cemechid_nsk@sancharnet.in
जा.क्र.मुअयां/एमयुआर/६००७/(२३/०७)/तां.७/३०९९/२००८
फोन नं. २५७८३५४ फॅक्स २५७८३५६

मुख्य अभियंता (यांत्रिकी)
जलसंपदा विभाग, नाशिक-२.
यांचे कार्यालय.
दिनांक - १४/०८/ २००८

प्रति,

मुख्य अभियंता,
(जलसंपदा व सार्वजनिक बांधकाम विभाग अंतर्गत सर्व)

विषय : यंत्रसामग्री वापर दर सन २००८-२००९ (कालावधी १.४.२००८ ते ३१.३.२००९)

यंत्रसामुग्री वापर दर प्रस्ताव सन २००८-२००९ शासन मान्यतेसाठी सादर करण्यांत आला होता. सदर प्रस्तावास शासन पत्र क्र. यंत्र १०.०८/५९२/(१०५/२००८) यांत्रिकी, जलसंपदा विभाग, मंत्रालय, मुंबई दि. २७/६/२००८ अन्वये मान्यता प्रदान करण्यांत आली आहे.

यंत्रसामुग्री वापर दर पुस्तिकेमध्ये समाविष्ट असलेले दर हे शासनाच्या जलसंपदा विभागाच्या अधिपत्याखालील यांत्रिकी संघटनेच्या मालकीच्या यंत्रसामुग्रीच्या सहाय्याने प्रकल्पावर खात्यामार्फत करण्यांत येणाऱ्या कामासाठीच अधिकृत आहेत. कंत्राटदारामार्फत / ठेकेदारामार्फत करण्यांत येणाऱ्या कुठल्याही कामाच्या अंदाजपत्रकासाठी त्याचा विचार करण्यांत येऊ नये.

ज्या संयंत्रांचे आयुष्यमान पूर्ण झालेले आहे, त्यांच्या संदर्भात घसारा या शीर्षांतर्गत दर विचारात घेऊ नये. याबाबत आवश्यक ती कार्यवाही संबंधित कार्यालयाने करावी. परंतु कंत्राटदार/ठेकेदार यांना मात्र पुस्तिकेमध्ये दर्शविल्यानुसार घसारा दर आकारण्यांत यावा.

कंत्राटदार / ठेकेदार यांना शासकीय यंत्रसामुग्री भाडे तत्त्वावर देताना करावयाच्या कार्यवाहीबाबत पुस्तिकेतील अ.क्र. २७ नुसार कार्यवाही करण्यात यावी.

७.५ टन क्षमेतच्या टिप्पर्सचा ९६ कि.मी. पर्यंतच वापर असल्यास तासानुसार व ९६ कि.मी पेक्षा जास्त वापर असल्यास किलोमीटरनुसार दर आकारणी करण्यांत येत असल्यामुळे टिप्पर्सच्या वापराबाबत नोंदी कि.मी. व तासानुसार ठेवण्यांत याव्यात.

शासकीय यंत्रसामुग्रीवरील खर्चाची तसेच प्राप्तीची माहिती या पुस्तिकेमध्ये देण्यांत आलेल्या रजिस्टर ऑफ वर्क्सच्या विहित प्रप्रत्रामध्ये ठेवण्याबाबत आपल्या अधिपत्याखालील संबंधित अधिकाऱ्यांना सुचना देण्यांत यावी.

यंत्रसामुग्री वापर दर पुस्तिका सन २००८-२००९ (कालावधी १.४.२००८ ते ३१.००३.२००९) च्या ५ प्रती सोबत पाठविण्यांत येत आहेत.

