GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

DETAIL ESTIMATE

Infrastructure Specialist
Gwadar-Lasbela
Livelihoods Support
Project, Gwadar

GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

GENERAL ABSTRACT OF COST

S.NO	Description	Total PC-1 AMOUNT (Pak Rs.)
A	**ROAD WORKS**	
1	EARTH WORK	
2	SUB BASE AND BASE COURSE	
3	SURFACE COURSE AND PAVEMENT	
B	**STRUCTURES WORKS**	
1		
C	**ANCILLARY WORKS**	
	SUB TOTAL (A+B+C+D)	
D	Add 4% BSTS	
	Total Capital Cost. (A to D) **Total in (Million)**	

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II
CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA
ESTIMATE
ABSTRACT OF COST

S.No	Description	PC-1 Amount (Pak Rs.)
A	**ROAD WORKS**	
1	EARTH WORK	
2	SUB BASE AND BASE COURSE	
3	SURFACE COURSE AND PAVEMENT	
B	**STRUCTURES WORKS**	
1		
C	**ANCILLARY WORKS**	
	TOTAL =	
	MILLION	

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

DETAIL OFBILL # 1 EARTH WORK

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COMMUNICATION & WORKS DEPARTMENT
CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

Detail Quantities CSR 2018

S No	Description of items	Unit	Rate	QTY	AMOUNT
BILL No.1: EARTH WORK					
1	Clearing and grubbing (removal) of roots including scarifying natural ground upto 8" (20mm) depth and disposal of roots **(S.i.No 21-10 b)**	Sqm	14.60	16335.71	238,501.40
2	Preparation and compaction upto 95% modified AASHTO of natural ground upto a depth of 8" (20mm) in ordinary soil **(S.i.No 21-10 a)**	Sqm	20.15	16335.71	329,164.61
3	Excavation or cutting to a required grade, camber and side slopes including dressing top and sides and disposal of excavated material within a lift of 5ft (1.5m) and lead upto 100 ft. (30m) **All Kind of Soil (S.i.No 21-1a)**	Cum	258.25	17.67	4,563.28
4	Excavation or cutting to a required grade, camber and side slopes including dressing top and sides and disposal of excavated material within a lift of 5ft (1.5m) and lead upto 100 ft. (30m) **Gravelly Soil (S.i.No 21-1c)**	Cum	298.70	4.65	1,388.96
5	Excavation or cutting in **soft rock** by hammering, chiselling and pick or jumper work and disposal of the excavated matertial within a lift 5 ft. (1.5m) and lead upto 100 ft. (30m). **(S.i.No 21-2-1)**	Cum	630.00	0.47	292.95
6	Excavation or cutting in **hard rock** by blasting and disposal of excavated material within a lift of 5 ft. (1.50m) and lead upto 100 ft. (30m **(S.i.No 21-4-1)**	Cum	1141.35	0.47	530.73
7	Making earthen embankment with earth taken from approved borrow pits including cost of excavation, placing in layers not exceeding 9" (230mm) in depth including dressing top and sides of the bank within a lift of 5 ft. (1.5m) and lead upto 100 ft. (30m). (Excluding the royality of Earth, Compaction and its carriage) Compaction of earthen embankments to full depth and width below sub-grade level by mechanical means in layers not exceeding 8" (200mm) in depth at optimum moisture content including watering and mixing by mechanical means. The sub-grade embankments shall be compacted to at least 95% modified AASHTO maximum dry density for their full depth and width.				
	(S.i.No 21-6c+21-9)	Cum	464.05	12966.00	6,016,872.30
	Total				**6,591,314.22**
Above/ below _____% Premium if any on CSR 2018					
	G.total				

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA (LENGTH 1.7 Km)

