

PART - I**MACHINERY USE RATES FOR THE YEAR 2010-2011 (1-04-2010 to 31-03-2011)**

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

1 MOTORISED SCRAPERS

1.1	TEREX TS-24 Capacity : 18.4/24.5 cum (24/32 cu.yds.)	140.00	2205.00	3431.00	5776.00
1.2	BHARAT 229-F Hydraulic Capacity : 11.5/16.006 cum (15/21 cu.yds.)	70.00	1101.00	2276.00	3447.00
1.3	Caterpillar 619 C Capacity : 10.7/13.7 cum	4.00	627.00	1889.00	2520.00
1.4	Caterpillar 627 B Capacity : 10.7/13.7 cum (14/18 cu.yds.)	190.00	1369.00	2945.00	4504.00
1.5	Euclid B-6 FDT Capacity : 9.5/12.2 cum (12/16 cu.yds.)	4.00	820.00	1720.00	2544.00
1.6	John Deer J D 762 B Capacity : 8.4 cum (11 cu.yds.)	127.00	944.00	1601.00	2672.00
1.7	TEREX TS-14 B Capacity : 10.7/15.3 cum (14/20 cu.yds.)	120.00	817.00	2131.00	3068.00

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

2 EXCAVATOR

2.1	Poclain CK-300 Capacity : Loader : 3.23 cum. (4.25 cu.yds.) Back hoe : 2 cum. (2.6 cu.yds.)	188.00	980.00	2096.00	3264.00
2.2	Demag H 51 Capacity : Loader : 3.23 cum. (4.25 cu.yds.) Back hoe : 2 cum. (2.6 cu.yds.)	184.00	1168.00	2096.00	3448.00
2.3	Poclain HC - 300 Capacity : Loader : 3.23 cum. (4.25 cu.yds.) Back hoe : 2 cum. (2.6 cu.yds.)	79.00	1318.00	2089.00	3486.00
2.4	Hind Marin 101 M Capacity : 2.3 cum (3 cu.yds.)	56.00	540.00	1705.00	2301.00
2.5	P and H 655 - B Capacity : 1.15 cum (1.5 cu.yds.)	17.00	205.00	959.00	1181.00
2.6	Poclain CK-90 Capacity : 0.95 cum (1.24 cu.yds.)	67.00	590.00	1380.00	2037.00
2.7	Atlas E 1602 (Back-hoe) Capacity : 0.6 cum (0.78 cu.yds.)	65.00	373.00	779.00	1217.00
2.8	Poclain LC - 80 Capacity : 0.9 cum (1.14 cu.yds.)	67.00	590.00	1380.00	2037.00