सही/-XX
(ज. म. जाधव)
मुख्य अभियंता (यांत्रिकी),
जलसंपदा विभाग, नाशिक

सोबत - ५ पुस्तिका

प्रत सविनय सादर -

मा. सचिव (जलसंपदा), जलसंपदा विभाग, मंत्रालय, मुंबई - ३२ (सहपत्र - १ पुस्तिका)

मा. सचिव (ला.क्षे.वि.), जलसंपदा विभाग, मंत्रालय, मुंबई - ३२ (सहपत्र - १ पुस्तिका)

मा. सचिव (रस्ते), सार्वजनिक बांधकाम विभाग, मंत्रालय, मुंबई - ३२ (सहपत्र - १ पुस्तिका)

प्रत सस्नेह अग्रेषित -

मुख्य अभियंता व संचालक, महाराष्ट्र अभियांत्रिकी संशोधन संस्था, नाशिक. (सहपत्र - १ पुस्तिका)

मुख्य अभियंता व संचालक, अभियांत्रिकी अधिकारी महाविद्यालय, नाशिक. (सहपत्र - १ पुस्तिका)

मुख्य अभियंता (विद्युत), जलविज्ञान प्रकल्प, मुंबई. (सहपत्र - १ पुस्तिका)

मुख्य अभियंता, ला. क्षे. वि. प्राधिकरण, औरंगाबाद. (सहपत्र - १ पुस्तिका)

कार्यकारी संचालक, महाराष्ट्र भू-विकास महामंडळ, पुणे. (सहपत्र - १ पुस्तिका)

महालेखापाल - १ मुंबई / महालेखापाल - २ नागपूर. (सहपत्र - १ पुस्तिका)

प्रत अग्रेषित -

अधीक्षक अभियंता, यांत्रिकी मंडळ (उ.सं.) पुणे/नांदेड/नागपूर/कोल्हापूर/(द्वारे) पुणे (सहपत्र पुस्तिका)

अधीक्षक अभियंता, (अधीक्षक अभियंता (यांत्रिकी) वगळून) जलसंपदा विभागातील सर्व (सहपत्र पुस्तिका)

सर्व प्रशासक, ला. क्षे. वि. प्राधिकरण (सहपत्र - प्रत्येकी ५ पुस्तिका)

अधीक्षक अभियंता (यां), सा.बां.वि., कोकण भवन, नवी मुंबई - ४०० ६१४ (सहपत्र पुस्तिका)

INDEX

PART - I

MACHINERY USE RATES FOR THE YEAR 2008-2009 (1-04-2008 to 31-03-2009)

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**	**2133.00**	**2939.00**	**5212.00**
1.2	BHARAT 229-F Hydraulic Capacity : 11.5/16.006 cum (15/21 cu.yds.)	**70.00**	**1066.00**	**1941.00**	**3070.00**
1.3	Caterpillar 619 C Capacity : 10.7/13.7 cum	**4.00**	**607.00**	**1599.00**	**2210.00**
1.4	Caterpiller 627 C Capacity : 10.7/13.7 cum (14/18 cu.yds.)	**190.00**	**1314.00**	**2513.00**	**4017.00**
1.5	Euclid B-6 FDT Capacity : 9.5/12.2 cum (12/16 cu.yds.) (a) For Deparmtmental use (b) For Contractor / Piece Worker	**4.00**	**808.00**	**1457.00**	**2269.00**
1.6	John Deer J D 762 B Capacity : 8.4 cum (11 cu.yds.) (a) For Other Works Excluding CADA (b) For Land Levelling Works Under CADA	**127.00**	**913.00**	**1341.00**	**2381.00**
1.11	TEREX TS-14 B Capacity : 10.7/15.3 cum (14/20 cu.yds.)	**120.00**	**787.00**	**1805.00**	**2712.00**

