2,142		
Ch. 6 Item 32(ii)	Providing and embedding 10" (250mm) wide PVC water stopper in expansion joints of RCC structures (Retaining walls, water tanks, Slabs) complete in all respect. ii) 10 mm thick	LM	2,142		
Chapter 6 / Item 56 b(i) + Ch. 1-1	Providing and laying Kerb Block / RCC Barrier of Concrete having compressive strength of 4000 PSI of required size with Slip form Paver / power kerber machine, batching plant, excluding the cost of additive / super plasticizer, steel reinforcement and its labour for bending and laying in position as specified etc complete in all respect. b) R.C.C Barrier (i) Single Face	CM	546		
Ch. 13 Item 9(i)	Bitumen Coating to plastered or cement concrete surface i) 20lbs per 100Sft (9.07Kg per Sq.m)	SM	12,494		
Total of Bill No. 4.2b					

Bill No 5 Drainage & Erosion Works

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Chapter 3/ 21(1)(b)ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) 1) Depth upto 5ft (1.5m) b) By Excavator ii) Ordinary soil	CM	50,620.00		

DUALIZATION OF CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)

AND O&M OF FAISALABAD - CHINIOT - SARGODHA ROAD (LENGTH = 68.50 KM)

BILL OF QUANTITIES (BOQ)

Chapter 6 Item 9 a(v)+ Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (Wall + Top Slab) (vi) Strength 3000 PSI	CM	11,660.00		
Ch. 6 Item 9c (vi) + Ch.1-1	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Vibrator, but excluding the cost of Admixture and hydraulic pump, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Pile Cap, Raft, Strip and Footing Beams) (Base Slab) Strength (vi)3000 PSI	CM	5,420.00		
Ch. Item 6/5(i)+ Ch.1-1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):(i) Ratio 1: 4: 8 (Lean Concrete)	CM	2,270.00		
Chapter 6 / 12(b)ii	Fabrication of mild steel Reinforcement for Cement Concrete (except Piles), including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (ii) (Grade-60)	TON	2,060.00		
Ch. 18/17	Providing and laying expansion joint of neoprene strip 4"x1/4" (100 mm x 6 mm) and plastic bitumen.	LM	2,230.00		
Ch. 4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same.	CM	1,960.00		
Chap 4/19C	Dismantling cement concrete 1:2:4 plain.	CM	160.00		
Chap 4/13	Dismantling brick work in lime or cement mortar.	CM	4,140.00		
Ch.13 / 9 (i)	Bitumen coating to plastered or cement concrete surface:- i) 20 lbs. per 100 Sf t. (9.07 Kg per Sq.m)	SM	58,380.00		
Ch. 6 Item 32(ii)	Providing and embedding 10" (250mm) wide PVC water stopper in expansion joints of RCC structures (Retaining walls, water tanks, Slabs) complete in all respect. ii) 10 mm thick	R.M	2,230.00		
NS-2	Credit for Steel Reinforcement Recovered from Dismantled RCC Concrete	Ton	98.00		(Amount to be Deducted)
NS-3	Credit for Bricks/Stone Recovered from Dismantled Brick/Stone Masonry	CM	1,656.00		(Amount to be Deducted)
Total of Bill No. 5					

Bill No.6 Ancillary Works

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Ch. 6-5 (c) + Ch.1-1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (c) Ratio 1: 1½: 3 (for Utility Ducts)	CM	309		
Ch.13 Item 36(ii)	Painting Traffic Lane Marking of specified width (1.5mm thick), with Thermoplastic (TP) Paint including Glass Beads, complete in all respect, as approved and directed by Engineer incharge. (ii) 6" wide	M	319,720		

**DUALIZATION OF
CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)**

AND O&M OF FAISALABAD - CHINIOT - SARGODHA ROAD (LENGTH = 68.50 KM)

BILL OF QUANTITIES (BOQ)

