

## CHAPTER NO. 2

### HIRE CHARGES OF MACHINERY

**Notes :-**

- (i) The rates include all operational and maintenance charges such as cost of fuels, lubricants, stores, establishment, depreciation and interest charges. In case the machinery is provided by the department, the working cost as mentioned below shall be recovered from the contractor.
- (ii) These rates are for estimation purposes and not for hiring of private machinery from the market for which competitive tenders/quotations shall be called and approval of the appropriate competent authority shall be obtained.
- (iii) These rates are based on wholesale price index (WPI) relating to commodity of Heavy Machinery & Parts published by Govt. of India. These rates have been calculated with the base value of 235.70 as on March, 2010.
- (iv) The outputs mentioned for the construction equipments are for the compacted quantities of the relevant items and not for loose quantities.

Sr. No.	Description	Activity	Output /Capacity	Unit	Rate (in Rs.)
1	2	3	4	5	6
2.1	Air Compressor	General	170/250 cfm	hour	309.00
2.2	Air compressor with pneumatic chisel attachment	Dismantling of Concrete	- -	hour	655.00
2.3	Batching and Mixing Plant 30 cum capacity	Concrete Mixing	20 cum/hour	hour	2160.00
2.4	Batching and Mixing Plant 15 - 20 cum capacity	Concrete Mixing	13 cum/hour	hour	1800.00
2.5	Bitumen Pressure Distributor	Bitumen Spraying	Prime Coat and Tack Coat = 1750 sqm/ hour Surface Dressing and Seal Coat Type A = 400 sqm/ hour	hour	1038.00
2.6	Bitumen Boiler oil fired	Bitumen Heating	1500 litre capacity	hour	192.00
2.7	Concrete Paver Finisher with 40 HP Motor	Concrete Paving	20 cum / hour	hour	2775.00
2.8	Concrete Pump of 45 & 30 cum capacity	Concrete Pumping	33 / 22 cum / hour	hour	247.50
2.9	Concrete Bucket	Concrete Pouring	- cum	hour	15.00
2.10	Concrete Mixer 0.4/0.28 cum	Concrete Mixing	2.5 cum/hour	hour	225.00

Sr. No.	Description	Activity	Output /Capacity	Unit	Rate (in Rs.)
1	2	3	4	5	6
2.11	Concrete Mixer 1 cum	Concrete Mixing	7.5 cum/hour	hour	225.00
2.12	Crane 80 tonnes	Lifting Purpose	80 tonnes capacity	hour	1237.50
2.13	Cranes 35 tonnes	Lifting Purpose	35 tonnes capacity	hour	825.00
2.14	Cranes 3 tonnes	Lifting Purpose	3 tonnes capacity	hour	345.00
2.15	Crane with grab bucket 0.75 cum capacity	Well Sinking	0.75 cum capacity	hour	950.00
2.16	Dozer D - 80 - A 12	Spreading /Cutting / Clearing	300/ 150/250 cum/hour	hour	3600.00
2.17	Dozer D - 50 - A 15	Spreading /Cutting / Clearing	200/ 120/150 cum/hour	hour	2134.50
2.18	Emulsion Pressure Distributor	Bitumen Spraying	1750 sqm/hour	hour	774.00
2.19	Front End loader 1 cum bucket capacity	Soil loading / Aggregate loading	60 /25 cum/hour	hour	780.00
2.20	Generator 250 KVA	Generation of electric Energy	200 KVA	hour	1687.50
2.21	Generator 125 KVA	Generation of electric Energy	100 KVA	hour	843.75
2.22	Generator 100 KVA	Generation of electric Energy	80 KVA	hour	675.00
2.23	Generator 63 KVA	Generation of electric Energy	50 KVA	hour	517.50
2.24	Generator 33 KVA	Generation of electric Energy	25 KVA	hour	360.00
2.25	GSB Plant 50 cum	Producing GSB	40 cum/hour	hour	1005.00
2.26	Grouting Pump with Agitator	Grouting	- -	hour	104.00