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

2.9 Tata Hitachi Ex-100
(Back-hoe attachment) **219.00 219.00 809.00 1247.00**

2.10 JD 550 B Backhoe (Converted) **92.00 185.00 793.00 1070.00**

2.11 JD Wheel Tractor with Backhoe (2130) **70.00 156.00 488.00 714.00**

2.12 JD 550 B (Original) **92.00 194.00 812.00 1098.00**

2.13 Terex 72-21 (Backhoe Attachment) **100.00 254.00 916.00 1270.00**

2.14 JCB JS-80 **119.00 54.00 650.00 823.00**

2.15 TATA Hitachi EX-200 **193.00 85.00 961.00 1239.00**

2.16 TATA Hitachi EX-70 **111.00 49.00 605.00 765.00**

2.17 JCB JS-140 **172.00 76.00 904.00 1152.00**

2.18 TATA EX-350 **338.00 224.00 1729.00 2291.00**

2.19 L & T Hyd. Excavator CK-72 **168.00 74.00 915.00 1157.00**

3 WHEELED LOADER

3.1 BEML 3035 **116.00 758.00 2026.00 2900.00**
Capacity : 3.8 cum (4.97 cu.yds.)

3.2 Fiat Allis 745 C **47.00 895.00 1942.00 2884.00**
Capacity : 3.5 cum (4.5 cu.yds.)

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

3.3 Caterpillar 966 D **80.00 544.00 1544.00 2168.00**
Capacity : 3 cum (3.9 cu.yds.)

3.4 Terex 72-51 **24.00 771.00 1680.00 2475.00**
Capacity : 2.68 cum (3.5 cu.yds.)

3.5 Terex 72-21 **45.00 566.00 1378.00 1989.00**
Capacity : 1.53 cum (2 cu.yds.)

3.6 Caterpillar 930 **35.00 577.00 1526.00 2138.00**
Capacity : 1.29 cum (1.69 cu.yds.)

3.7 Escort JCB- 3C **40.00 144.00 932.00 1116.00**
Capacity : 1.2 cum (1.57 cu.yds.)

3.8 Marshall AR- 61 **45.00 184.00 778.00 1007.00**
Capacity : 1.2 cum (1.57 cu.yds.)

3.9 Tata Wheel Loader - 3036 **143.00 133.00 1256.00 1532.00**
Capacity : 1.8 cum (2.3 cu.yds.)

4 CRAWLER LOADER

4.1 Caterpillar 977-L **35.00 473.00 1558.00 2066.00**
Capacity : 2.1 cum (2.75 cu.yds.)

4.2 Komatsu D-60-S-3 **14.00 538.00 1482.00 2034.00**
Capacity : 1.68 cum (2.2 cu.yds.)

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

5 CRAWLER TRACTOR

5.1	Komatsu D-355 A (with or with out dozer blade or ripper)	78.00	1047.00	2852.00	3977.00
5.2	Komatsu D-355 A-3 (with or with out dozer blade or ripper)	138.00	1285.00	2836.00	4259.00
5.3	BEML D-355-A-3 (with or with out dozer blade or ripper)	138.00	1285.00	2836.00	4259.00
5.4	Caterpillar D-9-H (with or with out dozer blade or ripper)	159.00	1377.00	2628.00	4164.00
5.5	Caterpillar D-9-G (with or with out dozer blade or ripper)	62.00	979.00	2733.00	3774.00
5.6	BEML D-155 A-1 (with or with out dozer blade or ripper)	144.00	1025.00	2496.00	3665.00
5.7	Caterpillar D-8-K (with or with out dozer blade or ripper)	112.00	1274.00	2367.00	3753.00
5.8	Terex 82-40 DA (with or with out dozer blade or ripper)	186.00	832.00	2109.00	3127.00
5.9	Terex 82-40 DC (with or with out dozer blade or ripper)	186.00	832.00	2109.00	3127.00

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

5.10	Caterpillar D-8-H-68 A & 22 A (with or with out dozer blade or ripper)	13.00	1450.00	2078.00	3541.00
5.11	Bharat D-120 A-18	69.00	454.00	1979.00	2502.00
5.12	Caterpillar D-8-46-A	14.00	237.00	1750.00	2001.00
5.13	Caterpillar D-7-G	89.00	811.00	1559.00	2459.00
5.14	Bharat D-80 A-12	67.00	399.00	1651.00	2117.00
5.15	Caterpillar D-7-47-A	14.00	255.00	1479.00	1748.00
5.16	Komatsu D-60 -A	16.00	98.00	1181.00	1295.00
5.17	Caterpillar D-4-D	9.00	246.00	857.00	1112.00
5.18	Caterpillar D-4-E	35.00	246.00	761.00	1042.00
5.19	John Deer JD -550 B (with or without Dozer blade)	42.00	180.00	755.00	977.00
5.20	John Deer JD -550 (with or without Dozer blade)	35.00	180.00	755.00	970.00
5.21	Caterpillar D-3-B	18.00	239.00	759.00	1016.00

