

## **Tender for “Resurfacing & repair work of internal bituminous roads and paths at NID Campus, Ahmedabad”**

### **Technical Specification**

**Item 1:** 2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc.

- a) With paving Asphalt grade VG - 30 with no solvent

**The work shall be carried out as per nomenclature of the item and CPWD specification 2019, Vol-II, Page-793-795, Item 16.30**

**Item 2:** Providing and laying seal coat of premixed fine aggregate ( passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 30 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with power road roller all complete.

**The work shall be carried out as per nomenclature of the item and CPWD specification 2019, Vol-II, Page-806-808, Item 16.35**

**Item 3:** Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth (excluding thickness of brick paving to be dismantled as per item No 6 below), dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres

AND

Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness in two layers, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density.

- i) 1st layer 100 mm thick with 90 mm to 45 mm size aggregate and stone screening 13.2 mm nominal size (1.25 Cum per 10 Sqm) and moorum (0.09Cum per 10 Sqm)  
ii) 2nd layer 100 mm thick with 53 mm to 22.4 mm size aggregate and stone screening 11.2 mm nominal size (0.96 Cum per 10 Sqm) and moorum (0.09Cum per 10 Sqm)

**The work shall be carried out as per nomenclature of the item and CPWD specification 2019, Vol-II, Item 16.2 @ Page-768-769, Item 16.7 @ Page 775-778(except VG -30 will be used instead VG – 10)**

**Item 4:** Providing and applying tack coat using hot straight run bitumen of grade VG - 30, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications

- a) On new W.B.M. @ 0.75 Kg / sqm

**Item 5:** Providing and applying tack coat using hot straight run bitumen of grade VG - 30, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface including scrapping of existing bituminous road surface and removal of all loose material and disposal of the same outside NID campus.

- a) On bituminous surface @ 0.50 kg/sqm

**The work (Item 4 & Item 5) shall be carried out as per nomenclature of the item and CPWD specification 2019, Vol-II, Page-791, Item 16.28 (except VG -30 will be used instead VG – 10)**

**Item 6:** Dismantling and removing the existing road (brick paving beside newly constructed RCC boundary wall) and stacking the serviceable material and disposal of rubbish outside of NID Campus..

**The work shall be carried out as per nomenclature of item and as per direction of NID technical team**

**Item 7:** Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete.

- a) 300 mm dia. R.C.C. pipe

**The work shall be carried out as per nomenclature of the item and CPWD specification 2019, Vol-II, Page-1023-1026, Item 19.2.2**