

AKOT NAGAR PARISHAD AKOT

DETAILED ESTIMATE

NAME OF WORK:- **CONSTRUCTION OF CEMENT CONCRETE ROAD
FROM DARAYAPUR ROAD TO SAWITA ANANTARAO
CHAPAKE HOUSE VITHHAL NAGAR NEAR
SHRADHHA SAGAR NAGAR PARISHAD AKOT TQ-
AKOT DIST-AKOLA**

ESTIMATED COST:- ~~**1113473.00**~~
10,97,000.00

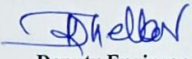
RECAPITULATION SHEET

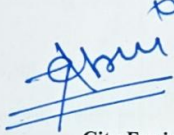
CONSTRUCTION OF CEMENT CONCRETE ROAD FROM DARAYAPUR ROAD TO SAWITA ANANTARAO CHAPAKE HOUSE VITHHAL NAGAR NEAR SHRADHHA SAGAR NAGAR PARISHAD AKOT TQ-AKOT DIST-AKOLA

Sr.No	Item		Amount
A	Civil Work Cost	RS	882452.00 876227
B	Testing Charges	RS	9660.00 ✓
C	Royalty Charges	RS	22809.00 ✓
D	ADD G.S.T. 18% [A]	RS	158841.00 157703.0
E	ADD LABOUR INSURANCE 0.5% [A]	RS	4412.00 4381.00
F	Third Party 1%	RS	8825.00 8761.00
G	Contingencis 3% 2%	RS	26474.00 17523.0
TOTAL A + B + C +D+E+F+G		RS	113473.00 1096963
		SAY	1113473.00

10,97,000-00

Consultant Engineer
Nagar Parishad Akot


Deputy Engineer
Nagar Parishad Akot


City Engineer
Nagar Parishad Akot


Chief officer
Nagar Parishad Akot

checked by me
#

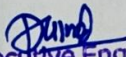
Technically Sanctioned for Rs. 10,97,000.00

In Words Rs. Ten lakhs ninety
seven thousand only.

Gross Only. Vide Item No. "137"

of Form No.85 for the month of Sept-25

Vide T.S.Order No. 2371 Dt. 30-09-25


Executive Engineer
Maha.Jeevan Pradhikaran
Division, Akola

ABSTRACT SHEET
CONSTRUCTION OF CEMENT CONCRETE ROAD FROM DARAYAPUR ROAD TO SAWITA ANANTARAO
CHAPAKE HOUSE VITHHAL NAGAR NEAR SHRADHHA SAGAR NAGAR PARISHAD AKOT TQ-AKOT DIST-
AKOLA

Sr.No.	Item of work	Qty.	Rate	Unit	Amount
1	Item No :-1 Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as direc [SSR-2022-23, ITEM NO-2.11. Page No-26]	36.00	123.71	Cum.	4453.56
2	Item No :-2 Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm. to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard proctor density for [SSR-2022-23, ITEM NO-2.26. Page No-28]	36.00	408.56	Cum	14708.16
3	Item No :-3 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Vibratory roller. to the required density. By Mechanical Means - Grading I (Using Screening Type A (13.2) mm Aggregate) [SSR-2022-23, ITEM NO- 3.18. Page No-29]	36.00	2925.59	Cum	105321.24
4	Item No :-4 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with vibratory roller to the required density. By Mechanical Means - Grading II (Using Screening Type B (11.2 mm) Aggregate) [SSR-2022-23, ITEM NO- 3.20 Page No-29]	24	2873.77	Cum	68970.48
5	Item No :-5 Supplying hard murum/ kankar at the road site, including conveying and stacking complete. [SSR-2022-23 ,ITEM NO-2.29a. Page No-28]	32.10	845.67	Cum	27146.01
6	Item No :-6 Spreading hard murum/ soft murrum/ gravel or kankar for side width complete [SSR-202-23 ,ITEM NO-2.30 Page No-28]	32.10	82.13	Cum	2636.37