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

5.22 Caterpillar D-3 (79 U) **18.00** **239.00** **763.00** **1020.00**

5.23 Shantui Dozer SD-13 **337.00** **357.00** **1012.00** **1706.00**

5.24 Shantui Dozer - 16 **471.00** **498.00** **1152.00** **2121.00**

6 DUMPER

6.1 Wabco Haulpack-35 **77.00** **824.00** **1838.00** **2739.00**
Capacity : 18.12/20.94 cum.

6.2 Belaz 540 **36.00** **695.00** **2023.00** **2754.00**
Capacity : 15/19 cum.

6.3 Bharat Haulpack-35 **77.00** **824.00** **1877.00** **2778.00**
Capacity : 18.20/20.94 cum.

6.4 BEML Haulpack-35 **77.00** **824.00** **1877.00** **2778.00**
Capacity : 18.12/20.94 cum.

6.5 Terex R -35- B **126.00** **733.00** **1865.00** **2724.00**
Capacity : 17.8/20.6 cum.

6.6 Terex R-35-B-1 **126.00** **733.00** **1865.00** **2724.00**
Capacity : 17.8/20.6 cum.

6.7 Bharat 25 Haulpack **63.00** **730.00** **1815.00** **2608.00**
Capacity : 11.5/15.3 cum.

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

6.8 Terex-R-25-H-4 TD **75.00 775.00 1571.00 2421.00**
Capacity : 12.3/15 cum.

6.9 Wabco 'C'Tournapull with rear dumper **35.00 575.00 1624.00 2234.00**
Capacity : 11.23/16.8 cum.

6.10 Aveling Jessop SL-340 **45.00 318.00 977.00 1340.00**
Capacity : 7.6/9.5 cum.

6.11 Ashok Leyland Hippo ALH 1 / 5 **50.00 450.00 1118.00 1618.00**
Capacity : 9/10.7 cum.

6.12 Ashok Leyland Jumbo **19.00 349.00 934.00 1302.00**
Capacity : 7.84/9.16 cum. (10/12 cu.yds.)

6.13 Ashok Leyland Beaver **12.00 245.00 957.00 1214.00**
Capacity : 6.1 cum. (8 cu.yds.)

6.14 Tata 1516 Scoop Type **33.00 196.00 816.00 1045.00**
Capacity : 6 cum. (7.8 cu.yds.)

7 MOTOR GRADER

7.1 Komatsu GD-605A-3 **87.00 289.00 934.00 1310.00**

7.2 BEML GD 605 R-1 **135.00 265.00 928.00 1328.00**

7.3 Wabco 440- H **22.00 394.00 965.00 1381.00**

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

7.4 Komatsu GD-37-3 **7.00 180.00 852.00 1039.00**

8 VIBRATORY COMPACTOR

8.1 Dynapack CA 51-P **125.00 672.00 1221.00 2018.00**

8.2 Aveling Barford **16.00 403.00 788.00 1207.00**

8.3 L&T Sismopactor TT 900 **107.00 321.00 839.00 1267.00**

8.4 Sismopactor 850-S **55.00 704.00 866.00 1625.00**

8.5 Bomag Vibratory Slope Compactor BW to SH **26.00 88.00 268.00 382.00**

8.6 Maximix Vib. Roller DVR-75 **14.00 50.00 274.00 338.00**

8.7 Maximix Vib. Roller VR-60 **4.00 14.00 155.00 173.00**

8.8 Maximix Vibratory Road Roller **17.00 63.00 295.00 375.00**

9 DIESEL ROAD ROLLER

9.1 D R R - 8 / 10 Ton **14.00 80.00 372.00 466.00**

9.2 D R R - 4 / 5 Ton **8.00 25.00 191.00 224.00**

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

10 TIPPER

Note :- Assumption for fixing hourly use rates for 7.5 Tones capacity tippers

Plant hourly rate X 8 Hrs. = K M rate X 96 KM.

Assuming average running of 12 Km / Hr for a Tipper working on project under a loader with average lead of 1.5 Km. one way (4 Trips/Hr.) and 18 Km./Hr. for P.W.D. and long distance running

10.1	5 Ton Cap. (per KM)	1.00	7.00	40.10	48.10
10.2	7.5 Ton Tata Tipper (old)				
	(1) For Running Over 96 KM	1.00/Km.	9.50/Km.	41.1/Km.	51.6/Km.
	(2) For Running Up To 96 KM	12.00/Hr.	114/Hr.	493.20/Hr.	619.20/Hr.
10.3	7.5 Ton A.Layland (old)				
	(1) For Running Over 96 KM	1.00/Km.	9.50/Km.	41.1/Km.	51.6/Km.
	(2) For Running Up To 96 KM	12.00/Hr.	114/Hr.	493.20/Hr.	619.20/Hr.
10.4	7.5 T Tata (96-97)				
	(1) For Running Over 96 KM	2.40/Km.	3.90/Km.	41.80/Km.	48.10/Km.
	(2) For Running Up To 96 KM	28.80/Hr.	46.80/Hr.	501.60/Hr.	577.20/Hr.
10.5	7.5 T A.L. (96-97)				
	(1) For Running Over 96 KM	2.50/Km.	3.90/Km.	40.80/Km.	47.20/Km.
	(2) For Running Up To 96 KM	30.00/Hr.	46.80/Hr.	489.60/Hr.	566.40/Hr.
10.6	TATA - SK 1613 (10 Ton) SCOOP TYPE	4/Km.	4/Km.	48.75/Km.	56.75/Km.
10.7	1112 ECOMAT	3.40/Km.	3.00/Km.	53.03/Km.	59.43/Km.

