

**SINDH COAL AUTHORITY**

**Various New Roads Links , Bypasses and Improvement /Widening /Rehabilitation of  
Existing Roads in Districts Tharparkar and Mirpurkhas**

**Contract Package C : Reconstruction of Islamkot - Nagarparkar road upto Thar Coal  
Block -I (10.0kms),ADP SCHEME 2235/2016-17**

**BILL OF QUANTITIES**

<b>BILL No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT (PKR)</b>
1	Earthworks	
2	Sub base and Base Courses	
3	Surface Courses	
4	Culverts	
5	Drainage And Protection Works	
6	Ancillary Works	
7	Engineer's Facilities	
<b>A</b>	<b>Sub Total of Bills</b>	
<b>B</b>	<b>Day work</b>	
<b>C</b>	<b>Bid Price (A+b) Carried Forward to form of Bid</b>	

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**BILL OF QUANTITIES**

<b>Bill 1 - EARTHWORKS</b>						
<b>Sr No.</b>	<b>Spec Ref</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
1.1	101	Clearing and Grubbing	SM	84,735		
1.2	104	Compaction of Natural Ground	SM	84,420		
1.3	106a & 106 (c)	Excavate unsuitable/ surplus Common Material	CM	231,000		
1.4	108a	Formation of Embankment From Road Way Excavation in Common Material	CM	26,250		
1.5	108c	Formation of Embankment From Borrow Excavation in Common Material	CM	85,857		
1.6	109a	Subgrade preparation in Earth Cut	SM	120,750		
<b>TOTAL FOR BILL 1 CARRIED FORWARD TO SUMMARY :</b>						

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**BILL OF QUANTITIES**

<b>Bill 2 - SUBBASE AND BASE COURSES</b>						
<b>Sr No.</b>	<b>Spec Ref</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
2.1	201	Granular Subbase	CM	22,189		
2.2	202	Aggregate Base (Grading A)	CM	38,304		
2.3	203b	Asphalt Base Course Plant Mix (Class "B")	CM	6,295		
2.4	209a	Breaking of Existing Road Pavement	CM	3,663		
2.5	209b	Scarification of Existing Road pavement	SM	56,650		
2.6	SS-3	Removal and reuse of existing water bound macadam and bringing it to the require specification	CM	3,663		
<b>TOTAL FOR BILL 2 CARRIED FORWARD TO SUMMARY :</b>						

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**BILL OF QUANTITIES**

<b>Bill 3 - SURFACE COURSES</b>						
<b>Sr No.</b>	<b>Spec Ref</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
3.1	302	Bituminous Prime Coat (MC-70)	SM	79,516		
3.2	303	Bituminous Tack Coat (Emulsified Asphalt)	SM	77,868		
3.3	304c	Triple Surface Treatment	SM	44,000		
3.4	305b	Asphalt Concrete for Wearing Course Class-B	CM	3,868		
<b>TOTAL FOR BILL 3 CARRIED FORWARD TO SUMMARY :</b>						

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**BILL OF QUANTITIES**

<b>Bill 4 - CULVERTS</b>						
<b>Sr. No.</b>	<b>Spec Ref</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
4.1	107a	Structural excavation in common material	CM	164		
4.2	401f	Lean Concrete	CM	118		
4.3	401a	Concrete Class A2 in culvert, apron, wing wall etc	CM	159		
4.4	404b	Reinforcement steel as per AASHTO M31 grade 60	TON	16		
4.5	107b	Granular back filling	CM	961		
4.6	410	Brick masonry	CM	1,530		
4.7	412a	Stone masonry dressed coursed with mortar	CM	44		
4.8	509d	Grouted Rip rap Class A	CM	269		
4.9	SP-2	Plaster work	SM	1,016		
4.10	510	Dismantling of structure and obstructions	CM	269		
4.11	509b	Rip Rap Class B	CM	441		
<b>TOTAL FOR BILL 4 CARRIED FORWARD TO SUMMARY :</b>						