CG & NGC

Chainage	Length(m)	Left	Right	Total Width	Average Width	Area
00+000	0	2.821	2.813	5.634	0.000	0.000
00+025	25	3.608	3.593	7.201	6.418	160.438
00+050	25	4.140	4.064	8.204	7.703	192.563
00+075	25	4.410	4.015	8.425	8.315	207.863
00+100	25	4.044	4.771	8.815	8.620	215.500
00+125	25	4.058	5.125	9.183	8.999	224.975
00+150	25	5.036	5.234	10.270	9.727	243.163
00+175	25	4.953	5.201	10.154	10.212	255.300
00+200	25	4.870	5.444	10.314	10.234	255.850
00+225	25	4.239	5.503	9.742	10.028	250.700
00+250	25	4.531	4.789	9.320	9.531	238.275
00+275	25	4.545	5.122	9.667	9.494	237.338
00+300	25	4.315	5.455	9.770	9.719	242.963
00+325	25	4.861	5.485	10.346	10.058	251.450
00+350	25	4.881	5.161	10.042	10.194	254.850
00+375	25	4.750	4.761	9.511	9.777	244.413
00+400	25	4.483	4.391	8.874	9.193	229.813
00+425	25	4.647	4.505	9.152	9.013	225.325
00+450	25	4.729	4.844	9.573	9.363	234.063
00+475	25	4.999	5.183	10.182	9.878	246.938
00+500	25	4.845	5.521	10.366	10.274	256.850
00+525	25	4.603	4.877	9.480	9.923	248.075
00+550	25	4.565	5.138	9.703	9.592	239.788
00+575	25	4.528	4.560	9.088	9.396	234.888
00+600	25	4.587	4.780	9.367	9.228	230.688
00+625	25	5.230	5.304	10.534	9.951	248.763
00+650	25	5.010	5.166	10.176	10.355	258.875
00+675	25	5.220	4.963	10.183	10.180	254.488
00+700	25	5.486	5.046	10.532	10.358	258.938
00+725	25	5.480	5.670	11.150	10.841	271.025
00+750	25	5.529	6.081	11.610	11.380	284.500
00+775	25	5.721	6.358	12.079	11.845	296.113
00+800	25	6.361	6.656	13.017	12.548	313.700
00+825	25	6.707	6.923	13.630	13.324	333.088
00+850	25	7.232	7.196	14.428	14.029	350.725
00+875	25	7.081	7.284	14.365	14.397	359.913
00+900	25	6.736	7.077	13.813	14.089	352.225
00+925	25	7.965	7.208	15.173	14.493	362.325
00+950	25	6.941	6.801	13.742	14.458	361.438
00+975	25	5.344	5.253	10.597	12.170	304.238
01+000	25	4.236	3.717	7.953	9.275	231.875
01+025	25	3.936	3.032	6.968	7.461	186.513
01+050	25	3.284	3.302	6.586	6.777	169.425
01+075	25	3.340	3.344	6.684	6.635	165.875
01+100	25	3.017	3.427	6.444	6.564	164.100
01+125	25	3.455	3.615	7.070	6.757	168.925
01+150	25	3.794	3.771	7.565	7.318	182.938
01+175	25	4.653	4.885	9.538	8.552	213.788

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Livelihoods Support
Project, Gwadar

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA (LENGTH 1.7 Km)

CG & NGC						
Chainage	**Length(m)**	**Left**	**Right**	**Total Width**	**Average Width**	**Area**
01+200	25	4.702	5.404	10.106	9.822	245.550
01+225	25	4.411	5.229	9.640	9.873	246.825
01+250	25	4.453	4.635	9.088	9.364	234.100
01+275	25	3.849	4.598	8.447	8.768	219.188
01+300	25	4.753	4.453	9.206	8.827	220.663
01+325	25	4.871	4.462	9.333	9.270	231.738
01+350	25	4.367	4.085	8.452	8.893	222.313
01+375	25	4.489	4.778	9.267	8.860	221.488
01+400	25	3.746	4.584	8.330	8.799	219.963
01+425	25	3.394	3.934	7.328	7.829	195.725
01+450	25	3.622	3.806	7.428	7.378	184.450
01+475	25	3.682	4.517	8.199	7.814	195.338
01+500	25	3.924	4.654	8.578	8.389	209.713
01+525	25	4.184	4.791	8.975	8.777	219.413
01+550	25	3.938	4.720	8.658	8.817	220.413
01+575	25	4.087	4.559	8.646	8.652	216.300
01+600	25	4.265	4.398	8.663	8.655	216.363
01+625	25	4.347	4.377	8.724	8.694	217.338
01+650	25	4.483	4.578	9.061	8.893	222.313
01+675	25	4.542	4.776	9.318	9.190	229.738
01+700	25	4.182	4.975	9.157	9.238	230.938
					Total Quantiry	**16335.713**

