

VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR.

SCHEDULE -B

Name of work : Asphalting & widening of internal roads at VNIT.

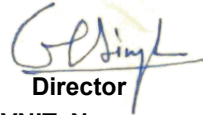
Item no.	Description	Estimated Qty.	Unit	Rate in ₹		Amount in ₹
				(in figure)	(in words)	
1	BITUMINOUS MACADAM:--Providing and laying bituminous macadam using crushed aggregate of Grading 1, premixed with bituminous binder, transported at site with VTS, laid over a previously prepared surface , finished to the required grade ,level, alignment,and rolling to achieve the desired density for 80/100mm compacted thickness with drum mix type hot mix plant with SCADA having complying essential features of Hot mix plant as per IRC-27 2009 specified conditions and attachments such as electronic load sensor based belt conveyers,automatic synchronization of bitumen and aggregate fedder,built in dust controller system and PLC for Drum Mix plant ,Sensor paver,and Vibratory roller , including pneumatic dusting prior to laying including prime/Tack coat etc. complete --Bitumen 3.30% of specified grade (VG-30 bulk bitumen rates are considered to arrive at rates)	690.00	Cu.m.			
	Spec. No. M.O.R.T. & H.-2013.No.504/P. No.170					
2	Providing and applying tack coat on the prepared surface heating by flames in Boiler and spraying bitumen set footed in bitumen boiler on B.T. surface 2.5 kg/10 sqm.VG-30 bulk bitumen.	110000.00	Sq.m.			
	Spec. No. M.O.R.T. & H.-2013 CI-503 Page No. 168 & IRC16					

Item no.	Description	Estimated Qty.	Unit	Rate in ₹		Amount in ₹
				(in figure)	(in words)	
3	Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction, including pneumatic dusting prior to laying but excluding prime / tack and Seal coat. For Bitumen of specified grade-- USING drum mix type hot mix plant with SCADA, Paver and Vibratory roller(over BT Surface) (VG-30 bulk bitumen rates are considered to arrive at rates)	55000.00	Sq.m.			
	Spec. No. M.O.R.T. & H.-2013 CL-510 Page No. 198.					
4	9 MM SEAL COAT: Providing and laying of Type A 9mm premix seal coat with HMP of appropriate capacity crushed stone chipping 6.7 mm size and penetration bitumen of specified grade @ 1.2kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT. etc. complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	55000.00	Sq.m.			
	Spec. No. M.O.R.T. & H.-2013 CI-511 Page No. 205					
5	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes complete	973.00	Sq.m.			
	Spec. No. M.O.R.T. & H.-2013 CI-803 Page No. 338					

Item no.	Description	Estimated Qty.	Unit	Rate in ₹		Amount in ₹
				(in figure)	(in words)	
6	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 60 mm thickness of having a strength of 300 kg/Sq.cm. of approved quality and shape on a bed of crushed sand of 50 mm thick including necessary excavation and cleaning etc. complete.	11676.00	Sq.m.			
	Spec. No. As directed by Engineer in charge.					
7	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, plywood/steel formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand.	150.00	Cu.m.			
	Spec. No. Bd.E.4/Page No.289/I.S.456 (2000)					
					Total Contract Amount ₹	

Plus GST as applicable

Contractor


Director
VNIT, Nagpur