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**	**963.00**	**1775.00**	**2926.00**
2.2	Demag H 51 Capacity : Loader : 3.23 cum. (4.25 cu.yds.) Back hoe : 2 cum. (2.6 cu.yds.)	**184.00**	**1144.00**	**1775.00**	**3103.00**
2.3	Poclain HC - 300 Capacity : Loader : 3.23 cum. (4.25 cu.yds.) Back hoe : 2 cum. (2.6 cu.yds.)	**79.00**	**1292.00**	**1768.00**	**3139.00**
2.4	Hind Marin 101 M Capacity : 2.3 cum (3 cu.yds.)	**56.00**	**532.00**	**1432.00**	**2020.00**
2.5	P and H 655 - B Capacity : 1.15 cum (1.5 cu.yds.)	**17.00**	**200.00**	**799.00**	**1016.00**
2.6	Poclain CK-90 Capacity : 0.95 cum (1.24 cu.yds.)	**67.00**	**580.00**	**1162.00**	**1809.00**
2.7	Atlas E 1602 (Back-hoe) Capacity : 0.6 cum (0.78 cu.yds.)	**65.00**	**368.00**	**652.00**	**1085.00**
2.8	Poclain LC - 80 Capacity : 0.9 cum (1.14 cu.yds.)	**67.00**	**580.00**	**1162.00**	**1809.00**

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	Long Mount clam sell attachment for Poclain LC - 80	**26.00**	**76.46**	**11.00**	**113.46**
2.10	Tata Hitachi Ex-100 (Back-hoe attachment)	**219.00**	**216.00**	**677.00**	**1112.00**
2.11	JD 550 B Backhoe (Converted)	**92.00**	**181.00**	**666.00**	**939.00**
2.12	JD Wheel Tractor with Backhoe (2130)	**70.00**	**152.00**	**408.00**	**630.00**
2.13	JD 550 B (Original)	**92.00**	**190.00**	**683.00**	**965.00**
2.14	Terex 72-21 (Backhoe Attachment)	**100.00**	**250.00**	**774.00**	**1124.00**
2.15	JCB JS-80	**119.00**	**54.00**	**684.00**	**857.00**
2.16	TATA Hitachi EX-200	**193.00**	**580.00**	**1162.00**	**1935.00**
3	**WHEELED LOADER**				
3.1	BEML 3035 Capacity : 3.8 cum (4.97 cu.yds.)	**116.00**	**736.00**	**1724.00**	**2576.00**
3.2	Fiat Allis 745 C Capacity : 3.5 cum (4.5 cu.yds.)	**47.00**	**869.00**	**1651.00**	**2567.00**
3.3	Caterpiller 966 D Capacity : 3 cum (3.9 cu.yds.)	**80.00**	**524.00**	**1294.00**	**1898.00**

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.
3.4	Terex 72-51 Capacity : 2.68 cum (3.5 cu.yds.)	**24.00**	**747.00**	**1429.00**	**2200.00**
3.5	Terex 72-21 Capacity : 1.53 cum (2 cu.yds.)	**45.00**	**552.00**	**1158.00**	**1755.00**
3.6	Caterpiller 930 Capacity : 1.29 cum (1.69 cu.yds.)	**35.00**	**559.00**	**1283.00**	**1877.00**
3.7	Escort JCB- 3C Capacity : 1.2 cum (1.57 cu.yds.)	**40.00**	**141.00**	**771.00**	**952.00**
3.8	Marshall AR- 61 Capacity : 1.2 cum (1.57 cu.yds.)	**45.00**	**175.00**	**635.00**	**855.00**
4	**CRAWLER LOADER**				
4.1	Caterpiller 977-L Capacity : 2.1 cum (2.75 cu.yds.)	**35.00**	**463.00**	**1312.00**	**1810.00**
4.2	Komatsu D-60-S-3 Capacity : 1.68 cum (2.2 cu.yds.)	**14.00**	**528.00**	**1249.00**	**1791.00**
5	**CRAWLER TRACTOR**				
5.1	Komatsu D-355 A (with or with out dozer blade or ripper)	**78.00**	**1025.00**	**2439.00**	**3542.00**
5.2	Komatsu D-355 A-3 (with or with out dozer blade or ripper)	**138.00**	**1257.00**	**2424.00**	**3819.00**