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA (LENGTH 1.7 Km)

Earth Work							
Chainage	Length(m)	Cut Area(Sq.m)	Avearge of Cut Area(Sq.m)	Cut Volume(Cu.m)	Fill Area(Sq.m)	Avearge of Cut Area(Sq.m)	Fill Volume(Cu.m)
00+000	0	1.640	0.000	0.000	0.000	0.000	0.000
00+025	25	0.000	0.820	20.500	2.020	1.010	25.250
00+050	25	0.000	0.000	0.000	4.830	3.425	85.625
00+075	25	0.000	0.000	0.000	3.850	4.340	108.500
00+100	25	0.000	0.000	0.000	4.360	4.105	102.625
00+125	25	0.000	0.000	0.000	5.050	4.705	117.625
00+150	25	0.000	0.000	0.000	7.820	6.435	160.875
00+175	25	0.000	0.000	0.000	7.280	7.550	188.750
00+200	25	0.000	0.000	0.000	6.630	6.955	173.875
00+225	25	0.000	0.000	0.000	5.270	5.950	148.750
00+250	25	0.000	0.000	0.000	5.720	5.495	137.375
00+275	25	0.000	0.000	0.000	6.350	6.035	150.875
00+300	25	0.000	0.000	0.000	7.130	6.740	168.500
00+325	25	0.000	0.000	0.000	7.010	7.070	176.750
00+350	25	0.000	0.000	0.000	6.450	6.730	168.250
00+375	25	0.000	0.000	0.000	6.100	6.275	156.875
00+400	25	0.000	0.000	0.000	6.000	6.050	151.250
00+425	25	0.000	0.000	0.000	6.240	6.120	153.000
00+450	25	0.000	0.000	0.000	7.670	6.955	173.875
00+475	25	0.000	0.000	0.000	8.870	8.270	206.750
00+500	25	0.000	0.000	0.000	9.910	9.390	234.750
00+525	25	0.000	0.000	0.000	6.580	8.245	206.125
00+550	25	0.000	0.000	0.000	6.890	6.735	168.375
00+575	25	0.000	0.000	0.000	5.800	6.345	158.625
00+600	25	0.000	0.000	0.000	6.110	5.955	148.875
00+625	25	0.000	0.000	0.000	8.540	7.325	183.125
00+650	25	0.000	0.000	0.000	8.720	8.630	215.750
00+675	25	0.000	0.000	0.000	8.350	8.535	213.375
00+700	25	0.000	0.000	0.000	7.740	8.045	201.125

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA (LENGTH 1.7 Km)

