

## Road and Building Department

**Name of Work: - 4403-Construction Of Animal Husbandry At Rapar,Ta-Rapar**

### Schedule for Materials Testing

For ensuring quality control and workmanship, various tests prescribed below corresponding to the material concerned shall be taken as periodic intervals as stipulated belowbe taken..

The material shall be got tested through Govt. Recognized laboratory (R & B) of field laboratory of GERI (R & B) for which 1% of the estimated Amount of tender shall be paid by the Govt. to the GERI. 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. Minimum 10% of total tests for each material shall be carried out in Govt. Laboratory i.e. GERI

| Sr. No. | Brief Description of material to be tested                             | Prescription of Test which shall be carried out                                                      | Frequency @ which test shall be carried out                                                                                                                                      | Est. Qty of Material               | Unit | No of Tests Reqd.                 |
|---------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------|-----------------------------------|
| 1       | Cement                                                                 | 1 Consistency<br>2 Setting time<br>3 Fineness<br>4 Chemical Analysis<br>5 Soundness                  | Up to 50 M ton 1 Test<br>100 M ton 2 Test<br>200 M ton 3 Test<br>300 M ton 4 Test<br>500 M ton 5 Test<br>800 M ton 6 Test<br>1300 M ton 7 Test and 8 Test for Larger Consignment | 153.66                             | MT   | 3                                 |
| 2       | Steel<br>T.M.T. Fe 500D                                                | 1 Tensile Strength<br>2.Yield Stress<br>3 Elongation<br>4 Size<br>5.Chemical Analysis Test           | One test per 40 M ton per Category                                                                                                                                               | 32.06                              | MT   | 1-Test per each Category/ 40 M.T. |
| 3       | C.C. Cube<br>M7.5<br>M150 Ordinary<br>M200 Ordinary<br>M250 Controlled | 1 Compressive strength                                                                               | Qty (cmt) No.s of Test<br>Up to 5 1<br>6 to 15 2<br>16 to 30 3<br>31 to 50 4<br>51 and above - 1 Test / 50 cmt.                                                                  | 48.00<br>32.00<br>119.00<br>119.00 | Cmt. | 5<br>5<br>7<br>7                  |
| 4       | Sand                                                                   | 1 Silt content<br>2.Gradation<br>Finess Modules                                                      | One test per work (1 Test/150Cmt)                                                                                                                                                | 189.00                             | Cmt. | 2                                 |
| 5       | Murum                                                                  | PI Value                                                                                             | One test per work (1 Test/50Cmt)                                                                                                                                                 | 425.00                             | Cmt. | 4                                 |
| 6       | Aggregate for C.C.Work                                                 | 1 Water Absorption<br>2 Impact Value<br>3 Flakiness / elongation<br>4 Gradation<br>5 Srtipping Value | One test per work (1 Test/150Cmt)                                                                                                                                                | 211.00                             | Cmt. | 2                                 |



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|---------|--------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------|----------------------|------|-------------------|
| 7       | Water                                      | Chemical Analysis                                                         | One test per Source                         |                      |      | 1                 |
| 8       | Tiles                                      | Water Absorption<br>Size Tolerances<br>Transverse Strength<br>Abstraction | 1 Test per 2000 Nos<br>or<br>As Required    | 829.00               | Nos  | 1                 |
| 9       | Bricks                                     | Water Absorption<br>Efflorescence<br>Size<br>Compressive Strength         | 1 Test per 50000 Nos<br>or<br>As Required   | 107850.00            | Nos  | 3                 |

The Contractor shall have to pay 1% of the estimate cost put to tender towards all testing of materials & 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. contractor & Govt.

Testing charges of GERI Shall be born by Govt. No. refund be made of extra charge over 1% shall be recoverable from the contractor.

**Deputy Executive Engineer  
R&B Sub-Division, Rapar**

**Executive Engineer  
R&B Division, Bhuj**