11 TRUCK

11.1	5 Ton Cap. (per KM)	1.00	6.50	32.30	39.80
------	---------------------	-------------	-------------	--------------	--------------

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

11.2 5 Ton Water Tanker **7.00 63.00 387.20 457.20**

11.3 5 Ton School Bus (per KM) **1.00 8.40 36.80 46.20**

11.4 7.5 Ton (per KM) **1.00 8.20 38.40 47.60**

11.5 7.5 Ton Water Tanker **10.00 79.00 381.20 470.20**

11.6 7.5 Ton School Bus (Per KM) **1.00 9.30 38.40 48.70**

11.7 3.5 Ton DCM Toyota (per KM) **1.00 2.40 18.60 22.00**

12 TRANSPORTER

12.1 Foden **73.00 257.00 1168.00 1498.00**

12.2 Scamell **38.00 197.00 1031.00 1266.00**

12.3 ERF **18.00 198.00 1031.00 1247.00**

12.4 Mack, Euclid, A.L.Beaver **10.00 203.00 1025.00 1238.00**

12.5 A.L.Semigama (per KM) **1.00 9.50 47.00 57.50**

13 PNEUMATIC WHEELED TRACTOR

13.1 John Deer 2130 with plouge,
and Front end dozer blade **7.00 85.00 373.00 465.00**

13.2 IH Super BMD, Fordson, Ferguson **6.00 59.00 266.00 331.00**

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

13.3 Escort Tugger **4.00 60.00 311.00 375.00**

13.4 Kirloskar D 600 CK **18.00 53.00 359.00 430.00**

13.5 HMT Zetor **6.00 54.00 310.00 370.00**

14 TRAILER

14.1 Rubber Tyred 15 - 20 T **1.00 28.00 33.00 62.00**

14.2 Rubber Tyred 10 - 15 T **1.00 13.00 29.00 43.00**

14.3 Rubber Tyred 5 - 10 T **1.00 11.00 23.00 35.00**

14.4 Rubber Tyred 0 - 5 T **1.00 11.00 23.00 35.00**

15 CRANE

15.1 Voltas Omega-35 (Cap 30 T) **190.00 325.00 1174.00 1689.00**

15.2 Coles Endurance 30T **131.00 387.00 1173.00 1691.00**

15.3 Coles Hydra 850 M - 30T **436.00 516.00 1051.00 2003.00**

15.4 Coles Hydra 830- 30T **165.00 387.00 1091.00 1643.00**

15.5 Marshall Demag 30T **182.00 320.00 1171.00 1673.00**

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.
15.6	Coles 1510 (S) 15.85 T	31.00	204.00	578.00	813.00
15.7	Hy.Operated Truck Mounted Mobile - 15 T	352.00	263.00	651.00	1266.00
15.8	Coles Truck Mounted ANEAS (12 T)	34.00	220.00	580.00	834.00
15.9	Ashok Leyland Hippo Chassis Mounted Coles Aneas Crane	18.00	91.00	724.00	833.00
15.10	Coles Mobile Aneas (12.5 T)	13.00	205.00	573.00	791.00
15.11	Escort MOC -8E (Cap 8 T)	18.00	68.00	405.00	491.00
15.12	Escort Mobile (8 T)	58.00	97.00	405.00	560.00
15.13	Coles Mobile (6 T)	11.00	80.00	392.00	483.00
15.14	Escort MOC Mobile (5 T)	22.00	55.00	387.00	464.00
15.15	Escort MOC - 3E Mobile (3 T)	10.00	60.00	362.00	432.00
15.16	Peine Tower (3T)	12.00	136.00	408.00	556.00
15.17	I.H. 3 T International Harvester Mobile	4.00	38.00	399.00	441.00
15.18	J.D. Wheel tractor Crane (Converted)	52.00	110.00	377.00	539.00
15.19	Forklift (2.5 T)	6.00	24.00	235.00	265.00