Earth Work

Chainage	Length(m)	Cut Area(Sq.m)	Avearge of Cut Area(Sq.m)	Cut Volume(Cu.m)	Fill Area(Sq.m)	Avearge of Cut Area(Sq.m)	Fill Volume(Cu.m)
00+725	25	0.000	0.000	0.000	8.680	8.210	205.250
00+750	25	0.000	0.000	0.000	10.160	9.420	235.500
00+775	25	0.000	0.000	0.000	12.120	11.140	278.500
00+800	25	0.000	0.000	0.000	15.260	13.690	342.250
00+825	25	0.000	0.000	0.000	17.980	16.620	415.500
00+850	25	0.000	0.000	0.000	21.150	19.565	489.125
00+875	25	0.000	0.000	0.000	21.600	21.375	534.375
00+900	25	0.000	0.000	0.000	21.750	21.675	541.875
00+925	25	0.000	0.000	0.000	21.250	21.500	537.500
00+950	25	0.000	0.000	0.000	17.450	19.350	483.750
00+975	25	0.000	0.000	0.000	11.770	14.610	365.250
01+000	25	0.000	0.000	0.000	8.250	10.010	250.250
01+025	25	0.000	0.000	0.000	3.710	5.980	149.500
01+050	25	0.110	0.055	1.375	2.630	3.170	79.250
01+075	25	0.000	0.055	1.375	3.780	3.205	80.125
01+100	25	0.000	0.000	0.000	2.780	3.280	82.000
01+125	25	0.000	0.000	0.000	4.560	3.670	91.750
01+150	25	0.000	0.000	0.000	5.080	4.820	120.500
01+175	25	0.000	0.000	0.000	10.430	7.755	193.875
01+200	25	0.000	0.000	0.000	12.170	11.300	282.500
01+225	25	0.000	0.000	0.000	11.240	11.705	292.625
01+250	25	0.000	0.000	0.000	7.990	9.615	240.375
01+275	25	0.000	0.000	0.000	5.550	6.770	169.250
01+300	25	0.000	0.000	0.000	5.620	5.585	139.625
01+325	25	0.000	0.000	0.000	6.830	6.225	155.625
01+350	25	0.000	0.000	0.000	6.460	6.645	166.125
01+375	25	0.000	0.000	0.000	5.410	5.935	148.375
01+400	25	0.000	0.000	0.000	3.780	4.595	114.875
01+425	25	0.000	0.000	0.000	1.730	2.755	68.875

Infrastructure Specialist
Gwadar-Lasbela
Livelihoods Support
Project, Gwadar

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA (LENGTH 1.7 Km)

Earth Work							
Chainage	Length(m)	Cut Area(Sq.m)	Avearge of Cut Area(Sq.m)	Cut Volume(Cu.m)	Fill Area(Sq.m)	Avearge of Cut Area(Sq.m)	Fill Volume(Cu.m)
01+450	25	0.000	0.000	0.000	2.420	2.075	51.875
01+475	25	0.000	0.000	0.000	2.970	2.695	67.375
01+500	25	0.000	0.000	0.000	3.450	3.210	80.250
01+525	25	0.000	0.000	0.000	4.010	3.730	93.250
01+550	25	0.000	0.000	0.000	4.390	4.200	105.000
01+575	25	0.000	0.000	0.000	5.060	4.725	118.125
01+600	25	0.000	0.000	0.000	5.520	5.290	132.250
01+625	25	0.000	0.000	0.000	5.850	5.685	142.125
01+650	25	0.000	0.000	0.000	5.880	5.865	146.625
01+675	25	0.000	0.000	0.000	5.790	5.835	145.875
01+700	25	0.000	0.000	0.000	5.680	5.735	143.375
Total Length(m)	**1,700.00**	**Total Cutting (Cu.m)**		**23.25**		**Total Filling (Cu.m)**	**12,966.00**

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

BILL#2SUB BASE & BASE

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

ESTIMATE

S.No	Description	Unit	Rate	QTY	AMOUNT
BILL NO. 2: SUB BASE					
1	Providing and laying pitrun gravel in sub base or base course of any thickness to required grade and camber including watering and compacting with road roller with all lead and lift. (compacted thickness to be measured)(including royalty of approved Quarry).**(S.i No 21-15b)**	Cum	1,001.00	940.61	941,545.61
	Carriage of 100 Cft. (2.83 cu.m) of all materials like Clay, stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. 25 % Extra to be paid for hilly area, 25% Extra for Hard Area, 20% more for Kucha Road, 15% more for desert road **(S.i.No 1b) Upto 10th Km** **(S.i.No 1b) After 10th Km to 88th Km**	 Cum Cum	 76.90 16.90	 332.37 332.37	 255,591.96 438,129.16
2	Providing and laying graded aggregate base course of crushed stone of approved quality, including placing, mixing, spreading, watering and compacting base course to required depth, camber and grade to achieve 100% max. modified AASHTO dry density conforming to AASHTO specifications T -180, with mechanical means and with all lead and lift. (Carriage of crushed stone is included in the rate, within 5km of Project premises) **(S.i No 21-17-1)**	Cum	1,580.65	1,254.66	1,983,171.06
	Carriage of 100 Cft. (2.83 cu.m) of all materials like Clay, stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. 25 % Extra to be paid for hilly area, 25% Extra for Hard Area, 20% more for Kucha Road, 15% more for desert road **(S.i.No 1b) Upto 10th Km** **(S.i.No 1b) After 10th Km to 88th Km**	 Cum Cum	 76.90 16.90	 443.34 443.34	 340,929.33 584,412.28
Sub.Total					**4,543,779.39**
Above/ below _____% Premium if any on CSR 2018					
G.Total					

