

Keep your asphalt. Put the grid in the base and build thinner.



Orxa Energies, Bengaluru: campus road with OC-HD 40 at the WMM/GSB interface under the asphalt



1 The grid laid in the granular base



2 The asphalt goes on as before; the grid stays in the base



3 The finished road and parking: Orxa Energies

2.0×

base modulus, CBR 5%

22–24%

less bituminous, 3.5 MSA example

14%

thinner overall, 3.5 MSA

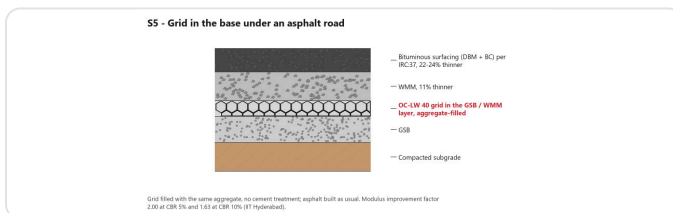
1 shift

per 1,000 m² added

Product cost: OC-LW 40 ₹51–64 per sq ft (₹550–690 per m²) · OC-HD 40 ₹84–107 per sq ft (₹900–1,150 per m²), by order size, ex-GST and ex-freight. **Installed:** design-specific; ₹251 per sq ft (₹2,700 per m²) materials in a 10,000 m² example, 14% below the conventional section; indicative.

WHAT IT IS

OC-LW 40 (OC-HD 40 for the heaviest traffic) laid at the GSB/WMM interface, aggregate-filled, with at least 100 mm of compacted WMM above it. The bituminous layers follow MoRTH and your specification: BC, SMA, mastic, cold mix or a RAP mix. Nothing changes above the grid.



WHERE IT FITS

Campus, township and approach roads · parking · plant peripheral roads · weak subgrades where the granular base would otherwise be thick.

WHY IT WINS

- **The base gets twice as stiff.** Modulus improvement factor 2.00 on a CBR 5% subgrade and 1.63 on CBR 10%, in large-scale tests at IIT Hyderabad.
- **So the layers get thinner.** In the IIT Hyderabad design examples (IITPAVE, IRC:37): 14% thinner at 3.5 MSA, with 22–24% less bituminous and 11% less granular.
- **Your contractor's scope stays the same.** Same plant, same crew; the grid adds one shift per 1,000 m².
- **Weak ground.** The grid does the work of the extra aggregate.

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Large-scale tank and beam tests; Orxa Energies campus road, Bengaluru, built by the client's contractor.

CHOOSE S5 WHEN

- The client or consultant keeps asphalt
- A weak subgrade or a thinner base (tested at CBR 5–10%)

NOT IDEAL WHEN

- No asphalt in scope: S1 or S2 costs less
- CBR outside 5–10% without verification

WHAT WE NEED FROM YOU

- Area (length × width or m²) and location
- Heaviest vehicle and vehicles a day
- Soil CBR, or the soil type
- The finish you want
- A site photo or layout drawing



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