

SINDH COAL AUTHORITY

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

**CONTRACT PACKAGE A : Construction of road Naukot , Jhuddo & Tando Jan Muhammad Bypasses
(20.0kms), ADP SCHEME 2234/2016-17**

Construction of Tando Jan Muhammad Bypass (5 kms)

BILL OF QUANTITIES

SUMMARY

BILL No.	DESCRIPTION	AMOUNT (PKR)
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	
A	Sub Total of Bills	
B	Day Work	
C	Bid Price (A+B) Carried Forward to Form of Bid	

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Bill 1 - EARTHWORKS						
Sr No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
1.1	101	Clearing and Grubbing	SM	800		
1.2	102	Removal of trees over 301 mm girth	Each	50		
1.3	104	Compaction of Natural Ground	SM	110,000		
1.4	106a & 106 (c)	Excavate unsuitable/ surplus Common Material	CM	11,000		
1.5	108c	Formation of Embankment From Borrow Excavation in Common Material		107,531		
1.6	109a	Subgrade preparation in Earth Cut		27,500		
TOTAL FOR BILL 1 CARRIED FORWARD TO SUMMARY :						

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Bill 2 - SUBBASE AND BASE COURSES						
Sr No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
2.1	201	Granular Subbase (Grading A)	CM	800		
				50		
2.2	202	Aggregate Base (Grading A)	CM	14,774		
	203b	Asphalt Base Course Plant Mix (Class "B")	CM	3,472		
2.4	209a	Breaking of Existing Road Pavement	CM	1,533		
2.5	209b	Scarification of Existing Road pavement	SM	27,500		
2.6	SS-3	Removal and reuse of existing water bound macadam and bringing it to the require specification	CM	1,533		
TOTAL FOR BILL 2 CARRIED FORWARD TO SUMMARY :						

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Bill 3 - SURFACE COURSES						
Sr No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
3.1	302	Bituminous Prime Coat (MC-70)	SM	800.00 39,037 50		
3.2	303	Bituminous Tack Coat (Emulsified Asphalt)	SM	38,110		
3.3	304b	Double Surface Treatment	SM	16,500		
3.4	3.5b	Asphalt concrete Wearing course Class B	CM	1,893		
TOTAL FOR BILL 3 CARRIED FORWARD TO SUMMARY :						

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Bill 4 - CULVERTS						
Sr. No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
4.1	107a	Structural excavation in common material	CM	800		
4.2	401f	Lean Concrete	CM	50		
4.3	401a	Concrete Class A3 in culvert, apron, wing wall etc	CM	255		
4.4	404b	Reinforcement Steel as per AASHTO M31 grade	CM	26		
4.5	107b	Granular back filling	CM	2002		
4.6	410	Brick Masonry	CM	3188		
4.7	412a	Stone masonry dressed coursed with mortar	CM	92		
4.8	509d	Grouted Rip Rap Class A	CM	561		
4.9	SP-2	Plaster work	SM	2,117		
4.1	510	Dismantling of structure and obstructions	CM	561		
4.11	509b	Rip Rap Class B	CM	918		
TOTAL FOR BILL 4 CARRIED FORWARD TO SUMMARY :						

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BILL OF QUANTITIES

Bill 5 - DRAINAGE AND PROTECTION WORKS						
Sr No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
5.1	511b	Grouted stone Pitching (20cm thick)	SM	800		
5.2	509h	Filter Layer of Granular Material	CM	50		
5.3	509d	Grouted Rip Rap Class "A"	CM	2,500		
5.4	401b	Concrete Class "B"	CM	2,000		
5.5	401f	Lean Concrete	CM			
Utility Crossing Ducts and inspection chambers						
5.6	107a	Structural excavation in common material	CM	80		
5.70	107e	Common Backfilling	CM	42		
5.8	401a	Concrete Class A3 i) Underground	CM	11		
5.9	401g	Precast 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		
TOTAL FOR BILL 5 CARRIED FORWARD TO SUMMARY :						

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Bypasses (20.0kms)

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BILL OF QUANTITIES

Bill 6 - ANCILLARY WORKS						
Sr No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
6.1	605a	Concrete Beam Guard Rail	M	690		
6.2	605c	Concrete Post for Guard Rail and Guard Rail	Each	173		
6.3	607a	Traffic Road Signs Category 1, size 900mm	Each	15		
6.4	607b	Traffic Road Signs Category 2, size 900mm	Each	20		
6.5	607c	Traffic Road Signs Category 3 (a)	Each	25		
6.6	607d	Traffic Road Signs Category 3 (b)	Each	7		
6.7	607e	Traffic Road Signs Category 3 (c)	Each	12		
6.8	608h	Pavement marking in reflective TP paint for Line of 15 cm width	M	3,250		
6.9	608i	Pavement marking in reflective TP paint for Line of 20 cm width	M	13,000		
6.10	609d	Reflectorized pavement Studs (raised profile type double)	Each	1625		
6.11	610c	Kilometer Post	Each	7		
6.12	612a	* Furnishing and Planting of trees including maintenance period of 1.5 - 2 years	Each	1,002		
TOTAL FOR BILL 6 CARRIED FORWARD TO SUMMARY :						

* 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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Bill 7 - Engineer's Facilities						
Sr No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
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		
TOTAL FOR BILL 7						