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

Detail Quantities

Natural pitrun gravel 50 mm (2") Supplying

S.NO	Description	Unit	No,s	Granular sub base						Remarks
				Chainage (Km)		L (M)	W (M)	H (M)	Qty (Cum)	
				From	To					
1	Granular sub base	Cum	1	00+000	01+718	1718	3.65	0.15	940.61	Main Road
								Total	940.61	

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

Detail Quantities

Aggregate Base Course

S.NO	Description	Unit	No,s	Sggregate Base Course						Remarks
				Chainage (Km)		L (M)	W (M)	H (M)	Qty (Cum)	
				From	To					
1	Aggregate Base	Cum	1	00+000	01+718	1718	3.65	0.15	940.61	Main Road
2	Aggregate Base	Cum	2	00+000	01+718	1718	0.914	0.10	314.05	Shoulders
								Total	1254.66	

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

BILL#3SURFACING

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

ESTIMATE

Sr. No.	Description of Item	Unit	Rate	QTY	Amount
BILL NO. 3: SURFACING					
1	Providing and applying prime coat of liquid asphalt (cut back) of any approved grade using asphalt (cut back) including cleaning and brooming of road surface.**(S.I.No. 21-23-a)**	Sqm	226.45	6270.70	1,420,000.02
2	Providing and laying hot-mix bituminous concrete in road pavement laid with mechanical paver and mixed in central mixing plant in required thickness and density, rolled hot with different types of rollers complete as per specifications and job-mix formula and design in single layer **Asphalt Wearing Course 50mm (2") thickness.(S.I.No. 21-32 c) - (Detection for Tack Coat 21-24-1)-82.25**	Sqm	1,236.95	6270.70	7,756,542.37
3	Surface dressing in two coats including supply of bitumen 80/100 or any approved grade and approved crushed aggregate of approved size and grade for road surface with rolling (including royalty of Quarry). **D.S.T Shoulders (S.I.No. 21-20)**	Sqm	400.40	3140.50	1,257,457.80
Sub.Total					**10,434,000.18**
Add 60% on Bitumen work					6,260,400
Total					**16,694,400**
Above/ below _____% Premium if any on CSR 2018					
G.Total					

Infrastructure Specialist
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Livelihoods Support
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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

Detail Quantities

Prime Coat

S.No	Description	Unit	No,s	Chainage (Km)		L (M)	Width (M)	Quantity (Sqm)	Remarks
				From	To				
1	Prime Coat	Sqm	1	00+000	01+718	1718	3.65	6271	Main Road
							G.Total	6270.70	

Infrastructure Specialist
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Project, Gwadar

GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

Detail Quantities

Asphalt Wearing Course

S.No	Description	Unit	No,s	Chainage (Km)		L (M)	Width (M)	Quantity (Sqm)	Remarks
				From	To				
1	Asphlat Wering Course	Sqm	1	00+000	01+718	1718	3.65	6271	Main Road
							G.Total	6270.70	

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GWADAR-LASBELA LIVELIHOODS SUPPORT-PHASE # II

CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

Detail Quantities

D.S.T

S.No	Description	Unit	No,s	Chainage (Km)		L (M)	Width (M)	Quantity (Sqm)	Remarks
				From	To				
1	D.S.T	Sqm	2	00+000	01+718	1718	0.91	3141	Shoulder Both Side
							G.Total	3140.50	