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.
5.3	BEML D-355-A-3 (with or with out dozer blade or ripper)	**138.00**	**1257.00**	**2424.00**	**3819.00**
5.4	Caterpiller D-9-H (with or with out dozer blade or ripper)	**159.00**	**1345.00**	**2239.00**	**3743.00**
5.5	Caterpiller D-9-G (with or with out dozer blade or ripper)	**62.00**	**958.00**	**2336.00**	**3356.00**
5.6	BEML D-155 A-1 (with or with out dozer blade or ripper)	**144.00**	**1003.00**	**2126.00**	**3273.00**
5.7	Caterpiller D-8-K (with or with out dozer blade or ripper)	**112.00**	**1246.00**	**2014.00**	**3372.00**
5.8	Terex 82-40 DA (with or with out dozer blade or ripper)	**186.00**	**817.00**	**1792.00**	**2795.00**
5.9	Terex 82-40 DC (with or with out dozer blade or ripper)	**186.00**	**817.00**	**1792.00**	**2795.00**
5.10	Caterpiller D-8-H-68 A & 22 A (with or with out dozer blade or ripper)	**13.00**	**1419.00**	**1764.00**	**3196.00**
5.11	Bharat D-120 A-18	**69.00**	**444.00**	**1674.00**	**2187.00**
5.12	Caterpiller D-8-46-A	**14.00**	**232.00**	**1476.00**	**1722.00**

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.
5.13	Caterpiller D-7-G	**89.00**	**792.00**	**1308.00**	**2189.00**
5.14	Bharat D-80 A-12	**67.00**	**392.00**	**1393.00**	**1852.00**
5.15	Caterpiller D-7-47-A	**14.00**	**251.00**	**1244.00**	**1509.00**
5.16	Komatsu D-60 -A	**16.00**	**96.00**	**976.00**	**1088.00**
5.17	Caterpiller D-4-D	**9.00**	**242.00**	**721.00**	**972.00**
5.18	Caterpiller D-4-E	**35.00**	**242.00**	**635.00**	**912.00**
5.19	John Deer JD -550 B (with or without Dozer blade)	**42.00**	**176.00**	**629.00**	**847.00**
5.20	John Deer JD -550 (with or without Dozer blade)	**35.00**	**176.00**	**629.00**	**840.00**
5.21	Caterpiller D-3-B	**18.00**	**234.00**	**633.00**	**885.00**
5.22	Caterpiller D-3 (79 U)	**18.00**	**234.00**	**637.00**	**889.00**

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.
6	**DUMPER**				
6.1	Wabco Haulpack-35 Capacity : 18.12/20.94 cum.	**77.00**	**793.00**	**1583.00**	**2453.00**
6.2	Belaz 540 Capacity : 15/19 cum.	**36.00**	**670.00**	**1724.00**	**2430.00**
6.3	Bharat Haulpack-35 Capacity : 18.20/20.94 cum.	**77.00**	**793.00**	**1583.00**	**2453.00**
6.4	BEML Haulpack-35 Capacity : 18.12/20.94 cum.	**77.00**	**793.00**	**1583.00**	**2453.00**
6.5	Terex R -35- B Capacity : 17.8/20.6 cum.	**126.00**	**704.00**	**1572.00**	**2402.00**
6.6	Terex R-35-B-1 Capacity : 17.8/20.6 cum.	**126.00**	**704.00**	**1572.00**	**2402.00**
6.7	Bharat 25 Haulpack Capacity : 11.5/15.3 cum.	**63.00**	**703.00**	**1529.00**	**2295.00**
6.8	Terex-R-25-H-4 TD Capacity : 12.3/15 cum.	**75.00**	**752.00**	**1317.00**	**2144.00**
6.9	Wabco ‘C’Tournapull with rear dumper Capacity : 11.23/16.8 cum.	**35.00**	**555.00**	**1361.00**	**1951.00**