Sr. No.	Description	Activity	Output /Capacity	Unit	Rate (in Rs.)
1	2	3	4	5	6
2.27	Hotmix Plant - 120 TPH capacity	DBM/BM/SDBC/ Premix	40 cum/hour	hour	22650.00
2.28	Hotmix Plant - 100 TPH capacity	DBM/BM/SDBC/ Premix	30 cum/hour	hour	16750.50
2.29	Hotmix Plant - 60 to 90 TPH capacity	DBM/BM/SDBC/ Premix	25 cum/hour	hour	13395.00
2.30	Hotmix Plant - 40 to 60 TPH capacity	DBM/BM/SDBC/ Premix	17 cum/hour	hour	10725.00
2.31	Hydraulic Chip Spreader	Chip Spreading	1500 sqm/hour	hour	2550.00
2.32	Hydraulic Excavator of 1 cum bucket	Excavation	60 cum/hour	hour	1260.00
2.33	Integrated Stone Crusher 100TPH	Crushing of Spalls	100 TPH	hour	8385.00
2.34	Integrated Stone Crusher 200 TPH	Crushing of Spalls	200 TPH	hour	17640.00
2.35	Kerb Casting Machine	Kerb Making	80 m/hour	hour	300.00
2.36	Mastic Cooker	Preparation of Mastic Asphalt	1 tonnes capacity	hour	60.00
2.37	Mechanical Broom Hydraulic	Surface Cleaning	1250 sqm/hour	hour	345.00
2.38	Motor Grader 3.35 mtr blade	Clearing /Spreading /GSB /WBM	200/200/50/50 cum/hour	hour	2317.50
2.39	Mobile slurry seal equipment	Mixing and laying slurry seal	2700 sqm/hour	hour	975.00
2.40	Needle Vibrator	Compaction of Concrete	8 cum/hour	hour	45.00
2.41	Paver Finisher Hydrostatic with sensor control 100 TPH	Paving of DBM/ BM/SDBC/ Premix	25 cum/hour	hour	2587.50
2.42	Paver Finisher Mechanical 100 TPH	Paving of WMM /Paving of DLC	34/34 cum/hour	hour	943.50

Sr. No.	Description	Activity	Output /Capacity	Unit	Rate (in Rs.)
1	2	3	4	5	6
2.43	Piling Rig with Bantonite Pump	Piling Work	2 to 3 m/hour	hour	5287.50
2.44	Pneumatic Road Roller	Rolling of Asphalt Surface	25 cum/hour	hour	1203.00
2.45	Pneumatic Sinking Plant	Pneumatic Sinking of wells	1.5 to 2.00 cum/hour	hour	4035.00
2.46	Pot Hole Repair Machine	Repair of potholes	4 cum/hour	hour	877.50
2.47	Prestressing Jack with Pump	Stressing of steel wires/stands	- -	hour	124.50
2.48	Plate compactor	Compaction of Earth	20 cum/hour	hour	90.00
2.49	Plate Vibrator	Compaction of Concrete	8 cum/hour	hour	45.00
2.50	Ripper	Scarifying	60 cum/hour	hour	27.00
2.51	Rotavator	Mixing	25 cum/hour	hour	16.50
2.52	Road marking machine	Road marking	18.75 Sqm/hour	hour	90.00
2.53	Smooth Wheeled Roller 8 tonne	Soil Compaction /BM Compaction/WBM Compaction	70/12/8 to 10 cum/hour	hour	300.00
2.54	Screed Vibrator	Compaction of Concrete	8 cum/hour	hour	45.00
2.55	Tandem Road Roller	Rolling of Asphalt Surface	25 cum/hour	hour	1107.00
2.56	Tipper - 5 cum	Transportation of soil, GSB, WMM, Hotmix etc.	5.5 cum capacity	hour	300.00
2.57	Transit Mixer 4.0/4.5 cum	Transportation of Concrete Mix to site	4.5 cum/hour	hour	900.00

Sr. No.	Description	Activity	Output /Capacity	Unit	Rate (in Rs.)
1	2	3	4	5	6
2.58	Transit Mixer 3.0 cum	Transportation of Concrete Mix to site	3 cum/hour	hour	825.00
2.59	Tractor with or without trolley	Pulling or transportation	- -	hour	250.00
2.60	Tractor with Rotavator	Mixing	25 cum/hour	hour	250.00
2.61	Tractor with Ripper	Scarifying	60 cum/hour	hour	250.00
2.62	Truck 5.5 cum or 10 tonnes	Material Transport	5.5 cum capacity	km	21.75
2.63	Truck 5.5 cum or 10 tonnes	Material Transport	5.5 cum capacity	hour	279.00
2.64	Truck Trailer 30 tonne capacity	Transportation	30 tonnes capacity	hour	750.00
2.65	Vibratory Roller 8 tonne	Earth or soil / GSB/ WBM/BM	100/60/60/25 cum/hour	hour	1100.00
2.66	Vaccum Pump with mat & Power Floater	Finishing of Concrete Pavements	6.25 sqm/hour	hour	403.50
2.67	Water Tanker for General Work	Water Transport	6 kl capacity	hour	140.40
2.68	Water Tanker for Road Work	Water Transport	6 kl capacity	hour	250.00
2.69	Wet Mix Plant 100 TPH	Mixing of Wet Mix Macadam	40 cum/hour	hour	1942.50
2.70	Wet Mix Plant 60 TPH	Mixing of Wet Mix Macadam	25 cum/hour	hour	1165.50
2.71	Dragline				
(a)	1 Cu yd Capacity	Excavation of earth work (Undressed)	i) 68 cum/hour (dry) ii) 57 cum/hour (wet)	hour	2812.00
(b)	0.75 Cu yd Capacity	Excavation of earth work (Undressed)	i) 37 cum/hour (dry) ii) 31 cum/hour (wet)	hour	21.84