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

BILL #5 ANCILLARY WORKS

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

BILL OF QUANTITIES

BILL NO. 5: ANCILLARY WORKS

S.No	Description of items	Unit	Rate	Quantity	Amount
1	Providing and fixing road sign boards such as caution etc as approved by the Engineer with reflective paints, having superfacial area of 1.125 sq.m including cost of post etc.**(S.I.# 21-84-1)**	Each	2930.17	5.0	14,650.85
2	P/L Road Marking With Recflective TP Thermoplastic) paint for lines of 12.50 cm width. (YELLOW) **(S.I.# 17-50-1)**	R M	472.10	3436.0	1,622,135.60
3	P/L Road Marking With Recflective TP Thermoplastic) paint for lines of 12.50 cm width.(WHITE) **(S.I.# 17-50-1)**	R M	472.10	1202.6	567,747.46
5	P/L Road Marking With Recflective TP Thermoplastic) paint for 4 meters arrows. **(S.I.# 17-50-1)**	R m	472.10	6.0	2,832.60
6	Reflectorized Plastic Pavement Stud (Raised Profile Type - Double) **(S.I.# 21-86 b)**	Each	416.25	437.0	181,901.25
7	Providing and fixing 6" x 6" x 30" (150mm x 150mm x 750mm) precast 1:2:4 cement concrete boundary pillars using graded crushed aggregate embedded in cement concrete 1:4:8 including formwork and its removal, compacting and curing including cost of excavation. (including royalty of Quarry). **(S.I.# 21-53-1)**	Each	940.10	2.0	1,880.20
8	Providing and fixing 9" x 4" x 30" (230mm x 100mm x 750mm) precast 1:2:4 cement concrete kilometer stone using graded screened bajri, embedded in cement concrete 1:4:8, formwork and its removal, compacting and curing including the cost of excavation, cement cost 1:4:8 backfilling of excavated stuff, cement plaster with 1:3 cement engraving and writing letters of approved size, painting two coats as desired. **(S.I.# 21-55-1)**	Each	988.55	2.0	1,977.10
Sub.Total					**2,393,125.06**
Above/ below _____% Premium if any on CSR 2018					
G.Total					

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA
DETAIL

Pavement Marking

S. No.	Description	Unit	No,s	Chainage (Km)		L (M)	Qty (M)	Remarks
				From	To			
1	P/L Road Marking With Recflective TP Thermoplastic) paint for lines of 12.50 cm width. (YELLOW)	M	2	00+000	01+718	1718	3436.0	Both sides full length Main Road
						Total	**3436.0**	

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

DETAIL ESTIMATE

Pavement Marking

S. No.	Description	Unit	No,s	Chainage (Km)		L (M)	Qty (M)	Remarks
				From	To			
1	P/L Road Marking With Recflective TP Thermoplastic) paint for lines of 12.50 cm width.(WHITE)	M	1	00+000	01+718	1718	1202.6	At centre in 70% of length Main Road
						Total	**1202.6**	

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA
DETAIL

Pavement Marking

S. No.	Description	Unit	No,s	Chainage (Km)		L (M)	Qty (M)	Remarks
				From	To			
1	P/L Road Marking With Recflective TP Thermoplastic) paint for lines of 12.50 cm width.(WHITE Arrows)	M	3			2	6.0	Arrows
						Total	**6.0**	

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

DETAIL ESTIMATE

Reflectorized Pavement Stud (Raised Profile Type-Double)

S No.	Description	Unit	No,s	Chainage (Km)		L (M)	Qty (M)	Remarks
				From	To			
1	Main Road	Each	2	00+000	01+718	1718	430	In 2 Rows having 8m interval Main Road
4	Crossing	Each	2			7.32	7.0	In 2 Rows having 3m interval
						Total	437	

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DETAIL ESTIMATE

Right of way marker (0.15 x 0.15 x 0.75) M

S No.	Description	Unit	Chainage (Km)		L (M)	No,s	Qty (M)	Remarks
			From	To				
1	Main Rod	Each	00+000	01+718	1718	1	2	2 Km interval Both Side
					Total		2	

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CONSTRUCTION OF BLACKTOPPED ROAD SAPAT ROAD LASBELA

DETAIL ESTIMATE

Kilometer post (0.45x0.114x0.76m)

S No.	Description	Unit	Chainage (Km)		L (M)	No,s	Qty (M)	Remarks
			From	To				
1		Each	00+000	01+718	1718	1	2	2 Km interval on Both Sides
					Total		2	

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