TECHNICAL SPECIFICATION FOR VITRIFIED TILES
1.0 Vitrified Porcelain Tiles

1.1 Vitrified polished porcelain floor tiles shall be of 1st quality. These vitrified tiles are classified under group B1a of the International Standard for ceramic tiles ISO: 13006. Tiles shall be hard, dense, impervious and frost resistant. Water absorption of tiles shall be less than 0.5% and flexural strength (Modulus of Rupture) shall be more than 35 N/Sqmm. Vitrified polished porcelain floor tiles shall be provided of sizes, colour, shades, texture and designs as indicated and if size not indicated it shall be 600mm x 600 mm/ 605 x 605 mm. The thickness shall be as specified by the manufacturer but not less than 8mm.

1.2 Heavy duty vitrified unpolished porcelain floor tiles for exterior use shall be of 1st quality. Heavy duty vitrified tiles shall be acid and alkali resistant, weather proof, anti skid and abrasion resistant as per International Standard for ceramic tiles ISO :13006 and EN 176 requirement. These tiles shall comply with the following requirements:
(a) Water absorption<2%
(b) Flexural Strength>35 N/Sqmm
(c) Moh's Hardness>6
(d) Abrasion resistance<204mm.

Heavy duty vitrified tiles shall be of sizes, colour, texture and designs as indicated but size if not indicated it shall be of 300mm x 300 mm . The thickness shall be as specified by the manufacturer.

1.0a Vitrified Porcelain Tiles flooring

1.0a.1 Bedding
The screed bed for laying Vitrified Porcelain Tiles shall be of cement and sand mortar as indicated. Bedding over which the tiles shall be laid shall not be less than 10mm at any place.

1.0a.2 Laying
Base concrete or RCC slab shall be cleaned and wetted. The bedding shall then be laid evenly over the surface, tamped and corrected to desired levels and allowed to harden enough to offer a rigid cushion to tiles. Before laying the tiles, tiles shall be washed and then applied fine cement slurry on the back of the tile to ensure full and proper bedding. Tiles shall then be placed on bedding, each tile being gently tapped with rubber hammer in its position till it is properly bedded and in level and line with adjoining tiles. Use of spacers is recommended for uniformity in joints and better finish. Remove the residual cement or jointing material immediately by a wet sponge. After 24 hours when the tiles are properly set and cured, fill the joint gaps with joint filler as per recommendation of manufacturer. The joint gap shall be filled by spreading joint filler paste in the spaces between the tiles with the help of rubber trowel. Clean the tiles surface immediately with the help of wet sponge.

Vitrified Porcelain Tiles can be laid in flooring over Base concrete or RCC slab directly by using suitable chemical adhesive as per manufacturer’s instructions if so indicated.