

Machinery Use Rate 2021-22

Chief Engineer (Mechanical), W. R. D. Nashik

Period- 01/04/2021 to 31/03/2022

Name of Equipment	UNIT	A DEPRECIATION	B REPAIR	C RUNNING & MAINTENANCE	TOTAL A +B+C
I) EXCAVATOR					
1.8 CUM & Class - A Machineries(0-40%) Total Life 17500 hrs (upto 7000 hrs)					
1.1) Volvo EC 300 DL (2018)	Hour	546.00	476.00	1966.00	2988.00
1.7 CUM & Class - C Machinery : Total Life 17500 hrs (13125 to 17500 hrs)					
1.2) TATA EX 350	Hour	358.00	557.00	2087.00	3002.00
0.9 CUM & Class - A Machineries (0-40%) All Excavator Total Life 15000 hrs (upto 6000 hrs)					
1.3) Tata Hitachi ZX 220LCM (2016,2017) / JCB JS-205 (2016) / Hyundai R-210 (2016)	Hour	256.00	239.00	1336.00	1831.00
0.9 CUM & Class - B Machineries (40-75%) All Excavator Total Life 15000 hrs (6000 to 11250 hrs)					
1.4) BEML BE 200 (2012,2014)	Hour	231.00	366.00	1334.00	1931.00
0.9 CUM & Class - C Machineries (Above75%) All Excavator Total Life 15000 hrs (Above 11250 hrs)					
1.5) Tata Hitachi EX 200	Hour	202.00	430.00	1246.00	1878.00
1.6) Tata Hitachi EX 200 with rock breaker & slope compactor attachment	Hour	253.00	574.00	1307.00	2134.00
0.6 CUM & Class - A Machineries (0-40%) All Excavator Total Life 15000 hrs (upto 6000 hrs)					
1.7) Kobelco Sk 140 HDLC-8 (2016,2017) / Sany SEY 140 (2019)	Hour	270.00	168.00	1054.00	1492.00
0.6 CUM & Class -B & C Machineries (40-75%) All Excavator Total Life 15000 hrs (6000 to 11250 hrs)					
1.8) JCB JS 140 (2008-09,2016) / Tata Hitachi Zaxis 120H (2012,2014,2015,2016) / L&T CK-72 (C class)	Hour	188.00	320.00	966.00	1474.00
1.9) JCB JS 140 with slope compactor attachment	Hour	235.00	333.00	1010.00	1578.00
0.6 CUM & Class -D Machineries (100% above)					
1.10) Tata Hitachi EX 100	Hour	10.00	488.00	877.00	1375.00
0.44 CUM & Class -A Machineries All Excavator Total Life 15000 hrs (upto 6000hrs)					
1.11) BEML BE 220 Long Boom	Hour	332.00	193.00	1425.00	1950.00

