

Name of Work :- Bhalej Ode Ahima Road Km 0/00 to 14/700 (FDR, Asphalt Work, CC Road, Structure work, RCC Rainwater Gutter, Crash Barrier and Road Furniture work)

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 a got tested at Government recognised Laboratory, (R & B) or field Laboratory of GERI (R & B) for which 1 % of the estimated amount put to tender shall be recovered from the contracture from the RA bills and Final bills at 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. & R & B Department G.R No. SSR - 1092 - 1 B 129 / 10 / C Dated 24-10-1994.

Item No as per Schedule "B"	Brief Decryption of Materials to Be Tested	Quantity of Materials	Prescription of Test Which Shall Be Carried out	Frequency @ Which Test shall be Carried out		Total No of Test To Be Taken
1	For WBM Work		Gradation Test	1 to 100 Cum	1 Test	Test
GSB BT	B.T. Metal 53 to 26.5 mm	- Cum	Impact Value	101 to 500 Cum	3 Test	0 Test
	B.T. Metal 26.5 to 4.75 mm	- Cum	Flakiness Index	501 to 1500 Cum	5 Test	0 Test
Unscreened Gravel (GSB)	Stone Dust	- Cum	Abrasion Value	1501 to 5000 Cum	7 Test	0 Test
	Unscreened Gravel	- Cum	Water absorption			0 Test
GSB BT Gr-I	Coarse Sand	- Cum				0 Test
	B.T. Metal 53 to 26.5 mm	466.13 Cum				3 Test
GSB BT Gr-IV	B.T. Kapchi 26.5 to 9.5 mm	381.38 Cum				3 Test
	B.T. Grit 9.5 to 4.75 mm	206.49 Cum				3 Test
GSB BT Gr-IV	B.T. Kapchi 26.5 to 9.5 mm	- Cum				0 Test
	B.T. Kapchi 9.5 to 4.75 mm	- Cum				0 Test
WBM 40-63	Stone Dust below 4.75 mm	- Cum				0 Test
	B.T. Metal 45 to 63 mm	961.95 Cum				5 Test
WBM 40-63 (II)	B.T. Grit 13.2 to 4.75 mm	127.20 Cum				3 Test
	B.T. Metal 40 to 63 mm	- Cum				0 Test
WMM	B.T. Grit 6 to 10 mm	- Cum				0 Test
	Stone Dust	- Cum				0 Test
R.C.C. work	B.T. Metal 45 to 22.4 mm	624.30 Cum				5 Test
	B.T. Kapchi 22.4 to 2.36 mm	832.40 Cum				5 Test
Asphalt work	Stone Dust (for all items)	9,120.74 Cum				7 Test
	Rubble	41.00 Cum				1 Test
20 mm MSS	B.T. Metal 40 to 63 mm	- Cum				0 Test
	B.T. Kapchi 20 mm	2,036.58 Cum	Gradation Test	1 to 100 Cum	1 Test	7 Test
50 / 75 mm BM	B.T. Grit 6 to 10 mm	- Cum	Impact Value	101 to 500 Cum	3 Test	0 Test
	Stone Dust	- Cum	Flakiness Index	501 to 1500 Cum	5 Test	
25 mm SDBC			Abrasion Value	1501 to 5000 Cum	7 Test	
	B.T. Grit 5.6 To 11.2 mm	537.37 Cum	Water absorption			5 Test
50 / 60 mm DBM	B.T. Grit 2.8 To 5.6 mm	787.06 Cum	Stripping Value			5 Test
	Stone Dust 0.09 To 2.8 mm	Cum				0 Test
25 mm SDBC						
	B.T. Metal 19 to 26.5 mm	- Cum				0 Test
50 / 60 mm DBM	B.T. Kapchi 13.2 to 19 mm	- Cum				0 Test
	B.T. Grit 4.75 to 13.2 mm	- Cum				0 Test
25 mm SDBC	B.T. Grit 2.36 to 4.75 mm	- Cum				0 Test
	B.T. Grit 0.075 to 2.36 mm	- Cum				0 Test
50 / 60 mm DBM						
	B.T. Kapchi 9.5 to 13.2 mm	- Cum				0 Test
25 mm SDBC	B.T. Grit 4.75 to 9.5 mm	- Cum				0 Test
	B.T. Grit 2.36 to 4.75 mm	- Cum				0 Test
50 / 60 mm DBM	B.T. Grit 2.36 to 0.075 mm	- Cum				0 Test
	Stone Dust 0.075 to 2.36 mm	- Cum				0 Test
50 / 60 mm DBM						
	B.T. Metal 26.5 to 19 mm	1,867.94 Cum				7 Test

