

SCHEDULE

NAME OF WORK: CONSTRUCTION OF NEW ROADS IN NIT, ROURKELA (PHASE-II)

SL NO	ITEM & DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means over areas (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed (All kinds of Soil)	Cum	40915.00	114.68	4692132.20
2	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	50.00	50.77	2538.50
3	Supplying and filling in plinth with river sand under floors including watering ramming consolidating and dressing complete.	Cum	10.00	273.14	2731.40
4	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	10.00	4506.55	45065.50
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 20mm Down)	Cum	10.00	4065.29	40652.90
6	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	10.00	3077.31	30773.10
7	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	4622.35	23111.75
8	Centering and shuttering including strutting propping etc and removal of forms for: Foundations footing bases of column etc for mass concrete	Sqm	20.00	110.23	2204.60
9	Providing and placing reinforcement for R.C.C. work including straightening cutting bending placing in position and binding all complete.				

	Thermo Mechanically Treated Bars	kg	500.00	64.01	32005.00
10	Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:6 (1cement: 6 Sand)	Cum	30.00	2963.50	88905.00
11	Brick work with F.P.S bricks of class designation 75 in Super structure above plinth levell upto V floor level in all shapes and size in Cement mortar 1:6 (1cement: 6 sand)	Cum	15.00	3318.10	49771.50
12	15mm cement plaster of mix 1:6 (1 cement: 6 Sand)over rough side of half brickwork	Sqm	50.00	84.69	4234.50
13	20mm cement plaster of mix 1:6 (1 cement: 6 Sand)	Sqm	50.00	102.34	5117.00
14	Neat cement Punning	Sqm	50.00	25.04	1252.00
15	Demolishing Bitumenous road manually/ by mechanical means including disposal of materials with in 50mtr lead as per direction of Engineer inCharge.	Cum	200.00	249.75	49950.00
16	Demolishing brickwork manually/ by mechanical means including stacking of servicable materials and disposal of unservicable materials with in 50mtr lead as per direction of Engineer in Charge	Cum	5.00	342.07	1710.35
17	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	Sqm	27275.00	38.45	1048723.75
18	Providing and laying non pressure NP2 class (light duty) R.C.C pipes with collars jointed with Stiff mixture of cement mortar in proportion of 1:2 (1 cement: 2 sand) including testing of joints etc complete				
(a)	450mm dia R.C.C pipe	Rm	50.00	1067.95	53397.50
(b)	600mm dia R.C.C pipe	Rm	60.00	1483.41	89004.60
©	1000 mm dia R.C.C pipe	Rm	40.00	3036.04	121441.60

19	Dry stone pitching on the sides of bank, roads for retaining of earth of minimum thickness of 300mm (Not Exceeding 30Cm in depth 1.5m in width but exceeding 10 Sq.M on Plan) on a bed of sand including filling joints with river sand complete as per direction of Engineer in charge including earth work sand all complete (work including all labour and materials). (measurement done on Sq.M)	Sqm	1200.00	364.71	437652.00
20	Grass turving with doob or other type of grass on sloping portion of roads, embankment, channel etc including watering and maintenance of the turving for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (cost of the good earth and other material such as sludge and dump manure and cost of labour included) including mixing and spreading of all materials at site.	Sqm	800.00	30.84	24672.00
21	Providing and laying for admixing sand and moorum and laying sub-base in shoulder in layers not exceeding 22.5cm watering and compacting to the required density in O.M.C. with PRR including cost and conveyance of sub base materials and cost of all labours and hire charges of T & P required for work including cost,conveyance of all materials,taxes,cess,royalties,cost of all labour with T&P etc complete as per specification and direction of Engineer-in-charge.	Cum	8200.00	383.06	3141092.00
22	Earth work in rough(field)excavation banking excavated earth including transportation & laying in layers not exceeding 20cm in depth,breaking clods,watering,rolling each layer with 1/2 tonne roller or wooden or steel rammer & rolling every third & top most layer with power roller of minimum 8tonne for opting optimum moisture content and maximum density & dressing of embankments for road embankment,flood banks,marginal banks & guide banks or filling of ground depressions lead up to 1km & lift upto 1.5m complete as per direction of engineer in charge(measurement only will be done in cum of compacted soil at site)	Cum	10500.00	239.14	2510970.00

23	Stone pitching on the side of bank,road for retaining of earth of minimum thickness of 300mm(not exceeding 30cm in depth 1.5m in width but exceeding 10sqm on plan)on a bed of cement mortar 1:4 including feeling joints with cement mortar 1:4 (1 cement & 4 sand)complete as per direction of engineer in charge including earthwork,cement mortar & sand all complete (work including all labour & materials.)measurement will be done on sqm basis.	Sqm	1200.00	502.89	603468.00
24	Providing,laying,spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site,laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	Cum	6150.00	1778.57	10938205.50
25	Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.	Cum	1370.00	7891.00	10810670.00
26	Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects.	Cum	690.00	8196.00	5655240.00
			TOTAL =		40506692.25
			SAY Rs. 40506700.00		