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0.3 CUM & Class -A Machineries All Excavator Total Life 15000 hrs (upto 6000 hrs)					
1.12) Tata Hitachi Ex70 SUPER (2019) / JCB JS 81 (2015, 2016) / Hyundai R-80-7 (2016)	Hour	135.00	84.00	781.00	1000.00
0.3 CUM & Class -B Machineries All Excavator Total Life 15000 hrs (6000 to 11250 hrs)					
1.13) BEML BE 75 (2014,2015, 2016) / BEML BE 71	Hour	116.00	137.00	781.00	1034.00
0.3 CUM & Class -C Machinery All Excavator Total Life 15000 hrs (11250 to 15000 hrs)					
1.14) JCB JS 80	Hour	126.00	210.00	781.00	1117.00
0.3 CUM & Class -D Machinery Excavator Total Life 15000 hrs (Above 15000 hrs)					
1.15) Tata Hitachi EX 70	Hour	10.00	227.00	691.00	928.00
0.18 cum & Class -B Machinery All Excavator Total Life 15000 hrs (6000 to 11250 hrs)					
1.16) TATA HITACHI Zaxis 50	Hour	140.00	98.00	503.00	741.00
II) WHEEL LOADER					
0.26 / 0.24 /0.23 CUM					
2.1) Tata Wheel Loader 3036 (2 cum)	Hour	152.00	446.00	1242.00	1840.00
2.2) Mahindra Earthmaster -SX / Tata Hitachi TH-86 / Case 770T with backhoe / BEML BL 9 H Loader with backhoe	Hour	113.00	139.00	688.00	940.00
III) CRAWLER TRACTOR					
3.1) Komatsu D-355 A-3 / BEML D-355 A-3 / CAT D-9-H	Hour	10.00	1199.00	3344.00	4553.00
3.2) BEML D-155 A-1 / CAT D-8-K	Hour	10.00	1090.00	2662.00	3762.00
3.3) Caterpillar D8H-68 A &22 A	Hour	10.00	995.00	2467.00	3472.00
3.4) CAT D-7-G Dozer	Hour	10.00	790.00	1882.00	2682.00
3.5) BEML BD 80	Hour	765.00	79.00	1589.00	2433.00
3.6) Shantui SD-16 Dozer	Hour	498.00	446.00	1589.00	2533.00
3.7) Shantui SD-13 Dozer	Hour	357.00	446.00	1298.00	2101.00
3.8) BEML BD 50	Hour	647.00	39.00	1005.00	1691.00

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3.9) JD 550-B Dozer / Cat D-4-D Dozer / Cat D-4-E Dozer	Hour	10.00	288.00	810.00	1108.00
3.10) Cat D-3-79-U Dozer / Cat D-3-B Dozer	Hour	10.00	126.00	712.00	848.00
IV) MOTOR GRADER					
4.1) Komatsu GD 605 A3/ BEML GD 605 R-2	Hour	10.00	679.00	1091.00	1780.00
V) VIBRATORY COMPACTOR					
5.1) ACE soil compactor - 10T / Aveling Barford Vib. Comp	Hour	271.00	25.00	772.00	1068.00
VI) DIESEL ROAD ROLLER					
6.1) DRR 8/10 Ton	Hour	10.00	41.00	518.00	569.00
VII) TIPPER					
7.1) TATA LPK 2518 BS III	Km	11.00	9.34	46.07	66.41
	Hour	220.00	187.00	921.00	1328.00
7.2) Mahindra Blazo X25 -25 T	Km	13.00	12.45	70.42	95.87
	Hour	260.00	240.00	1408.00	1908.00
7.3) TATA Tipper 1613/36, 1613/42 Scoop Type /Box Type	Km	7.00	7.67	33.37	48.04
	Hour	140.00	154.00	667.00	961.00
7.4) 10T Tipper	Km	5.00	4.91	33.47	43.38
	Hour	100.00	98.00	669.00	867.00
7.5) Eicher Tipper 8.5 Cum	Km	8.50	8.30	50.44	67.23
	Hour	170.00	166.00	1008.00	1344.00
7.6) 7.5 Ton Cap.	Km	3.00	11.12	28.69	42.81
	Hour	60.00	223.00	574.00	857.00
VIII) Truck/Tanker/Van					
8.1) WATER TANKER 9000 lit. - 10T	Km	9.00	5.91	41.41	56.33
8.2) Truck 7.5 Ton Cap.	Km	1.00	9.15	32.57	42.72