Ch.6 Item 54b(i) Ch.1-1	Providing and laying Kerb Block / RCC Barrier of Concrete having compressive strength of 4000 PSI ratio (1:1.25:2.25) of required size, over Lean Concrete of (1:4:8), with Slip form Paver / power kerber machine, batching plant, excluding the cost of additive / superplasticizer, steel reinforcement and its labour for bending and laying in position as specified etc complete in all respect. b) R.C.C Barrier (i) Single Face	CM	6,210		
Ch.6 Item 54b(ii) Ch.1-1	Providing and laying Kerb Block / RCC Barrier of Concrete having compressive strength of 4000 PSI ratio (1:1.25:2.25) of required size, over Lean Concrete of (1:4:8), with Slip form Paver / power kerber machine, batching plant, excluding the cost of additive / superplasticizer, steel reinforcement and its labour for bending and laying in position as specified etc complete in all respect. b) R.C.C Barrier (ii) Double Face	CM	11,540		
Ch. 6 / 5(i) + Ch.1-1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8 (Lean Concrete)	CM	4,405		
Chapter 6 / 12(b)ii	Fabrication of mild steel Reinforcement for Cement Concrete (except Piles), including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (ii) (Grade-60) Single & Double face RCC Barrier	TON	434		
Ch.18 Item 25 A- i (a)	Providing, fabrication and fixing pole mounted Direction Board / road delineator of any shape and size, with specified Sheet and thickness, supported with G.I Channel, (excluding the cost of vertical post and painting) etc complete in all respect. (A) G.I Sheet 14 SWG (i)CIRCULAR/TRIANGULAR (a)3-4 ft size	Sq.M	205		
Ch.18 Item 27(b)	Providing, fabrication and fixing Vertical Post comprising of medium quality G.I Pipe of specified diameter, including the cost of clamping arrangements, top cover, hold fasts, PCC 1:2:4 footing of specified depth and excavation etc complete in all respect, as approved and directed by the engineer incharge. (b) 3 inch diameter (footing 1.5'x1.5'x3')	M	1,090		
Ch.13 Item 42	Lettering and printing of signage / direction boards / road delineators of any colour by machine i/c cost of Digital Lettering, Lamination & pasting etc complete in all respect. a) High Intensity Prismatic (HIP) Tape	S.M	500		
Ch.6 Item 53a(i)	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect . a) Without Painting(i) 14" high	RM	23,560		
Ch.18 Item 28a(2)(i)	Providing & fixing Cat Eyes of size 4" x 4" x 3/4" duly casted with specified material having plastic strip containing mini retro -reflective glass beads of color white/red/yellow having specified reflections, quality & shape i/c the cost of self built in 12 mm diax120 mm long steel zinc plated nail, fixing to road with epoxy/ hammering with separate nail complete. a) Acrylic material (B) Uni-Directional (i) 31 Glass beads a side	Each	33,730		

Bill No.6 Ancillary Works

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
NS-4	PVC Pipe 6" Dia.	M	4,200		

DUALIZATION OF CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)

AND O&M OF FAISALABAD - CHINIOT - SARGODHA ROAD (LENGTH = 68.50 KM)

BILL OF QUANTITIES (BOQ)

Ch.18 Item 39(a)	Providing and fixing Full width Gantry comprising of 3 mm thick GI sheet (Z-275) fixed over double front and back truss made with Top & bottom chords of MS angle iron L-100x100x10 mm, webs and struts of L65x65x8 mm welded with top and bottom truss of webs and struts of 65x65x8 mm duly supported on specified vertical posts of double columns of MS pipe of size 7500x219x8 mm thick duly welded with Base plate of 600x400x50 mm with MS stiffeners of 350x150x15 mm thick MS sheet for each column fixed in prelaid RCC footing i/c the cost of polyurethane Paint to MS skeleton but excluding the cost of lettering/printing as approved and directed by the Engineer Incharge. a) Two Supports ii. Two Lane	SM	194		
Ch.18 Item 38(i)	Providing and fixing Cantilever Gantry of specified portal made of 3 mm thick GI sheet (Z-275) of size 4000x2400x3mm supported with a frame of MS angle iron frame of size 40x40 x 5mm all around the sheet with 3 no vertical and one no horizontal braces of MS tees of size 40x40x5 mm duly supported on a truss of 2 no chords of MS pipes 273x7 mmx9.27 mtr and 3 no struts of MS pipe of size 143x4.5mm x 3.098 mtr duly bolted with a post of MS pipe of size 7500x457.5x 12.7 mm thick duly welded with Base plate of 850x850x36 mm with MS stiffeners of 18 mm thick MS sheet and fixed with anchor bolts in prelaid RCC footing i/c the cost of polyurethane Paint to MS skeleton but excluding the cost of lettering/printing as approved and directed by the Engineer Incharge. i) Single Leaf	SM	77		
NS-7	Fence on Center Median	RM	10,000		
Total of Bill No. 6					