Sr.No.	Item of work	Qty.	Rate	Unit	Amount
7	Item No :-7 Compacting the sub grade/gravel/oversize metal (200 mm loose) layers for all width with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. [SSR-2022-23 ,ITEM NO-50.59 PageNo-440]	294	28.07	Sqm	8252.58
8	Item No :-8 M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan [SSR-2022-23 ,ITEM NO-24.01 Page No- 175]	24	6523.13	Cum	156555.12
9	Item No :-9 Providing, cutting, bending, hooking, tying and laying in position TMT FE 500 steel bars for reinforcement for all RCC works as per detailed drawings etc. complete. [SSR-2022-23 ,ITEM NO-14.01 Page No-93]	0.64116	91959.30	MT	58960.62
10	Item No :-10 Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen (excluding reinforcement) with coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) etc. complete with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. [SSR-2022-23 ,ITEM NO-5.22 Page No-44]	36	9220.86 9396.54	Cum	331951.00 338275.44
11	Item No :-11 Painting Line, Dashes, Arrows etc on Roads in two coats on new work with ready mixed road marking paint confirming to I.S. 164 on Bituminous surface including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control (Over/Upto __ cm wide) (MORTH-803) --____ Surface Over 10cm Wide On New Surface [SSR-2022-23 ,ITEM NO-5.18 Page No-44]	18	203.76	Sqm	3667.68

Sr.No.	Item of work	Qty.	Rate	Unit	Amount
12	<p>Item No :-12 Supplying and Fixing of Molded Shank Raised Pavement Markers / Cat's Eye made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 +/- 2 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer.</p> <p>[SSR-2022-23 ,ITEM NO-6.09 Page No-47]</p>	40	380.49	No	15219.6
13	<p>Item No :-13 Excavation for catch / side water gutter in all sorts of soils to the specified section including stacking the excavated stuff in a regular bund and disposing of unsuitable or excess stuff as directed all sorts of soils</p> <p>[SSR-2022-23 ,ITEM NO-2.18 Page No-24]</p>	3.24	123.71	Cum	400.82
14	<p>Item No :-14 Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.</p> <p>[SSR-2022-23 ,ITEM NO-2.25 Page No-24]</p>	2.916	202.72	Cum	591.13
15	<p>Item No :-15 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.</p> <p>[SSR-2022-23,ITEM NO-21.40 Page No-194]</p>	0.81	1966.60	Cum	1592.95

Sr.No.	Item of work	Qty.	Rate	Unit	Amount
16	<p>Item No :-16</p> <p>Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)</p> <p>[SSR-2022-23 ,ITEM NO-25.11 Page No-178]</p>	0.36	7818.85 7824.76	Cum	2813.00 2816.91
17	<p>Item No :-17</p> <p>Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete</p> <p>[SSR-2022-23 ,ITEM NO-26.33 Page No-188]</p>	0.04649	93375.24	MT	4341.01
18	<p>Item No :-18</p> <p>Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and rougheningthem if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)</p> <p>[SSR-2022-23 ,ITEM NO-26.17 Page No-185]</p>	1.71	16748.89	Cum	28640.6
19	<p>Item No :-19</p> <p>Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 450mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.</p> <p>[SSR-2022-23 ,ITEM NO-11.08 Page No-81]</p>	5	2026.18	Rmt	10130.9
20	<p>Item No :-20</p> <p>Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.</p> <p>[SSR-2022-23 ,ITEM NO-11.09 Page No-81]</p>	5	2841.23	Rmt	14206.15