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**BILL OF QUANTITIES**

<b>Bill 5 - DRAINAGE AND PROTECTION WORKS</b>						
<b>Sr No.</b>	<b>Spec Ref</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
5.1	511b	Grouted stone Pitching (20cm thick)	SM	612		
5.2	509h	Filter Layer of Granular Material	CM	92		
5.3	509d	Grouted Rip Rap Class "A"	CM	3,060		
5.4	401b	Concrete Class "B"	CM	2,754		
<b>Utility Crossing Ducts and Inspection Chambers</b>						
5.6	107a	Structural Excavation in Common Material	CM	80		
5.7	107e	Common backfilling	CM	42		
5.8	401a	Concrete Class A3 i) Underground	CM	11		
5.9	401g	Precase Concrete Class "A3"	CM	1		
5.10	404b	Reinforcement as per AASHTO M 31 grade 60	Ton	2		
5.11	404h	Reinforcement ( Structural Shapes) as per ASTM-A36	Ton	0.20		
5.12	501a	Reinforced Concrete Pipe AASHTO M 170 Class II dia 310mm	M	32		
5.13	401b	Concrete Class "B"	CM	9		
5.14	401f	Lean Concrete	CM	2		
<b>TOTAL FOR BILL 5 CARRIED FORWARD TO SUMMARY :</b>						

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**BILL OF QUANTITIES**

<b>Bill 6 - ANCILLARY WORKS</b>						
<b>Sr No.</b>	<b>Spec Ref</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
6.1	605a	Concrete Beam Guard Rail	M	2,300		
6.2	605c	Concrete Post for Guard Rail and Guard Rail End Pieces	Each	487		
6.3	607a	Traffic Road Signs Category 1, size 900mm	Each	21		
6.4	607b	Traffic Road Signs Category 2, size 900mm	Each	26		
6.5	607c	Traffic Road Signs Category 3 (a)	Each	31		
6.6	607d	Traffic Road Signs Category 3 (b)	Each	10		
6.7	607e	Traffic Road Signs Category 3 (c)	SM	6		
6.8	608h	Pavement marking in reflective TP paint for Line of 15 cm width	M	5,714		
6.9	608i	Pavement marking in reflective TP paint for Line of 20 cm width	M	20,000		
6.1	609d	Reflectorized pavement Studs (raised profile type double)	Each	1,536		
6.11	610c	Kilometer Post	Each	10		
6.12	612a	* Furnishing and Planting of trees including maintenance period of 1.5 - 2 years	Each	2,002		
<b>TOTAL FOR BILL 6 CARRIED FORWARD TO SUMMARY :</b>						

\* All the sapling shall be either of i) Neem ii) Gul muhr iii) Tali iv) Sirus or as directed by the Engineer . The trees / sapling shall be of minimum 1.5m height at the time of planting and maintain for 1.5 - 2 years

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<b>Bill 7 - Engineer's Facilities</b>						
<b>Sr No.</b>	<b>Spec Ref</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (PKR)</b>	<b>AMOUNT (PKR)</b>
7.1	SS-9.2.1(a)	Provide Resident engineer's Office (Rental)				
7.2	SS-9.2.1(b)	Provide equipment and furniture for Resident Engineer's Office				
7.3	SS-£.2.1(c)	Maintain Resident Engineer's Office				
7.4	SS-9.2.2(a)	Provide Residential Engineer;s Housing (Rental)				
7.5	SS-9.2.2(b)	Provide equipment and furnutre for Resident Engineer's Housing				
7.6	SS-9.2.2(c)	Maintain Resident Engineer's Housing				
7.7	SS-9.2.3(a)	Provide Engineer's Base Laboratory (Rental)				
7.8	SS-9.2.3(b)	Provide Equipment and furniture For Engineer's				
7.9	SS-9.2.3(c)	Maintain Engineer's Base Laboratory				
7.10	SS-9.2.4(a)	Provide Engineer's Vehicle 1.Toyota Corolla (XLI) CNG or equivalent, NO 4				
7.11	SS-9.2.4(b)	Maintenace of Engineer's Vehicle 1.Toyota Corolla (XLI) CNG or equivalent, NO 4				
7.12	SS-9.3.1(a)	Provide, equip and furnish Field accomodation			Not Payable	
7.13	SS-9.3.1(b)	Maintain Field Accommodation			Not Payable	
7.14	SS-9.3.2(a)	Provide equip and furnish Engineer's Field Laboratory			Not payable	
7.15	SS-9.3.2(b)	Maintain Engineer's Field Laboratory			Not Payable	
7.16	SS-9.3.3(a)	Provide Vehicle For Engineer's field Staff			Not Payable	
7.17	SS-9.3.3(b)	Maintain Vehicle for Engineer's field Staff			Not Payable	
7.18	SS-9.3.4(a)	Provide Survey Equipment			Not Payable	
7.19	SS-9.3.4(b)	Maintain Survey Equipment			Not Payable	
<b>TOTAL FOR BILL 7</b>						