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

15.20 Polimax Tower (2.25 T) **9.00 90.00 395.00 494.00**

15.21 Usha Atlas DC-6 **18.00 58.00 366.00 442.00**
Truck Mounted Lorry Loader (Cap. 0.9 to 2 T)

15.22 Swedish Linden Alimak (1.5 T) **10.00 103.00 320.00 433.00**

15.23 Mono Tower (8 T) **51.00 159.00 794.00 1004.00**

15.24 Marine Crane **7.00 132.00 504.00 643.00**

16 AIR COMPRESSOR

16.1 510 Cfm. Elect. **4.00 84.00 465.00 553.00**

16.2 500 / 510 Cfm Diesel **10.00 89.00 740.00 839.00**

16.3 400 Cfm **10.00 89.00 740.00 839.00**

16.4 365 Cfm **9.00 71.00 747.00 827.00**

16.5 315 Cfm **4.00 34.00 579.00 617.00**

16.6 260 / 250 Cfm **6.00 42.00 527.00 575.00**

16.7 280 cfm **6.00 42.00 527.00 575.00**

16.8 225 Cfm **4.00 41.00 525.00 570.00**

16.9 210 Cfm **4.00 41.00 525.00 570.00**

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

16.10	175 Cfm	3.00	31.00	374.00	408.00
16.11	160 Cfm	3.00	31.00	374.00	408.00
16.12	105 Cfm	3.00	17.00	302.00	322.00

Note :- If the purchase cost of the Machine is more than indicated, the owner should work out the depreciation as per following formula,

$$\text{Depreciation} = \frac{\text{Purchase Cost} - 15\% \text{ Salvage Value}}{\text{Life in Hrs.}}$$

Life may be assumed as below :

For Item Nos. 16.1 to 16.5 = 12000 Hrs.

For Item Nos. 16.6 to 16.12 = 10000 Hrs.

17 PNEUMATIC TOOLS

17.1	Jack Hammer Without Operator	1.00	17.5	3.00	21.5
------	------------------------------	-------------	-------------	-------------	-------------

- Note :
1. The hours of the pneumatic tools would be the same as those of Air Compressor.
 2. Transport and shifting charges for all equipments will be charged extra at actuals.
 3. Cost of Hoses, Drill rods and such other consumable items will be charged extra.
 4. In case of the above pneumatic tools which are not in Central Pool, no depreciation should be charged when the machiens are used by the Department.

18 GENERATING SET

18.1	200 KVA	7.00	84.00	1564.00	1655.00
18.2	125 to 135 KVA	5.00	70.00	815.00	890.00

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

18.3	100 KVA	4.00	53.00	728.00	785.00
18.4	80 KVA	3.00	33.00	606.00	642.00
18.5	61 to 70 KVA	2.00	35.00	558.00	595.00
18.6	41 to 60 KVA	2.00	29.00	510.00	541.00
18.7	31 to 40 KVA	2.00	36.00	400.00	438.00
18.8	21 to 30 KVA	2.00	28.00	295.00	325.00
18.9	10 to 20 KVA	1.00	25.00	229.00	255.00
18.10	6 to 7.5 KVA	1.00	15.00	179.00	195.00
18.11	5 KVA	1.00	12.00	127.00	140.00

Note :- If the purchase cost of the Machine is more than indicated, the owner should work out the depreciation as per following formula,

$$\text{Depreciation} = \frac{\text{Purchase Cost} - 15\% \text{ Salvage Value}}{\text{Life in Hrs.}}$$

Life may be assumed as below :

For Item Nos. 18.1 to 18.6	=	30000 Hrs.
For Item Nos. 18.7 to 18.10	=	20000 Hrs.
For Item Nos. 18.11	=	10000 Hrs.

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

19 PUMPING SET (DIESEL & ELECTRICAL)

19.1	75 HP	3.00	32.00	314.00	349.00
19.2	50 to 60 HP	2.00	31.00	306.00	339.00
19.3	30 to 40 HP	2.00	28.00	240.00	270.00
19.4	20 to 29 HP	1.00	22.00	201.00	224.00
19.5	10 to 19 HP	1.00	19.00	157.00	177.00
19.6	5 to 9 HP	1.00	12.00	124.00	137.00
19.7	3 HP	1.00	8.00	77.00	86.00
19.8	2 HP	1.00	8.00	68.00	77.00

Note : If the purchase cost of the Machine is more than indicated, the owner should work out the depreciation as per following formula,

$$\text{Depreciation} = \frac{\text{Purchase Cost} - 15\% \text{ Salvage Value}}{\text{Life in Hrs.}}$$

Life may be assumed as 10000 Hrs. for each item.