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.
6.10	Aveling Jessop SL-340 Capacity : 7.6/9.5 cum.	**45.00**	**309.00**	**811.00**	**1165.00**
6.11	Ashok Leyland Hippo ALH 1 / 5 Capacity : 9/10.7 cum.	**50.00**	**434.00**	**936.00**	**1420.00**
6.12	Ashok Leyland Jumbo Capacity : 7.84/9.16 cum. (10/12 cu.yds.)	**19.00**	**336.00**	**776.00**	**1131.00**
6.13	Ashok Leyland Beaver Capacity : 6.1 cum. (8 cu.yds.)	**12.00**	**237.00**	**793.00**	**1042.00**
6.14	Tata 1516 Scoop Type Capacity : 6 cum. (7.8 cu.yds.)	**33.00**	**189.00**	**670.00**	**892.00**
7	**MOTOR GRADER**				
7.1	Komatsu GD-605 A-3	**87.00**	**281.00**	**776.00**	**1144.00**
7.2	BEML GD 605 R-1	**135.00**	**259.00**	**770.00**	**1164.00**
7.3	Wabco 440- H	**22.00**	**382.00**	**805.00**	**1209.00**
7.4	Komatsu GD-37-3	**7.00**	**175.00**	**706.00**	**888.00**
8	**VIBRATORY COMPACTOR**				
8.1	Dynapack CA 51-P	**125.00**	**655.00**	**1029.00**	**1809.00**

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.
8.2	Aveling Barford	**16.00**	**394.00**	**652.00**	**1062.00**
8.3	L&T Sismopactor TT 900	**107.00**	**315.00**	**696.00**	**1118.00**
8.4	Sismopactor 850-S	**55.00**	**690.00**	**722.00**	**1467.00**
8.5	Bomag Vibratory Slope Compactor BW to SH	**26.00**	**86.00**	**217.00**	**329.00**
8.6	Maximix Vib. Roller DVR-75	**14.00**	**49.00**	**221.00**	**284.00**
8.7	Maximix Vib. Roller VR-60	**4.00**	**14.00**	**123.00**	**141.00**
8.8	Maximix Vibratory Road Roller	**17.00**	**62.00**	**240.00**	**319.00**
9	**DIESEL ROAD ROLLER**				
9.1	D R R - 8 / 10 Ton	**14.00**	**79.00**	**303.00**	**396.00**
9.2	D R R - 4 / 5 Ton	**8.00**	**25.00**	**155.00**	**188.00**
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**	**32.25**	**40.25**

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.
10.2	7.5 Ton Tata Tipper (old)				
	(1) For Running Over 96 KM	**1.00/Km.**	**9.50/Km.**	**33.25/Km.**	**43.75/Km.**
	(2) For Running Up To 96 KM	**12.00/Hr.**	**114/Hr.**	**399/Hr.**	**525/Hr.**
10.3	7.5 Ton A.Layland (old)				
	(1) For Running Over 96 KM	**1.00/Km.**	**9.50/Km.**	**33.25/Km.**	**43.75/Km.**
	(2) For Running Up To 96 KM	**12.00/Hr.**	**114/Hr.**	**399/Hr.**	**525/Hr.**
10.4	7.5 T Tata (96-97)				
	(1) For Running Over 96 KM	**2.40/Km.**	**3.50/Km.**	**32.45/Km.**	**38.35/Km.**
	(2) For Running Up To 96 KM	**28.80/Hr.**	**42.00/Hr.**	**389.40/Hr.**	**460.20/Hr.**
10.5	7.5 T A.L. (96-97)				
	(1) For Running Over 96 KM	**2.50/Km.**	**3.50/Km.**	**32.35/Km.**	**38.35/Km.**
	(2) For Running Up To 96 KM	**30.00/Hr.**	**42.00/Hr.**	**388.20/Hr.**	**460.20/Hr.**
11	**TRUCK**				
11.1	5 Ton Cap. (per KM)	**1.00**	**6.50**	**26.95**	**34.45**
11.2	5 Ton Water Tanker	**7.00**	**61.00**	**314.00**	**382.00**
11.3	5 Ton School Bus (per KM)	**1.00**	**8.00**	**28.95**	**37.95**
11.4	7.5 Ton (per KM)	**1.00**	**7.70**	**30.05**	**38.75**
11.5	7.5 Ton Water Tanker	**10.00**	**77.00**	**308.97**	**395.97**

