

SINDH COAL AUTHORITY

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

Contract Package IA. Construction of road from Mithi Intersection to Naukot (up to ADB Project End Point) (42.0kms) , ADP SCHEME NO: 2233/2016-17

BILL OF QUANTITIES

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	24,135,000
A	Total	
B	Day work	
C	Bid Price (A+b) Carried Forward to form of Bid	

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BILL OF QUANTITIES

Bill 1 - EARTHWORKS						
Sr No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
1.1	101	Clearing and Grubbing	SM	355,887		
1.2	104	Compaction of Natural Ground	SM	354,564		
1.3	106a & 106 (c)	Excavate unsuitable/ surplus Common Material	CM	880,607		
1.4	108a	Formation of Embankment From Road Way Excavation in Common Material	CM	117,312		
1.5	108c	Formation of Embankment From Borrow Excavation in Common Material	CM	360,600		
1.6	109a	Subgrade preparation in Earth Cut	SM	507,150		
TOTAL FOR BILL 1 CARRIED FORWARD TO SUMMARY :						

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BILL OF QUANTITIES

Bill 2 - SUBBASE AND BASE COURSES						
Sr No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
2.1	201	Granular Subbase	CM	93,193		
2.2	202	Aggregate Base (Grading A)	CM	160,877		
2.3	203b	Asphalt Base Course Plant Mix (Class "B")	CM	26,494		
2.4	209a	Breaking of Existing Road Pavement	CM	15,384		
2.5	209b	Scarification of Existing Road pavement	SM	254,100		
2.6	SS-3	Removal and reuse of existing water bound macadam and bringing it to the require specification	CM	15,384		
TOTAL FOR BILL 2 CARRIED FORWARD TO SUMMARY :						

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BILL OF QUANTITIES

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	334,636		
3.2	303	Bituminous Tack Coat (Emulsified Asphalt)	SM	327,715		
3.3	304c	Triple Surface Treatment	SM	184,800		
3.4	305b	Asphalt Concrete for Wearing Course Class-B	CM	16,277		
TOTAL FOR BILL 3 CARRIED FORWARD TO SUMMARY :						

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BILL OF QUANTITIES

Bill 4 - CULVERTS						
Sr. No.	Spec Ref	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (PKR)	AMOUNT (PKR)
4.1	107a	Structural excavation in common material	CM	342		
4.2	401f	Lean Concrete	CM	245		
4.3	401a	Concrete Class A2 in culvert, apron, wing wall etc	CM	332		
4.4	404b	Reinforcement steel as per AASHTO M31 grade 60	TON	33		
4.5	107b	Granular back filling	CM	2002		
4.6	410	Brick masonry	CM	3,188		
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		
4.10	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	2,570		
5.2	509h	Filter Layer of Granular Material	CM	386		
5.3	509d	Grouted Rip Rap Class "A"	CM	12,852		
5.4	401b	Concrete Class "B"	CM	11,567		
Utility Crossing Ducts and Inspection Chambers						
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		
TOTAL FOR BILL 5 CARRIED FORWARD TO SUMMARY :						

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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	6,041		
6.2	605c	Concrete Post for Guard Rail and Guard Rail End Pieces	Each	1,425		
6.3	607a	Traffic Road Signs Category 1, size 900mm	Each	90		
6.4	607b	Traffic Road Signs Category 2, size 900mm	Each	110		
6.5	607c	Traffic Road Signs Category 3 (a)	Each	130		
6.6	607d	Traffic Road Signs Category 3 (b)	Each	40		
6.7	607e	Traffic Road Signs Category 3 (c)	SM	24		
6.8	608h	Pavement marking in reflective TP paint for Line of 15 cm width	M	24,000		
6.9	608i	Pavement marking in reflective TP paint for Line of 20 cm width	M	84000		
6.10	609d	Reflectorized pavement Studs (raised profile type double)	Each	6450		
6.11	610c	Kilometer Post	Each	43		
6.12	612a	* Furnishing and Planting of trees including maintenance period of 1.5 - 2 years	Each	8,402		
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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CONTRACT PACKAGE I:

Contract Package I A: Construction of road from Mithi Intersection to Naukot (up to ADB Project End Point) (42.0kms) , ADP SCHEME 2233/2016-17

BILL OF QUANTITIES

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)	PS	27	65000	1,755,000
7.2	SS-9.2.1(b)	Provide equipment and furniture for Resident Engineer's Office	Not Payable			
7.3	SS-£.2.1(c)	Maintain Resident Engineer's Office	PS	27	55,000	1,485,000
7.4	SS-9.2.2(a)	Provide Residential Engineer;s Housing (Rental)	PS	27	75,000	2,025,000
7.5	SS-9.2.2(b)	Provide equipment and furnutre for Resident Engineer's Housing	Not Payable			
7.6	SS-9.2.2(c)	Maintain Resident Engineer's Housing	PS	27	65,000	1,755,000
7.7	SS-9.2.3(a)	Provide Engineer's Base Laboratory (Rental)	PS	27	60,000	1,620,000
7.8	SS-9.2.3(b)	Provide Equipment and furniture For Engineer's	Not Payable			
7.9	SS-9.2.3(c)	Maintain Engineer's Base Laboratory	PS	27	55,000	1,485,000
7.10	SS-9.2.4(a)	Provide Engineer's Vehicle 1. Fortunure or Equivalent , NO 1 2. Honda Civic , NO 1 3.Toyota Corolla (GLI) CNG or equivalent, NO 1 4.Toyota Corolla (GLI) CNG or equivalent, NO 1 5.Toyota Corolla (XLI) CNG or equivalent, NO 3	Not Payable			
7.11	SS-9.2.4(b)	Maintenace of Engineer's Vehicle 1. Fortunure or Equivalent , NO 1 2. Honda Civic , NO 1 3.Toyota Corolla (GLI) CNG or equivalent, NO 1 4.Toyota Corolla (GLI) CNG or equivalent, NO 1 5.Toyota Corolla (XLI) CNG or equivalent, NO 3	PS PS PS PS PS	24 36 24 36 75	70000 70000 70000 80000 70000	1,680,000 2,520,000 1,680,000 2,880,000 5,250,000
7.12	SS-9.3.1(a)	Provide, equip and furnish Field Accommodation	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						24,135,000