Bill No.7 General Items

- A fully equipped testing lab - Site establishment (contractor's own site office, tolling staff residences, camps, stores, workshops etc) - Full EMP implementation (as per PPP Contract/EPA Obligations) - Comprehensive H&S program (as per PPP Contract) - Temporary diversions, traffic control (During Construction Phase) - Construction-phase signage/barricading, and commuter's safety measures, awareness campaigns etc.	Not to be Quoted All these items are non-payable. And should be adjusted either in quoted rates in BOQ (distributed across Bills 1-9) And / Or Absorbed into contractor's (In-built) overheads.
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Bill No. 8 Electrical Works (Road Lighting Network based on LED Road Lighting Fixtures)

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	Design, supply, transportation, storage, installation, testing and commissioning of the following items of work, including all material, labour, tools and accessories etc. required for proper completion of each item as per specification, drawings and/or as directed by the Engineer.				
69(b-iii)/24, 85(a-i)/24	12m high double arm octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel, tapered from 225 mm at bottom to 100 mm at top, with 1500 mmx60 mm x4mm thick dia. arm for luminaire installation, duly G.I. welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet, with built in junction box with shutter & two (02) nos. 2A SP MCB 10kA breaker, i/c the cost of nuts & J-rag bolts, duly fixed in prelaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.	Each	33		
12 b(ii)/6, 8(a-ii)/6, 12/9, 3/10	Road Lighting Pole Foundation	Each	33		
	Road Lights				

DUALIZATION OF CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)

AND O&M OF FAISALABAD - CHINIOT - SARGODHA ROAD (LENGTH = 68.50 KM)

BILL OF QUANTITIES (BOQ)

70(c-vi)/24	Supplying, installation and commissioning of LED Luminaries (street lights) of of 120W and 120 lm/W to IP 66 & IK 08 or above, Philips/Osram/Thorn or approved equivalent manufacturer with corrosion resistant die casted Aluminum housing, silicon gasket in special groove, f1 rated polycarbonate optic complete with LED Chip (Philips Lumiled/Cree/Nichia/Osram make or equivalent approved manufacturer), programmable LED driver (Harvard/TCI/Lumotech/Philips/VOSSLOH Schwabe/Lightech make or approved equivalent manufacturer), minimum 10kV surge protection rating device i/c the cost of all accessories/components required for proper operation, fully flexible for future upgradation and easy replacements for maintenance purposes, i/c bucket elevator charges as approved and directed by the Engineer Incharge.	No.	66		
	Conduits / Pipes				
14(b-c)/23, 6/3	PVC pipe/conduit Class-D 100 mm dia with accessories suitable for laying multi-core cables in trenches/directly buried on road crossings including excavation.	Rm	100		
14(a-b)/23	PVC pipe/conduit Class-B 100 mm dia with accessories suitable for laying multi-core cables from pole to pole in barrier/structure.	Rm	50		
14(a-b)/23, 6/3	PVC pipe/conduit Class-B 100 mm dia with accessories suitable for laying multi-core cables from pole to pole in trenches/directly buried including excavation.	Rm	1,100		
	Low Voltage Power Cables				
11(c-viii)/24	PVC insulated, PVC sheathed 4 core 25 mm ² , 600/1000 volt non armoured copper conductor cable for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only)	Rm	100		
8(c-viii)/24	Single core 25mm ² PVC insulated copper conductor 450/750 volts cable, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only)	Rm	20		
11(c-vii)/24	PVC insulated, PVC sheathed 4 core 16 mm ² , 600/1000 volt non armoured copper conductor cable for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only)	Rm	1,300		
8(c-vii)/24	Single core 16mm ² PVC insulated copper conductor 450/750 volts cable, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only)	Rm	1,400		
8(c-iii)/24	3 Nos. 1 core 2.5 mm ² Cu/PVC 450/750 Voltage grade cable (stranded conductor) (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) from junction box to the fitting through the hollow of pole.				
i	For 12m Pole	No.	66		

