

## ESTIMATE

### Name of Work : Construction and Widening of road in the Campus .Phase-II

SI No	Description of Item	Unit	Qty	Rate	Amount	Reference
1	Preparation and consolidation of sub grade with power road roler of 8-12tonne capacity after excavating earth to an average of 22.5Cm depth , dressing to camber and consolidation with road roller including making good the undulations etc and rerolling the sub grade and disposal of surplus earth lead upto 50mtrs	Sq.M	10487.00			
2	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means overareas (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including disposal of excavted earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed (All kinds of Soil)	Cum	9430.00			
3	Earthwork in rough excavation banking excavated earth in layers not exceeding 20Cm in depth, breaking clods watering , rolling each layer with ½ tonne roller or wooden or steel rammers and rolling every third and top most layer with power roller of minimum 8tonne and dressing up in embankments for roads flood bans marginal banks and guide banks or filling up ground depressions lead upto 50mtr and lift upto 1.5M	Cum	4140.00			
4	Collection of sand for road and plinth filling work and stacking at road side with regular box heaps etc complete.	Cum	2413.00			
5	Conveying from stacks and filling sand in formation and foundation trenches well watered and rammed.	Cum	2413.00			
6	Conveyance of Materials such as stone metal refuse,garbage, rubbish etc including labour for loading and unloading. Beyond initial lead. Truck load upto 5 KM	Cum	7852.00			
7	Collection of good laterite moorum and stacking at road side with regular box heaps of size (1.5x1.5x.5)Mtr to be measured as 1cum etc complete.	Cum	2482.00			

SI No	Description of Item	Unit	Qty	Rate	Amount	Reference
8	Conveying from stacks and laying moorum in sub-base and road side berms in layers not exceeding 0.225 mtr well watering and compacting to required density in OMC including hire charges and running charges of PRR etc complete.	Cum	2482.00			
9	Collecting IRC Gr II metal 40mm to 60mm size and stacking at road side with regular box heaps box of (1.5x1.5x.5) mtr	Cum	1780.00			
10	Conveying from stacks and spreading Grade II metal uniform thickness of 120mm and hand packing to proper camber and conveying from stacks and spreading moorum and watering, turfedging etc and consolidation with PRR including hire and running charges of PRR etc complete.	Cum	1780.00			
11	Collecting IRC Gr III metal 25mm to 50mm size and stacking at road side with regular box heaps box of (1.5x1.5x.5) mtr to be measured as one Cum	Cum	1780.00			
12	Conveying from stacks and spreading Grade III metal uniform thickness of 120mm and hand packing to proper camber and conveying from stacks and spreading moorum and watering, turfedging etc and consolidation with PRR including hire and running charges of PRR etc complete.	Cum	1780.00			
13	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:4:8 (1 Cement : 4 sand:8 Coarse Aggregate 40mm Down)	Cum	110.00			
14	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:1½:3 (1 Cement : 1½ sand:3 Coarse Aggregate 20mm Down)	Cum	174.00			

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15	Demolishing R.B work manually/ by mechanical means including stacking of steel bars and disposal of unservicable materials within 50mtr lead as per direction of Engineer in Chage.	Cum	5.00			
16	Demolishing cement concrete manually/ by mechanical means including disposal of materials with in 50mtr lead as per direction of Engineer inCharge. Cement concrete 1:4:8 or leanear Mix	Cum	2.00			
17	Demolishing cement concrete manually/ by mechanical means including disposal of materials with in 50mtr lead as per direction of Engineer inCharge. Cement concrete 1:3:6 or richer Mix	Cum	2.00			
18	Centering and shuttering including struting propping etc and removal of form work for: Foundations footing bases of column etc for mass concrete	Sq.M	150.00			
19	Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:1½:3 (1 Cement : 1½ sand:3 Coarse Aggregate 20mm Down)	Cum	5.00			
20	Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:6 (1cement: 6 Sand)	Cum	20.00			
21	15mm cement plaster of mix 1:6 (1 cement: 6 Sand)over rough side of half brickwork	Sq.M	150.00			
22	20mm cement plaster of mix 1:6 (1 cement: 6 Sand)	Sq.M	200.00			
23	Neat cement Punning	Sq.M	150.00			

SI No	Description of Item	Unit	Qty	Rate	Amount	Reference
24	25 mm thick SDBC with big hotmix plant and paver, scrapping, cleaning the road surface, removing the dust and foreign materials, applying bituminous tack coat with mechanical sprayer @ 5.0 kg bitumen per 10 sqm BT area after heating in tar boiler and then providing average 25mm thick semidense bitumenous concrete using 13.2mm CB chips @ 0.10cbm, 11.2mm CB chips @0.16 cbm,5.6mm and below size chips @ 0.11 cbm and bitumen @ 31.00kg for premixing per 10 sqm of road surface as per MOST specification of work & materials of approved quality feeding the aggregate inyo big hot mix plant of minimum 30 to 45 TPH capacity having separate heating & mixing arrangement heating aggregate & bitumen and mixing at controlled temprature. conveying the homogenous form the hot mix plant to work site by tipper vehicles without delay & spreading the asme on prepared bituminous surface of road by means of a self propelled mechanical paver finisher having hydrostatic chips,bitumen, labour ,hire charges and running charges of all machineries, required cost of carrage, sales tax etc complete as per the direction of Engineer in charge.	SqM	21500.00			
25	Providing & applying premixed seal coat type-B, comprising of thin application of fine aggregate of size 2.36mm & down @0.06 cbm and bitumen binder @6.8 kg per 10 sqm of road surface in mini hot mix plant, carriage manually of mixed material and laying and rolling with power roller 8-10 tonne complete as per direction of Engineer in charge.	sqm	21500.00			
26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20Cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50M and lift upto 1.5M	Cum	4155.00			

SI No	Description of Item	Unit	Qty	Rate	Amount	Reference
27	Providing and laying Dense bituminous concrete on prepared surface with specified grade ed stone aggregate for wearing course including loading of aggregate with FE loader, hot mixing of bitumen with filler and stone stone aggregate in hot mix plant, transporting the mixed materials by tippers to th pavers and lying the mixed materials with mechanical paver finisher fitted with electronic sensing device to the required level and grade and rolling with road rollers as per MORTH specification to achive the desired density and compaction but excluding cost of primer/tack coat 40/50mm compacted thickness with bitumen grade 60/70 @5.5% and lime @3% (percentage by weight of total mix)	Cum	10.00	9722.04	97220.40	NIT SCHEDULE Item No- 389 Point No-16.56
28	Supply & Laying (to level & slope) and joining with cement mortar (1:2) of Concrete NP3 Pipe Class NP3 reinforced & heavy duty non pressure pipe as per as specification. (a) 1200 dia hume pipe	Rmt	7.50			
	(b) 900 dia hume pipe	Rmt	15.00			
	(c) 600 dia hume pipe	Rmt	7.50			