20 DIESEL WELDING PLANT

20.1	30 HP	3.00	20.00	215.00	238.00
------	-------	------	-------	--------	--------

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

21 CONCRETE MIXER & STONE CRUSHER & Other MISC ITEMS

21.1	Concrete Mixer 14/10 cft	6.00	16.00	190.00	212.00
21.2	Concrete Mixer 10/7 cft	3.00	16.00	151.00	170.00
21.3	Concrete Mixer 7/5 cft	1.00	7.00	132.00	140.00
21.4	Morter Mill	1.00	4.00	112.00	117.00
21.5	Major Stone Crusher 16 " x 10 "	9.00	82.00	415.00	506.00
21.6	Stone Crusher 16"x9",16"x5"	5.00	82.00	415.00	502.00
21.7	Mini Marshal Granulator 16" x 4"	8.00	68.00	317.00	393.00
21.8	Vibratory Roller 3 HP	1.00	5.00	100.00	106.00
21.9	Maximix Earth Rammer	1.00	5.00	100.00	106.00
21.10	Maximix Vib. Earth Rammer VR-1	2.00	9.00	108.00	119.00
21.11	Maximix Trench Rammer TR- 10	3.00	9.00	115.00	127.00
21.12	Gromaco Concrete Finisher	65.00	167.00	236.00	468.00
21.13	Gromaco Concrete Block Machine	9.00	16.00	103.00	128.00

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

21.14	Rod Mill 4" x 10"	34.00	182.00	583.00	799.00
21.15	Rod Mill 3" x 8"	20.00	106.00	380.00	506.00
21.16	Builder Hoist 2 T	8.00	60.00	223.00	291.00
21.17	Builder Hoist 1.25 T	7.00	57.00	222.00	286.00
21.18	Builder Hoist 1 T	3.00	32.00	161.00	196.00
21.19	Vibrator (Diesel)	1.00	7.00	101.00	109.00
21.20	Vibrator (Electrical)	1.00	7.00	95.00	103.00
21.21	Bhai RDHE Concrete Mixture 1000 Ltrs	88.00	110.00	422.00	620.00

Note :- If the purchase cost of the Machine is more than indicated, the owner should work out the depreciation as per following formula,

$$\text{Depreciation} = \frac{\text{Purchase Cost} - 15\% \text{ Salvage Value}}{\text{Life in Hrs.}}$$

Life may be assumed as below :

For Item Nos. 21.1 to 21.4	=	6000 Hrs.
For Item Nos. 21.5 to 21.7	=	10000 Hrs.
For Item Nos. 21.8	=	5000 Hrs.
For Item Nos. 21.9 & 21.10	=	8000 Hrs.
For Item Nos. 21.11 & 21.12	=	10000 Hrs.
For Item Nos. 21.13 to 21.15	=	20000 Hrs.
For Item Nos. 21.16 to 21.21	=	10000 Hrs.

Sr.No.	Name fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate
		per hour	per hour	per hour	per hour
		A	B	C	A+B+C
1	2	3	4	5	6
		Rs.	Rs.	Rs.	Rs.

22 BORING MACHINERY (RATE IN Rs/Meter)

22.1	Over Burden by Diamond Drilling Machine	10.00	66.00	633.00	709.00
22.2	Quartzite by Diamond Drilling Machine with NX BitCore size 54mm (2 ¹ / ₈ inch)	16.00	399.00	2979.00	3394.00
22.3	Quartzite by Diamond Drilling Machine with BX Bit Core size 41.3mm (1 ⁵ / ₈ inch)	10.00	300.00	2233.00	2543.00
22.4	Quartzite by Diamond Drilling Machine with AX Bit Core size 30.2mm (1 ³ / ₁₆ inch)	8.00	249.00	1861.00	2118.00
22.5	Other Rock with Diamond drill with NX Bit Machine (0 to 50 Meters) Core Size 54 mm (2 ¹ / ₈ inch)	15.00	212.00	1499.00	1726.00

Note : For Boring more than 50 meters below the ground level the charges will be at actuals.