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	B.T. Kapchi 19 to 13.2 mm B.T. Grit 13.2 to 4.75 mm B.T. Grit 4.75 to 2.36 mm Stone Dust 2.36 to 0.075 mm	1,651.12 Cum 2,418.31 Cum 1,217.49 Cum Cum				7 Test 7 Test 5 Test 0 Test
	30 / 40 mm BC B.T. Kapchi 19 to 13.2 mm B.T. Kapchi 13.2 to 9.5 mm B.T. Kapchi 9.5 to 4.75 mm B.T. Grit 4.75 to 2.36 mm Stone Dust 2.36 to 0.075 mm	730.94 Cum 730.94 Cum 1,169.50 Cum 824.92 Cum Cum				5 Test 5 Test 5 Test 5 Test 0 Test
3	Murum	- Cum	P.I Value	One Test Per 50 Cum		0 Test
4	GSB (Unscreened Gravel)	Cum	Silt Content	One Test Per 150 Cum		0 Test
4 -A	Sand / Coarse Sand	1,198.44 Cum	Silt Content	One Test Per Source		8 Test
5	Quarry Spall	2,940.00 Cum	CBR Test	One Test Per work		7 Test
5-A	Rubble	41.00	Gradation Test	One Test Per 200 Cum		1 Test
6	Asphalt Asphalt For Mixing	1,533.05 M.T. M.T.	Penetration Test As Per I.S 1203 Ductility Test Specification Gravity Test Softening Point Test Viscosity Test	<u>No Of Tanker</u> 1 5 to 10 11 to 20 20 to 50 50 to 500 Above 501 (4 + 1 Additional Test for Every 50 Tanker) As Per I.S 1208 As Per I.S 1202 As Per I.S 1204 As Per I.S 1206	<u>Test</u> 1 1 2 3 4	4 Test
7	Tack Coat	M.T.	Binder Temperature For Application Rate Of Spread of Binder	Irregular close in Intervals Two Tests Per Day		
8	Carpet, BM, DMB, BC 20 mm MSS 50 / 60 mm DBM 30 / 40 mm BC 50 mm B.M. 25 mm S.D.B.C.	29,834.00 M.T. 2,714.00 M.T. 16,678.00 M.T. 10,442.00 M.T. - M.T. - M.T.	Gradation @ Plant Site Binder Content @ Plant Site Temperature of Binder in Boiler aggregates in the Drayer and mix at the time of laying and rolling. Rate of Spreader Mix Materials	One Test Per 100 MT Mix & Minimum Two Test Per Day One Test Per 100 MT Mix & Minimum Two Test Per Day Regular Control through Checks Regular Control through Checks on Layer Thickness		299 Test 299 Test
9	Bricks	- No	Water Absorption Effloresce Size Compressive Strength	One Test Per 50000 Bricks		0 Test
9	Cement	722.20 M.T.	Consistency Setting Time Compressive Strength	As Per GERI Manual 2002 Up to 50 T 100 T 200 T	1 Test 2 Test 3 Test	6 Test

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			Fineness Chemical analysis Soundness	300 T 500 T 800 T 1300 T For Large Consignment	4 Test 5 Test 6 Test 7 Test 8 Test	
10	Steel	1.100 M.T.	Tensile Strength Yield Stress Elongation Size	1 Test / 40 Tonnes Per Category		1 Test / 40 Tonnes Per Category
11	C.C Cube	Cum	Compressive Strength	<u>Qty In CUM</u>	<u>Test</u>	Test
	M-100 (1:3:6)	- Cum	(I.S 516-1959)	1 to 5	1	0 Test
	M-150 (1:2:4)	- Cum		6 to 15	2	0 Test
	M-200	137.00 Cum		16 to 30	3	6 Test
	M-250	- Cum		31 to 50	4	0 Test
	M-300	1,250.00 Cum		51 And Above	4+1	28 Test
	M-400	- Cum				0 Test
	M-81	- Cum.		(For each additional 50 Cum or Part thereof)		0 Test

* The number of tests will be as per Manual of Quality Control or Latest Govt. G.R / Circulars will be Final

The Contractor shall have to pay 1% of the estimate cost put to tender towards all testing of materials & the same shall be deducted from their bills for the works. The testing of various materials shall be carried out in GERI and result received shall be binding to all i.e. The Contractor and Government.

Testing charges of GERI shall be born by the Government. No refund be made nor extra charges over 1 % shall be recoverable from the Contractor.

Signature of Contractor


Deputy Executive Engineer
R & B Sub-Division,
ANAND.


Executive Engineer
R & B Division,
ANAND.