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.
11.6	7.5 Ton School Bus (Per KM)	**1.00**	**9.00**	**30.05**	**40.05**
11.7	3.5 Ton DCM Toyota (per KM)	**1.00**	**2.80**	**15.05**	**18.85**
12	**TRANSPORTER**				
12.1	Foden	**73.00**	**250.00**	**962.00**	**1285.00**
12.2	Scamell	**38.00**	**192.00**	**847.00**	**1077.00**
12.3	ERF	**18.00**	**191.00**	**847.00**	**1056.00**
12.4	Mack, Euclid, A.L.Beaver	**10.00**	**196.00**	**842.00**	**1048.00**
12.5	A.L.Semigama (per KM)	**1.00**	**9.50**	**39.80**	**50.30**
13	**PNEUMATIC WHEELED TRACTOR**				
13.1	John Deer 2130 with plouge, Tiles, Disc Harrows and Front end dozer	**7.00**	**83.00**	**313.00**	**403.00**
13.2	IH Super BMD, Fordson, Ferguson	**6.00**	**57.00**	**218.00**	**281.00**
13.3	Escort Tugger	**4.00**	**58.00**	**257.00**	**319.00**
13.4	Kirloskar D 600 CK	**18.00**	**52.00**	**299.00**	**369.00**
13.5	HMT Zetor	**6.00**	**53.00**	**255.00**	**314.00**

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.
14	**TRAILER**				
14.1	Rubber Tyred 15 - 20 T	**1.00**	**27.00**	**26.00**	**54.00**
14.2	Rubber Tyred 10 - 15 T	**1.00**	**13.00**	**23.00**	**37.00**
14.3	Rubber Tyred 5 - 10 T	**1.00**	**11.00**	**18.00**	**30.00**
14.4	Rubber Tyred 0 - 5 T	**1.00**	**11.00**	**18.00**	**30.00**
15	**CRANE**				
15.1	Voltas Omega-35 (Cap 30 T)	**190.00**	**315.00**	**974.00**	**1479.00**
15.2	Coles Endurance 30T	**131.00**	**375.00**	**973.00**	**1479.00**
15.3	Coles Hydra 850 M - 30T	**436.00**	**501.00**	**865.00**	**1802.00**
15.4	Coles Hydra 830- 30T	**165.00**	**375.00**	**902.00**	**1442.00**
15.5	Marshall Demag 30T	**182.00**	**310.00**	**971.00**	**1463.00**
15.6	Coles 1510 (S) 15.85 T	**31.00**	**197.00**	**475.00**	**703.00**
15.7	Hy.Operated Truck Mounted Mobile - 15 T	**352.00**	**254.00**	**541.00**	**1147.00**

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.
15.8	Coles Truck Mounted ANEAS (12 T)	**34.00**	**213.00**	**477.00**	**724.00**
15.9	Ashok Leyland Hippo Chassis Mounted Coles Aneas Crane	**18.00**	**88.00**	**614.00**	**720.00**
15.10	Coles Mobile Aneas (12.5 T)	**13.00**	**198.00**	**471.00**	**682.00**
15.11	Esort MOC -8E (Cap 8 T)	**18.00**	**66.00**	**330.00**	**414.00**
15.12	Escort Mobile (8 T)	**58.00**	**94.00**	**330.00**	**482.00**
15.13	Coles Mobile (6 T)	**11.00**	**78.00**	**318.00**	**407.00**
15.14	Escort MOC Mobile (5 T)	**22.00**	**53.00**	**314.00**	**389.00**
15.15	Escort MOC - 3E Mobile (3 T)	**10.00**	**58.00**	**293.00**	**361.00**
15.16	Peine Tower (3T)	**12.00**	**133.00**	**329.50**	**474.50**
15.17	I.H. 3 T International Harvestor Mobile	**4.00**	**37.00**	**324.00**	**365.00**
15.18	J.D. Wheel tractor Crane (Converted)	**52.00**	**107.00**	**316.00**	**475.00**
15.19	Forklift (2.5 T)	**6.00**	**24.00**	**196.00**	**226.00**
15.20	Polimax Tower (2.25 T)	**9.00**	**88.00**	**321.00**	**418.00**