Sr.No.	Item of work	Qty.	Rate	Unit	Amount
21	Item No :-21 Providing and fixing board displaying information, such as "Name of work, Tender cost, Name of Contractor, Work completion and liability period etc", having rectangular shape of 1.20m x 0.90m size made up of 4 mm aluminum composite pannel sheet with 0.5 mm skin thickness on either side bonded with white retro reflective sheeting of Class C (Type XI Micro prismatic grade sheeting) having pressure sensitive adhesive. Retro reflective sheeting with specified background, border and back side retro reflective symbols, letters, numerals, arrow as per IRC: 67-2012 Table No 8.3, on M.S.angle of size 35 x 35 x 3 mm frame with nonerly cross braced M S. angles of size 35mmx35mmx3mm [SSR-2022-23 ,ITEM NO-53.85 Page No-511]	1	15564.89	No	15564.89
			Total		882452.22
	[A] Total RS.		882452.00		876127.00
22	Item No :-22 TESTING CHARGES A Basic Test of Cemet 1 Standard Consistency Fineness, Specific Gravity , Setting Time (initial and final) Compressive Strength, B Fine Aggregates 1 Fineness Modulus (Sieve Analysis) Silt & Clay Content 2 Silt Factor C Soil / Murum 1 Sieve Analysis 2 Liquid Limit & Plastic Limit D Concrete 1 Compressive Strength of C C Cubes (Set of Three Cubes) E Basic Test of aggregates Water Absorption , Specific Gravity, Impact Value, Crushing 1 Value 2 Sieve Analysis 3 Flakiness Index & Elongation index.	0	3770.00	No	0
		1	1380.00	No	1380
		1	850.00	No	850
		1	690.00	No	690
		0	1170.00	No	0
		6	690.00	No	4140
		1	2600.00	No	2600
		0	690.00	No	0
		0	850.00	No	0
	[B] Total RS.		Total		9660
23	Item No :-23 Royalty Charges A Sand B 80 MM, MURUM, 40 MM	0	237.37	Cum	0
		105.51	216.18	Cum	22809.15
			Total		22809.15
	[C] Total RS.		22809.00		

MEASUREMENT SHEET

**CONSTRUCTION OF CEMENT CONCRETE ROAD FROM DARAYAPUR ROAD TO SAWITA ANANTARAO
CHAPAKE HOUSE VITHHAL NAGAR NEAR SHRADHHA SAGAR NAGAR PARISHAD AKOT TQ-AKOT DIST-
AKOLA**

No.	Item of work	No.,	L	B	D/H	QTY.	UNIT
1	Item No :-1 Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. [SSR-2022-23, ITEM NO-2.11. Page No-26] For Road	1	60	4	0.15	36.00	Cum
						36.00	
2	Item No :-2 Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm. to 30cm. breaking clods, dressing to the required lines, curves, grades and section, [SSR-2022-23, ITEM NO-2.26. Page No-28]					36.00	Cum
3	Item No :-3 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Vibratory roller. to the required density. By Mechanical Means - Grading I (Using Screening Type A (13.2) mm Aggregate) [SSR-2022-23, ITEM NO- 3.18. Page No-29] For Road	1	60	4	0.15	36.00	Cum
						36.00	
4	Item No :-4 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with vibratory roller to the required density. By Mechanical Means - Grading II (Using Screening Type B (11.2 mm) Aggregate) [SSR-2022-23, ITEM NO- 3.20 Page No-29] For Road	1	60	4	0.1	24.00	Cum
						24	
5	Item No :-5 Supplying hard murum/ kankar at the road site, including conveying and stacking complete. [SSR-2022-23 ,ITEM NO-2.29a. Page No-28] Blancating Road Side Filling	1	60	4	0.1	24.00	Cum
		2	60	0.45	0.15	8.10	
						32.10	

No.	Item of work	No.	L	B	D/H	QTY.	UNIT
6	Item No :-6 Spreading hard murum/ soft murrum/ gravel or kankar for side width complete [SSR-202-23 ,ITEM NO-2.30 Page No-28] Road Side Filling					32.10	Cum
						32.10	
7	Item No :-7 Compacting the sub grade/gravel/oversize metal (200 mm loose) layers for all width with Power roller having weight 8 to 10 MT. including necessary, labour, materials and artificial watering complete. [SSR-2022-23 ,ITEM NO-50.59 PageNo-440] Blancating Road Side Filling	1	60	4		240	Sqm
		2	60	0.45		54	
						294	
8	Item No :-8 Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate [SSR-2022-23 ,ITEM NO-24.01 Page No- 175] For Road	1	60	4	0.1	24	Cum
					24		
9	Item No :-9 Providing, cutting, bending, hooking, tying and laying in position TMT FE 500 steel bars for reinforcement for all RCC works as per detailed drawings etc. complete. [SSR-2022-23 ,ITEM NO-14.01 Page No-93] 8 MM BAR For Road 0.30 m x0.30 m Long Bar Short Bar	14	60			840	Rmt Kg MT
		201	4			804	
						1644	
						641.16	
					0.64116		
10	Item No :-10 Providing and laying in situ cement concrete M -30 with tremix treatment for 200 mm thickness for Concrete Road is including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen (excluding reinforcement) with coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) etc. complete with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. [SSR-2022-23 ,ITEM NO-5.22 Page No-44]	1	60	4	0.15	36	Cum
						36	

