

| Construction of Gram Panchayat office (for Population from 5000- 10000) at Village Shiyalbet Tal. Jafrabad Dist. Amreli | | | | | | | |
|--|---|----------------|-----------------------|--|---|--|---------|
| MATERIAL TESTING SCHEDULE | | | | | | | |
| Sr. No. | Description in brief | Total Quantity | Material to be tested | Name of laboratory test | Frequency | Total No. of test to be carried out | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Cement | 51.00 | Cement | 1) Initial & Final setting time | M.T. Test No. | 2 | |
| | | M.T. | | 2) Compressive strength | Up to 50 1 | | |
| | | | | 3) Consistency | 50 to 100 2 | | |
| | | | | 4) Fineness | 100 to 200 3 | | |
| | | | | 5) Soundness | 200 to 300 4 | | |
| | | | | | 300 to 500 5 | | |
| | | | | | 500 to 800 6 | | |
| | | | | | 800 to 1300 7 | | |
| | | | | | & 8 test for larger consignment | | |
| 2 | R.C.C. work in columns, beams, slabs, lintel, chhajjas, T.I. H/V fins. | | C.C. Cubes | 1) Compressive strength for 7 days & 28 days. | Cum. Test No. | | |
| | | | | | 1 to 5 1 | | |
| | | | | | 5 to 15 2 | | |
| | | | | | 16 to 30 3 | | |
| | M-25 | 21.60 | Cum | | 31 to 50 4 | 3 | |
| | M-20 | 67.00 | Cum | | 51 and above | 6 | |
| | | | | | test each | | |
| | | | | | 50 cum. 4+1 | | |
| | | | | N.D.T UPV, Hammer test | UVPV Test as directed by Engineer in Charge As per IS 516 | | |
| | | | | Core test | | | |
| | | | | | | | |
| 3 | Sand | 96 | Sand | 1) Fineness modulus | One test per season/river | 1 | |
| | | Cum | | 2) Specific gravity | | | |
| | | | | 3) Water absorption | | | |
| | | | | 4) Clay and fine silt content | | | |
| 4 | Water | | Water | 1) Potability | One test per | As required | |
| | | | | 2) Salinity | sources | while execution | |
| | | | | | | | |

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|------------|-------------------------|----------------|-----------------------|---------------------------|-----------------------------------|--|----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5 | T.M.T. Steel | 11.04 | T.M.T. Steel | 1) Tensile strength | One test | 1 | each dia |
| | | M.T. | | 2) Elongation | / 40 M.T./each category | | |
| | | | | 3) chemical reaction test | For every load supplier on site | | |
| 6 | Crushed stone aggregate | | | | | | |
| | 40mm crushed stone | 10.00 | Crushed stone | 1) Gradation | 1/150 M ³ for concrete | 1 | |
| | | Cum | aggregate | 2) Flekiness index | or as per requirement | | |
| | | | | 3) Impact value | of relevant specification | | |
| | | | | 4) Water Absorption | | | |
| | | | | 5) Crushing strength | | | |
| | 10mm-20mm crushed | 81 | Crushed stone | 1) Gradation | 1/150 M ³ for concrete | 2 | |
| | aggregate | Cum | aggregate | 2) Flekiness index | or as per requirement | | |
| | | | | 3) Impact value | of relevant specification | | |
| | | | | 4) Water Absorption | | | |
| | | | | 5) Crushing strength | | | |
| 9 | Bricks- Conventional | 33800 | Bricks | Comp. strength | 1 Test /50000No | 1 | |
| | | | | Water absorption | | | |
| | | | | Dimension | | | - |
| | | | | Efflorescence | | | |
| 8 | Ceramic tiles | 62.00 | Sqm | Comp. strength | 1 Test / Lot | 1 | each lot |
| | Vitrified tiles | 137.90 | Sqm | Water absorption | | 1 | each lot |
| | | | | Dimension | | 1 | each lot |
| | Polished Kotah stone | 11.30 | Sqm | Transverse stress | | 1 | each lot |
| | | | | Acid test | | 1 | each lot |

Signature of Contractor

*Deputy Executive Engineer
Panchayat R. & B. Sub Division
Rajula*

*Executive Engineer
Panchayat R. & B. Division
Amreli*