22.6	Sample Cores 18"(45.7 cm), 24" (60.9 cm), 36" (91.4cm) Dia in masonry / Concrete upto 0.9 meter				
i	18"	0.00	1856.00	3415.00	5271.00
ii	24"	0.00	2783.00	5107.00	7890.00
iii	36"	0.00	3709.00	6794.00	10503.00

Note : The Charges of Air Compressor will be extra at the sanctioned rates. Cost of Diamond Bits, Drill Rods, Remaing Shell, Core Lifter, Core Barrel, Impregnated Diamond Bits, Air Houses, Water Swivel etc. will be extra at actuals.

GENERAL CONDITIONS FOR USE OF BORING MACHINERY

1. Percolation and permeability test charges are Rs. 150 per day plus Rs. 40.00 per pocket of 10 ft. and Rs. 20.00 per packet of 5 ft.
2. Soil sampling of 4" (100 m.m.) size will be Rs. 150.00 per sample excluding drill and material charges.
3. Above rates do not include labour required for loading, unloading, erection, shifting and operation of machine which will be provided by the user Division / project.
4. The transport charges of machine will be separate for each work.
5. The water supply charges will be extra at actual according to site conditions.
6. Boulders met in overburden will be charged at the rate of respective rock.
7. The casing pipe if required to be kept permanently in the bore will be charged extra at actual.
8. For re boring the charges will be at half rates.
9. The charges of watchman to be provided for the machines would be charged extra at actual.
10. Idle charges per day will be Rs. 200 for all days the machine is not used on the site for want of work.
11. For angle boring and drilling in standing water the rate will be 1.5 times the usual drilling charges. The cost of extra bits and material would be charged at actual.
12. Approach road to boring site so also approach road from one - bore point to another bore point should be done by user Division / Project.
13. If casing pipes or any material is lost in bore that will be charged extra as per actual.
14. For relief well the perforated pipes which are to be kept permanently in bore should be supplied by the project authority. Program should be given in advance estimates to be prepared and budget provision to be made.

PART - II**MACHINERY USE RATES FOR THE YEAR 2010-2011 (1-4-2010 to 31-3-2011)**

Sr.No.	Item fo Equipment	Rate of Depreciation	Rate of Repair	Rate of Running and Maintenance	Total Machinery Use Rate	Machinery use rate per day (8 Hrs. Inclusive of 1 Hr. rest recess to the crew
		per hour	per hour	per hour	per hour	
		A	B	C	A+B+C	
1	2	3	4	5	6	7

23 SPECIAL EQUIPMENT OF PUBLIC WORKS DEPARTMENT

23.1	Branto Sky Lift Bridge Inspection Unit	428.00	662.00	1131.00	2221.00	17768.00
		+95.00 Insurance				
23.2	Asphalt Boiler 1125 Ltr	1.00	11.00	4.48	16.48	128.00

- Note :-**
1. The above machinery use rate do not include the charges on account of Watchman Mistries and any labour and material required for Civil works. They include the charges of labour and material for operation maintenance and repairs to the machine only. Therefore the charges for labour and material for Civil works will be extra.
 2. The machinery use rates for all the other machinery will be the same as specified for the machines of Water Resources Department
 3. All other terms and conditions for hiring of these machines to contractor will be the same as specified for the machines of Water Resources Department.
 4. For Asphalt Boiler at Sr.No. 23.6 Fuel and labour is to be provided by the Civil Division which is charged to work.

(J. M. JADHAV)

Chief Engineer (Mechanical),

Water Resources Department, Nashik - 2.

REGISTER OF WORKS CREDIT SIDE

Results		Total Column No. 26+27
Repairs (Column No. 23-8)	R and M (Column No. 24-16)	
26	27	28
Rs.	Rs.	Rs.

REQUISITION FOR THE MACHINERY

Name of work on which machinery is required -----

Particulars of machinery required

Quantity

Particulars of machinery required

(i) -----

(ii) -----

(iii) -----

(iv) -----

(v) -----

Name of the Division -----

Name of the Sub-Division -----

Name of the contractor / Piece worker (in block letters) -----

Period for which the machinery is required from ----- to -----

The relevant machinery use rates as laid down in the booklet of Machinery use rates and conditions thereof prescribed by the Chief Engineer (Mechanical), Nashik are acceptable.

