

LTEC Length

(m)

4,140

2.2.2 OTTA SEAL



- · Construction Method is the same as Chip Seal, it comprises of double seal and single seal Otta seal
- Seal coat MC-3000, rate 1.6 1.8 l/m2, grain size of aggregate 0 - 13mm, rate 0.015 m³/m²
- Prime coat MC-70, rate 0.85 l/m²
- Crushed Stone Base Course 150mm thick, CBR≥80%
- Granular Sub-base 120mm thick, CBR≥25%





2.2.5 Concrete Paving Blockroughton



- Use of precast concrete block on approved sub-base/sub-grade
- Method of construction is the same as paving block/tile on side walk or on a vard
- Joint between block shall be sealed by sand or crush dust, or dry mortar. This trial sealed by sand mixed with soil (1/3 by volume soil/sand)

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2.2.1. Sand Seal



- Seal coat MC-3000, rate 0.80 l/m² and spreading sand covers with a rate of 0.012m³/m². Use of steel wheel roller 12t compacts entirely
- Prime coat MC-70, rate 0.85 l/m²
- Crushed stone base course 150mm thick, CBR≥80%
- Granular sub-base 120mm thick, CBR ≥25%
- Selected sub-grade 150mm thick, CBR≥7% (depending upon existing sub-grade?









Hand Packed Stone







2.2.3 Bamboo R.C.



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- Construction method is the same as the method of construction of PCC pavement with wire mesh reinforcement, but this trial use of bamboo mesh instead of wire mesh
- Bamboo shall have a min. thickness of 5mm, min. age of 4 years, and dried
- Joint between concrete slab may or may not install Dowel Bar
- This trial Dowel Bar was not installed, but max. slab length = 5m



2.2.6 Hand Packed Stone



- Use of stone from guarry or from river place close to each other on approved sub-base/sub-grade
- Inserted small stone or gravel into the void, then fill of sand or crush dust mix with smaller chips
- Watering and use of light roller compact lightly
- Stone may or may not be dressed its shape. depending upon the objectivity of the project
- Method of construction is similar to Water bound Macadam construction method

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Otta Seal Pavement



2.2.4 Geocell



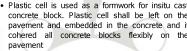
- · Use of plastic cell with a specific thickness installs on approved sub-based/sub-grade surface, then pour concrete into the cells and compact by hand
- Plastic cell is used as a formwork for insitu cast concrete block. Plastic cell shall be left on the pavement and embedded in the concrete and it cohered all concrete blocks flexibly on the

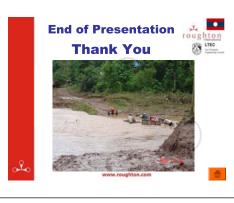
Thickness of Geocell in this trial areG 75mm, 100mm, 150mm



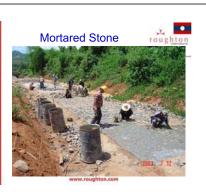
















- Method of construction is the same as Hand Packed Stone but use of cement mortar fill of joint between stones, it is similar to grouted stone riprap for protection
- Hand Packed Stone or Stone Packing has ever applied for heavy maintenance on National Road No. 8 in Borikhamsay Province. But the size of stone is thicker (25 – 30cm), the joint was filled by bitumen and overlaid by chip seal
- This project used stone thickness of 10cm for Hand Packed Stone and 6cm for Mortared Stone

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