

UNA NAGARPALIKA UNA, DIST. GIR - SOMNATH

NAME OF WORK :

PATCHWORK, REPAIRING & RESURFACING OF ASPHALT ROAD, C.C. ROAD & PAVER BLOCK ROAD DUE TO DAMAGE BY HEAVY RAINS IN VARIOUS AREAS OF UNA, DIST. GIR-SOMNATH

Material test schedule

| Sr. No. | Materials to be tested | Name of laboratory test | Frequency of testing | Remarks |
|---------|-------------------------|---|--|---|
| 1 | 2 | 3 | 4 | 5 |
| 1 | Water | Potability Salinity Chemical analysis | 1 test per each source of supply per every working season. | Or as required while execution or change of source. |
| 2 | Sand | Fineness modules Specific gravity Water absorption Clay & Fine silt content Gradation test Pentography exclusion | 1 test per each source of supply per every working season. | Or as required while execution or change of quarry. |
| 3 | Crushed Stone aggregate | Specific gravity Soundness Water Absorption Impact Value Gradation Test Crushing Test Abrasion Value Flakiness | 1 Test / 150 Cu.m | Or as required while execution or change of quarry. |

| Sr. No. | Materials to be tested | Name of laboratory test | Frequency of testing | Remarks |
|---------|---|--------------------------------------|---|---|
| 4 | H.B. Stone aggregate | Specific gravity | Upto 100 Cum. one Test | Or as required while execution or change of quarry. |
| | | Impact Value | | |
| | | Flakiness | | |
| | | Abration Value | | |
| | | Crushing Test | | |
| | | Water Absorption | | |
| 5 | Cement | Consistency | Upto 50 M.T. = 1 Sample | As per receipt of cement, one sample of 15 Kg. from 20 bags in consignment of 50 M.T. shall be taken for testing. Minimum one sample for each consignment less than 50 M.T. of cement received. |
| | | Initial & Final setting time | 50 to 100 M.T. = 2 Sample | |
| | | Compressive strength | 100 to 200 M.T. = 3 Sample | |
| | | Fineness | 200 to 300 M.T. = 4 Sample | |
| | | Soundness | 300 to 500 M.T. = 5 Sample | |
| | | Specific gravity | 500 to 800 M.T. = 6 Sample | |
| | | Chemical analysis | 800 to 1300 M.T. = 7 Sample | |
| 6 | Steel | Elongation | One test per 20 M.T. for each categories & every lots supplied. | Or as required while execution |
| | | Tensile Strength | | |
| | | Bend and rebend test | | |
| | | Yield Strength | | |
| | | Dimension Test | | |
| 7 | C.C. Cubes (Ordinary & Controlled C.C.) | Compressive Strength for 7 & 28 days | 1 to 5 Cum. = 1 Test | Or as required while execution |
| | | | 6 to 15 Cum = 2 Test | |
| | | | 16 to 30 Cum = 3 Test | |
| | | | 31 to 50 Cum = 4 Test | |
| | | | 51 & above 4 + 1 test each 50 Cum. | |
| 8 | White Stone Bela | Compressive strength | 1 Sample every 5000 Nos or change of quarry | Or as required while execution |
| | | Water absorption | | |
| | | Salt Efforence. | | |
| | | Dimension & Tollerance. | | |
| 9 | Coursed Rubble Stone | Compressive strength | 1 Sample every 5000 Nos or change of quarry | Or as required while execution |
| | | Water absorption | | |
| | | Salt Efforence. | | |
| | | Dimension & Tollerance. | | |

| Sr. No. | Materials to be tested | Name of laboratory test | Frequency of testing | Remarks |
|---------|----------------------------|---|---|---|
| 10 | Brick | Compressive strength Water absorption Salt Efflorescence. Dimension & Tolerance. | 1 Sample every 5000 Nos or change of quarry | Or as required while execution |
| 11 | Teak wood | Anatomy Test Density Test Moisture content Test | 1 Test per lot | Or as required while execution |
| 12 | Ties | Dimension Test Transverse Strength Water Absorption Abrasion Test | 1 Test per manufacturer. | Or as required while execution |
| 13 | Filling in excavation soil | Compaction Test Specific gravity Water absorption Clay & Fine silt content | Every 200 Sq.Mt. Area | Or as required while execution or change of quarry. |
| 14 | Murum | Compaction Test Specific gravity Water absorption Clay & Fine silt content | Every 200 Sq.Mt. Area | Or as required while execution or change of quarry. |

Note :

- 1 Testing of materials should be as per statement attached with the specification. The materials shall be tested in GERI Bill for testing shall be paid by the Deptt. and 1% (One percent) of amount put to tender from the running account bills of the work (As per G.R.(R&B) Deptt.No. TNC 1085/4/C Dt. 10-5-85.
- 2 Samples to be sent by contractor to GERI.

Signature of Contractor

**Chief Officer
UNA NAGARPALIKA
UNA**