Note :- Minimum period should not be less than one month as prescribed in the conditions of hire charges.

Signature of the Piece Worker

Contersigned

Executive Engineer / Dy. Engineer

Forwarded with compliments to the Executive Engineer/Deputy Engineer/Mechanical Division/Sub - Division for further action.

The necessary agreement in form 587 has been signed by the Contractor / Piece worker.

The hire charges and the supervision charges will be recovered from the Contractor / Piece worker by this office.

No.

Date

Executive Engineer

Division

àVg{dZ` gmXa -

_m.g{Ml (CogsXn), CogsXn{dMj, Sîrb`, _wS-BC-32 (gmî-1nwpM\$ñ)

_m.g{Ml (bn.jo.{d.}, CogsXn{dMj, Sîrb`, _wS-BC-32 (gmî-1nwpM\$ñ)

_m.g{Ml (aVb), g{D(ZF~nS\$ñ {dMj, Sîrb`, _wS-BC-32 (gmî-1nwpM\$ñ)

àVgZchAJko{fv -

_w» A{^`SîndgMtd\$, hmanî>A{^`nS{IHsqsarozoswî, Zn(e\$\$. (gmî-1nwpM\$ñ)

_w» A{^`SîndgMtd\$, A{^`nS{IHsA{YH\$nar hm(dûrb`, Zn(e\$\$. (gmî-1nwpM\$ñ)

_w» A{^`Sîm ((dûw), Ob{dnZaF\$ñ, _wS-BC. (gmî-1nwpM\$ñ)

_w» A{^`Sîm, bn.jo.{d.àn{YH\$U, AnqasJmK. (gmî-1nwpM\$ñ)

H\$ñ@H\$narqMtd\$, hmanî>y{d\$ng hm\$S>i, nwb. (gmî-1nwpM\$ñ)

_hmbîrmb-1_wS-BC/_hmbîrmb-2Znûya. (gmî-1nwpM\$ñ)

àVAko{fv -

AyrjH\$A{^`Sîm, nS{IHs \$S>i (C.g\$.) nwb/ZnXS>/Znûya/H\$rohmÿa/(ûao) nwb (gmî nwpM\$ñ)

AyrjH\$A{^`Sîm, (AyrjH\$A{^`Sîm (nS{IHs) dJiyZ) CogsXn{dMjMibogd© (gmî nwpM\$ñ)

g{Dàeng\$, bn.jo.{d.àn{YH\$U (gmî-äi`d\$S5nwpM\$ñ)

AyrjH\$A{^`Sîm (nS), gm.nS.{d., H\$nd\$U^dZ, Zdr_wS-BC-40614 (gmî nwpM\$ñ)

This document was created using SmartPDF Creator. To remove this message, purchase the product at www.SmartPDFCreator.com

INDEX

Sr.No.	Name of Equipment	Page No.
PART - I		
1.	Motorised Scrapers	1
2.	Excavators	2
3.	Wheeled Loaders	3
4.	Crawler Loaders	4
5.	Crawler Tractors	4
6.	Dumpers	7
7.	Motor Graders	8
8.	Vibratory Compactors	8
9.	Diesel Road Rollers	9
10.	Tipper	9
11.	Trucks	10
12.	Transporters	11
13.	Pneumatic Wheeled Tractors	11
14.	Trailers	12
15.	Cranes	12
16.	Air Compressors	14
17.	Pneumatic Tools	15
18.	Generating Sets	15
19.	Pumping Sets	17
20.	Diesel Welding Plants	17
21.	Concrete Mixers, Stone Crushers and other misc, items	18
22.	Boring Machinery and general conditions for use of Boring Machinery	20
PART - II		
23.	Special equipment of Public Works Department	22
24.	Procedure for Departmental use of Machinery	23
25.	Procedure When any machine is given for use to the Civil Division by the Mechanical Division	23
26.	Machinery use rates for CADA Machinery	23
27.	Conditions for hiring machinery to Contractors / Piece workers etc.	23
28.	Note on works abstracts, Register of works and preparation of works abstracts	26
29.	Register of work	28
30.	Form of requisition of the machinery.	32