Bill No. 8 Electrical Works (Road Lighting Network based on LED Road Lighting Fixtures)

Ch./Item No. MRS 2 nd Bi- Annual 2026	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	Lighting Control Panel				
87(a-i)/24, 94(xv-b)/24, 94(i)/24, 94(iv)/24, 94(iii)/24, 94(x)/24, 94(vi)/24	Road lighting control panel with angle iron frame claddd 14 SWG, sheet steel enclosure having high quality powder coated paint, color RAL 7032. The LCP shall be complete with incoming and outgoing MCCBs, Cu bus bars, magnetic contactors, photo-electric switches, meters, indication lights, construction with IP 54 protection class, door, locking arrangement etc. and all other accessories as required for quality work. MATERIAL 1 No. incoming 63 Amp.(adj.) TP, MCCB, 25 kA 4 No. outgoing 25 Amp. (adj.) TP MCCBs, 25 kA 2 No. outgoing 25 Amp. (adj.) TP MCCBs, 25 kA (Spare) 4 No. 32 Amp. magnetic contactor AC-3 2 No. 32 Amp. magnetic contactor (Spare) 3 No. photo-electric switches with timers and relays a) 1 No. ammeters 0-100 Amp, with selector switch (04 position) and CT of 100/5 Amp b) 3 No. indication lights c) 1 No. voltmeter with fuse and 7 position selector switch. d) 3 Ph. N & Earth copper bus bars Internal wiring & line-up terminals etc. Brass cable glands/accessories e) 06 Nos. Auto-Manual-OFF (3 position switches for operation in auto (with photocell) and normal (manual mode-photocell override) f) 06 Nos.ON & 06 Nos. OFF push button switch's with indication lights g) Panel Light with limit Switch	Job	1		
	Earthing				

**DUALIZATION OF
CHINIOT - SARGODHA ROAD (LENGTH = 47.50 KM)**

AND O&M OF FAISALABAD - CHINIOT - SARGODHA ROAD (LENGTH = 68.50 KM)

BILL OF QUANTITIES (BOQ)

118/24	Rod type Earth point comprising of 5/8" dia. (16 mm dia) 10 ft long copper coated M.S. rod driven in ground duly fixed with clamp with Tinned earth test link copper plate (300x50x10mm), i/c the cost of brass nuts, spacers, bolts washers lugs etc. complete in all respect including earth pit and RCC cover.	Each	2		
	<u>Transformer</u>				
108(a-iii)/24, 76(b-ii)/24	Oil cooled type, Step down Power Transformer of 25 kVA rating, 11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 4% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges, complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge with three phase energy meter.	Job	1		
	Total of Bill No 8 (one Km)				
	Total of Bill No 8 (Nine Km)				

Bill No.9 Toll Plazas (3-Nos)

Ch./Item No. MRS 2 nd Bi- Annual 2026	Item Description	Unit	Total Quantity	Rate (Rs)	Amount (Rs)
	a) Toll Plaza civil works -- canopy, lanes, booths etc (3-Toll Plazas i.e 18 No. of Bays) b) Toll back-office building (50 Sq M each)-(3-Nos) c) Rigid and Flexible Pavement, including Retaining Wall (3-Toll Plazas i.e 18 No. of Bays) d) ETTM and ITS System complete etc (3- Nos) e) SWIM i/c all allied Works (6-Nos) f) Central Control Building for Toll Plazas (150 Sq. M Area)-(1-No.) g) Electricity/Communication connections, back-up system as per PPP Contract requirement.	Job	-	-	
	Total of Bill No. 9				

Note:

Toll plaza Installation works are expressed (minimum requirements) in Schedule V & Q. Contractor shall visit the respective sites and prepare adequate shop drawings of all activities involved in the execution of the toll plaza along with appropriate Bill of Quantities and rates, complete in all respect as stated above and submit to the Independent Engineer (I.E) for approval. No activity will be commenced prior to the approval of the I.E.