

Tender for: "Resurfacing & repair work of internal bituminous/concrete roads and paths including kerb stone removing/re-fixing at appropriate place of NID Campus, Ahmedabad"

NIT No. : NID/02/ 2022-23

Bill of Quantity

Sr. No	Item No.	Description	Unit	Qty.	Rate	Amount (Rs.).
1	16.33	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. complete (tack coat to be paid for separately).				
	16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm.	3200		
2	16.41	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete.	Sqm.	9000		
3	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm.	100		
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.3	1:2:4 (1 Cement : 2 Coarse Sand : 4 Graded Stone Agreeage 20 mm nominal size)	Cum.	6		
5	16.82	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in- Charge.	Rmt.	1000		
6	16.85	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	Rmt.	1000		
7	16.1	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, 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.	Sqm.	175		
8	16.3	Supplying and stacking at site.				
	16.3.1	90 mm to 45 mm size stone aggregate	Cum.	23		
	16.3.3	53 mm to 22.4 mm size stone aggregate	Cum.	13		
	16.3.6	Stone screening 13.2 mm nominal size (Type A)	Cum.	7		

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	16.3.7	Stone screening 11.2 mm nominal size (Type B)	Cum.	2.5		
	16.3.10	Moorum	Cum.	3		
9	16.40	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, 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.	Cum.	31		
10	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, 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				
	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm.	175		
	16.30.2	On bituminous surface @ 0.50 kg/sqm	Sqm.	3000		
11	NDSR	Dismantling and removing the existing road (beside newly construction RCC boundary wall) and stacking the servicable material inside / outside of NID Campus.	Cum.	35		
12	NDSR	Laying and spreading and compacting of available/dismantled road material with the use of road roller to make sub base for laying WBM	Cum.	35		
13	16.6	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.				
	16.6.4	300 mm dia. R.C.C. pipe	Rmt.	5		
		TOTAL				