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8.3) School Bus 39/49 seater mounted on 1210/AL Chassis	Km	1.00	10.45	32.50	43.95
8.4) TATA 407	Km	4.00	3.55	25.10	32.65
8.5) TATA Xenon / Mahindra Bolero camper / Mahindra Max Pick up	Km	3.00	3.11	10.06	16.17
IX) TRANSPORTERS					
9.1) Tata Prima LX 4928 - 49T (2016)	Km	11.75	13.46	66.72	91.93
9.2) Mack/Scamell (40T)	Km	0.50	22.72	63.61	86.83
9.3) Mahindra Transporter 35T (2016)	Km	6.75	3.03	49.64	59.42
9.4) Tata Long chassis Transporter 31T	Km	5.70	7.01	49.51	62.22
9.5) AL Hippo / ERF 30 T	Km	0.50	10.29	46.14	56.93
9.6) Mahindra Truxo 25T	Km	4.40	3.99	45.06	53.45
9.7) 20 Ton - Mack, Euclid, A.L. Beaver	Km	0.50	10.42	44.80	55.72
X) CRANES					
10.1) Coles Endurance - 30T	Hour	10.00	849.00	1396.00	2255.00
10.2) Marshall Demag - 30T	Hour	10.00	1301.00	1296.00	2607.00
10.3) Coles Hydra 830 - 30T	Hour	10.00	1294.00	1095.00	2399.00
10.4) Voltas Omega -35 (cap 30T)	Hour	10.00	530.00	1247.00	1787.00
10.5) Coles Mobile Aneas 12.5T	Hour	10.00	1123.00	494.00	1627.00
10.6) Escort MOC - 8E (cap 8T)	Hour	10.00	131.00	487.00	628.00
10.7) Escort MOC 5T	Hour	10.00	86.00	483.00	579.00
10.8) Escort MOC 3T	Hour	10.00	48.00	384.00	442.00
XI) AIR COMPRESSOR					
11.1) 400 CFM	Hour	5.00	53.00	708.00	766.00

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11.2) 260/250 CFM	Hour	5.00	51.00	676.00	732.00
11.3) 175 CFM	Hour	5.00	6.00	676.00	687.00
XII) Generating Set					
12.1) 125 KVA	Hour	5.00	41.00	1247.00	1293.00
12.2) 100 KVA	Hour	3.00	33.00	875.00	911.00
12.3) 41 to 60 KVA	Hour	1.00	28.00	591.00	620.00
12.4) 31 to 40 KVA	Hour	1.00	27.00	404.00	432.00
12.5) 10 to 20 KVA	Hour	1.00	26.00	307.00	334.00
12.6) 6 to 7.5 KVA	Hour	1.00	12.00	213.00	226.00
XII) Pumping Set					
13.1) 2 to 9 HP	Hour	1.00	1.00	224.00	226.00
XIV) DIESEL WELDING PLANT					
14.1) DIESEL WELDING PLANT	Hour	3.00	60.00	356.00	419.00
XV) BORING MACHINERY (RATE IN Rs/Meter)					
15.1) Over Burden by Diamond Drilling Machine	Meter	10.00	69.00	994.00	1073.00
15.2) Quartzite by Diamond Drilling Machine with NX BitCore size 54mm (2 1/8 inch)	Meter	16.00	647.00	4405.00	5068.00
15.3) Quartzite by Diamond Drilling Machine with BX Bit Core size 41.3mm (1 5/8 inch)	Meter	10.00	490.00	3267.00	3767.00
15.4) Quartzite by Diamond Drilling Machine with AX Bit Core size 30.2mm (1 3/16 inch)	Meter	8.00	323.00	2226.00	2557.00
15.5) Other Rock With Diamond Drill with NX bit Machine (0 to 50 Meters) Core Size 54 mm (2 1/8 inch)	Meter	15.00	271.00	2179.00	2465.00
15.6) Sample Cores 18"(45.7 cm), 24" (60.9 cm), 36" (91.4cm) Dia in masonry / Concrete upto 0.9 meter					
36"	Meter	0.00	5505.00	10965.00	16470.00
24"	Meter	0.00	4131.00	8218.00	12349.00

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18"	Meter	0.00	2788.00	5956.00	8744.00
XVI) SPECIAL EQUIPMENT OF P.W.S. DEPTT.					
16.1) Bronto Sky Lift Bridge Inspection Unit	Hour	360.00	800.00	2333.00	3493.00