

NAME OF WORK:- CONSTRUCTION OF VARIOUS STRUCTURE MINOR BRIDGE, BOX CULVERT, PROTECTION WALL, GABION WALL AND SLAB DRAIN OF WAGHODIA, KARJAN, DABHOI, SINOR, SAVLI AND PADRA TALUKA DIST. VADODARA UNDER MMGSY(N) PACKAGE NO. 53/ 2025-26 1) JHAJHAD MOLETHA ROAD AT ROAD KM. 1/200 TO 1/400 TA:- SHINOR 2) AWAKHAL TERSA ROAD AT ROAD KM. 0/400 TO 0/600 IN TA. SHINOR 3) MANJROL DAMAPURA ROAD AT KM. 0/600 TO 0/800 IN TA. DABHOI. 4) HADOD SABHOI ROAD AT KM. 1/800 TO 2/000 IN DIST. KARJAN. 5) DABHOI KARNET ROAD AT KM.4/600 TO 4/800 IN TA. DABHOI. 6) SHANKARPURA BODINDRA ROAD AT KM.0/6 TO 0/8 TA. WAGHODIA. 7) PATOD TO ZAVERIPURA ROAD AT KM 0/200 TO 0/400 TA.PADRA 8) RANU TO VADADLA ROAD AT 1) 0/800 TO 1/000 , 2) 1/400 TO 1/600 TA. PADRA. 9) TUNDAV TO NAMISARA ROAD AT CH. 1/6 TO 1/8 TA:-SAVLI. 10) CHORANDA RANAPUR ROAD AT KM 6/2 TO 6/4 IN TA.KARJAN

-: SCHEDULE FOR TESTING OF MATERIALS :-

For ensuring quality control and workmanship various tests prescribed below for materials shall be taken at periodical intervals as stipulated below. The materials shall be got tested at Government recognized Laboratory (R&B) or District Laboratory of GERI (R&B) for which 1% of the estimated amount put to tender shall be recovered from the contractor from the RA bills and final bills and the testing charges shall be paid to the GERI by the Government . However if the charges increase over 1% no excess recovery shall be made from the contractor as per resolution of B & C department dated 10th May 1985 vide TNC/ 1085/ (4)/ S

Sr. No.	Description of Item	Total Qty as per Tender	Unit	Name of laboratory Test	Frequency at which test shall be carried out	Total No of test to be taken.
1	All Aggregate	11964.49	Cum.	- Gradation test - Impact value - Flakiness and elongation - Los Abrasion - Sp. Gravity & W.A - Soundness - Alkali Reactivity - Density - Deleterious Materials	100 Cum 1 101-500 3 501-1500 5 1501-5000 7 Minimum 1 test/ work	14
2	Grit	-	Cum.	Gradation test Impact value Flakiness and elongation Los Abrasion Sp. Gravity & W.A Soundness Alkali Reactivity Density Deleterious Materials Stripping value	100 Cum 1 101-500 3 501-1500 5 1501-5000 7 Minimum 1 test/ work 	-
3	Granular materials	-	Cum	Gradation test Atterbeg limits 	100 Cum 1 101-500 3 501-1500 5 1501-5000 7 Minimum 1 test/ work	-

4	Sand / quarry spall	3428.00	Cum.	Silt content	Two test per season or change of river	2 Nos. or more as required.
				Gradation	One test per 200 cum.	18
				Sieve Analysis & Fineness Modules	Two test per work and change of soil strata or source	2 Nos. or more as required.
				Sp. Gravity & W.A		
				Procter Test		
				CBR test		
5	Murum	-		P I Value	One test per 50 cum	-
6	Bitumenous Work, Asphalt	40.10	MT	Penetration test as per IS 1203	1 to 10 tanker 1 test	1
				Ductility test as per IS 1208	11 to 20 tanker 2 test	
				Specific gravity test as per IS 1202	21 to 50 tanker 3 test	
				Softening point test as per IS 1204	51 to 100 tanker 4 test	
				Viscosity test as per IS 1206	101 & above - 4+1 test for every 30 Tanker or part of thereof.	
7	Cement	4283.00	MT	Consistency	Up to 50 MT 1 test	67
				Setting time	100 MT 2 test	
				Compressive strength	200 MT 3 test	
				Fineness	300 MT 4 test	
				Chemical analysis	500 MT 5 test	
				Soundness	800 MT 6 test	
					1300 MT 7 test	
					and 8 test for larger consignment and minimum 1 sample for each consignment less then 50 M.T.	
8	C.C. Cubes	11425.97	Cum.	Compressive Strength (I.S. 516)	1 to 5 cum 1 No	232
					6 to 15 cum 2 No	
					16 to 20 cum 3 No	
					21 to 50 cum 4 No	
					51 cum and above 4+1 No (For each additional 50 m ³ or part thereof)	
9	Water	-		Chemical test	Once for approval of source of supply	As per engineer incharge.
10	T.M.T. Fe 550D	460.00	MT	Tensile Strength	1 test/ 40 tonnes/ per category	12
				Yield Stress	Number of coils 3 in 25, 4-65, 5 -180, 7-300, 10 over 300	1 test per each category
				Elongation		
				Size		
				Reverse- bend for ductility		