No.	Item of work	No.,	L	B	D/H	QTY.	UNIT
11	<p>Item No :-11</p> <p>Painting Line, Dashes, Arrows etc on Roads in two coats on new work with ready mixed road marking paint confirming to I.S. 164 on Bituminous surface including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control (Over/Upto _____ cm wide) (MORTH-803) -- _____ Surface Over 10cm Wide On New Surface</p> <p>[SSR-2022-23 ,ITEM NO-5.18 Page No-44]</p>	2	60	0.15		18 18	Sqm
12	<p>Item No :-12</p> <p>Supplying and Fixing of Molded Shank Raised Pavement Markers / Cat's Eye made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 +/- 2 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30 +/- 2 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The contractor shall submit a two year warranty for satisfactory field performance</p> <p>[SSR-2022-23 ,ITEM NO-6.09 Page No-47]</p>	40				40 40	No
13	<p>Item No :-13</p> <p>Excavation for catch / side water gutter in all sorts of soils to the specified section including stacking the excavated stuff in a regular bund and disposing of unsuitable or excess stuff as directed all sorts of soils</p> <p>[SSR-2022-23 ,ITEM NO-2.18 Page No-24]</p>	1	6	0.9	0.6	3.24 3.24	Cum
14	<p>Item No :-14</p> <p>Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.</p> <p>[SSR-2022-23 ,ITEM NO-2.25 Page No-24]</p> <p>90%</p>					2.916 2.916	Cum

No.	Item of work	No.	L	B	D/H	QTY.	UNIT
19	Item No :-19 Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 450mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete. [SSR-2022-23 ,ITEM NO-11.08 Page No-81]	2	2.5			5 5	Rmt
20	Item No :-20 Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete. [SSR-2022-23 ,ITEM NO-11.09 Page No-81]	2	2.5			5 5	Rmt
21	Item No :-21 Providing and fixing board displaying information, such as "Name of work, Tender cost, Name of Contractor, Work completion and liability period etc", having rectangular shape of 1.20m x 0.90m size made up of 4 mm aluminum composite pannel sheet with 0.5 mm skin thickness on either side bonded with white retro reflective sheeting of Class C (Type XI Micro prismatic grade sheeting) having pressure sensitive adhesive. Retro reflective sheeting with specified background, border and back side retro reflective symbols, letters, numerals, arrow as per IRC: 67-2012 [SSR-2022-23 ,ITEM NO-53.85 Page No-511]	1				1 1	No
22	Item No :-22 TESTING CHARGES A Basic Test of Cemet 1 Standard Consistency Fineness, Specific Gravity , Setting Time (initial and final) Compressive Strength, B Fine Aggregates 1 Fineness Modulus (Sieve Analysis) Silt & Clay Content 2 Silt Factor C Soil / Murum 1 Sieve Analysis 2 Liquid Limit & Plastic Limit D Concrete 1 Compressive Strength of C C Cubes (Set of Three Cubes) E Basic Test of aggregates 1 Water Absorption , Specific Gravity, Impact Value, Crushing Value 2 Sieve Analysis 3 Flakiness Index & Elongation index.	0 1 1 1 0 6 1 0 0				0 1 1 1 0 6 1 0 0	No No No No No No No No No

No.	Item of work	No.,	L	B	D/H	QTY.	UNIT
23	Item No :-23						
	Royalty Charges						
A	Sand					0	Cum
B	80 MM, MURUM, 40 MM						
NO	ITEM	Qty	Co-eficiant				
3	Providing, laying, spreading and compacting stone	36.00	1.21			43.56	
4	Providing, laying, spreading and compacting stone	24	1.21			29.04	
5	Supplying hard murum/ kankar at the road site, including	32.10	1			32.1	
15	Providing soling using 80 mm size trap metal in 15 cm.	0.81	1			0.81	
						105.51	Cum

Deputy Engineer
Nagar Parishad Akot

City Engineer
Nagar Parishad Akot