11	Structural Steel	-	MT	Bend	One for 20 tonnes	-
				Tensile, yield, elongation	One for 40 tonnes	-
				Rebend	One for 20 tonnes	-
12	Earth Work	3718.10	Cum.	Sand Content [IS: 2720 (Part-4)]	2 tests per 3000 cum of soil.	4
				Plasticity Test [IS:2720 (Part-5)]	2 tests per 3000 cum of soil.	4
				Density Test [IS:2720 (Part-8)]	2 tests per 3000 cum of soil.	4
				Moisture Content Test [IS :2720 (Part-2)]	1 tests per 250 cum of soil.	15
				CBR Test	One CBR test for every 3000 cum. at least or closer as and when required by the Engineer.	2
13	For Granular Sub Base	2118.99	Cum.	Gradation test	1 to 100 cum- 1 test	7
				Impact value	101 to 500 cum- 3 test	
				Flakiness and elongation	501 to 1500 cum- 5 test	
				Los Abrasion	1501 to 5000 cum- 7 test	
				Sp. Gravity & W.A	1 test / work	
				Soundness		
				Alkali Reactivity		
				Density		
				Deleterious Materials		
14	Prime coat / Tack coat	16925.00	Sqm	Quality of binder binder	Number of samples per lot and test as per IS:73 At regular close intervals Two test per 500 m2 and not less than two test per day	68
				Temperature for application		
				Rate of spread of binder		
15	WBM	1152.79	Cum.	Aggregate Impact value	1 to 100 cum- 1 test	5
				Flakiness and elongation index	101 to 500 cum- 3 test	
				Water Absorption	501 to 1500 cum- 5 test	
				Gradation test	1501 to 5000 cum- 7 test	
				Stripping value		
16	BUSG/ BT Carpet/ Seal Coat	693.53	Cum.	Aggregate Impact value	1 to 100 cum- 1 test	5
				Flakiness and elongation index	101 to 500 cum- 3 test	
				Water Absorption	501 to 1500 cum- 5 test	
				Gradation test	1501 to 5000 cum- 7 test	
				Stripping value		
17	Retro reflective sheeting for the signage	219.00	No.	Co-efficient of Retro Reflection.	3 redings for 10 boards for each colour.	As per norms
18	Cat eye	331.00	Each	Co-efficient of Luminous Intensity - ASTM D4280	1 sample for each colour.	As per norms

19	Hot applied Thermoplast Road marking	331.30	Sqm	(RL) Retro Reflectivity (mcd/m2/lux) Proportions of constituents of Marking Material Skid Resistance	5 readings for every 5 Km.	As per norms
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The Number of tests will be as per Manual of quality control or latest Govt. G.R./Circular and it will be considered final. The contractor shall have to pay 1% of the estimated cost put to tender towards all testing of materials and the same shall be deducted from their bills for the works.

Testing charges of GERI shall be borne by Govt. No refund be made nor extra charges over 1% shall be recoverable from the contractor.

If directed by the Engineer in charge, the materials intended to be used for the work but not included in the above schedule shall also be got tested at Government recognized Laboratory or field Laboratory.

Signature of Contractor

**Deputy Executive Engineer
Panchayat (R&B) Sub Division
Dabhoi**

**Executive Engineer
Panchayat (R&B) Division
Vadodara**

**Deputy Executive Engineer
Panchayat (R&B) Sub Division
Waghodia**

**Deputy Executive Engineer
Panchayat (R&B) Sub Division
Karjan**

**Deputy Executive Engineer
Panchayat (R&B) Sub Division
Savli**

**Deputy Executive Engineer
Panchayat (R&B) Sub Division
Padra**