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.
15.21	Usha Atlas DC-6 Truck Mounted Lorry Loader (Cap. 0.9 to 2 T)	**18.00**	**56.00**	**304.00**	**378.00**
15.22	Swedish Linden Alimak (1.5 T)	**10.00**	**101.00**	**256.00**	**367.00**
15.23	Mono Tower (8 T)	**51.00**	**156.00**	**648.00**	**855.00**
15.24	Marine Crane	**7.00**	**130.00**	**420.00**	**557.00**
16	**AIR COMPRESSOR**				
16.1	510 Cfm. Elect.	**4.00**	**82.00**	**390.00**	**476.00**
16.2	500 / 510 Cfm Diesel	**10.00**	**87.00**	**624.00**	**721.00**
16.3	400 Cfm	**10.00**	**87.00**	**624.00**	**721.00**
16.4	365 Cfm	**9.00**	**70.00**	**630.00**	**709.00**
16.5	315 Cfm	**4.00**	**33.00**	**487.00**	**524.00**
16.6	260 / 250 Cfm	**6.00**	**41.00**	**440.00**	**487.00**
16.7	280 cfm	**6.00**	**41.00**	**440.00**	**487.00**
16.8	225 Cfm	**4.00**	**40.00**	**438.00**	**482.00**
16.9	210 Cfm	**4.00**	**40.00**	**438.00**	**482.00**

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**	**30.00**	**308.00**	**341.00**
16.11	160 Cfm	**3.00**	**30.00**	**308.00**	**341.00**
16.12	105 Cfm	**3.00**	**17.00**	**247.50**	**267.50**

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

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

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**	**13.43**	**7.00**	**21.43**

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**	**82.00**	**1353.00**	**1442.00**
18.2	125 to 135 KVA	**5.00**	**69.00**	**696.00**	**770.00**

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**	**52.00**	**620.00**	**676.00**
18.4	80 KVA	**3.00**	**32.00**	**514.00**	**549.00**
18.5	61 to 70 KVA	**2.00**	**34.00**	**473.00**	**509.00**
18.6	41 to 60 KVA	**2.00**	**28.00**	**433.00**	**463.00**
18.7	31 to 40 KVA	**2.00**	**35.00**	**338.00**	**375.00**
18.8	21 to 30 KVA	**2.00**	**27.00**	**247.00**	**276.00**
18.9	10 to 20 KVA	**1.00**	**25.00**	**189.00**	**215.00**
18.10	6 to 7.5 KVA	**1.00**	**15.00**	**147.00**	**163.00**
18.11	5 KVA	**1.00**	**12.00**	**104.00**	**117.00**

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

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

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**	**31.00**	**265.00**	**299.00**
19.2	50 to 60 HP	**2.00**	**30.00**	**255.00**	**287.00**
19.3	30 to 40 HP	**2.00**	**28.00**	**199.00**	**229.00**
19.4	20 to 29 HP	**1.00**	**22.00**	**167.00**	**190.00**
19.5	10 to 19 HP	**1.00**	**19.00**	**130.00**	**150.00**
19.6	5 to 9 HP	**1.00**	**12.00**	**102.00**	**115.00**
19.7	3 HP	**1.00**	**8.00**	**62.00**	**71.00**
19.8	2 HP	**1.00**	**8.00**	**54.00**	**63.00**

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

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

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

20	**DIESEL WELDING PLANT**				
20.1	30 HP	**3.00**	**20.00**	**178.00**	**201.00**

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**	**154.00**	**176.00**
21.2	Concrete Mixer 10/7 cft	**3.00**	**16.00**	**119.00**	**138.00**
21.3	Concrete Mixer 7/5 cft	**1.00**	**7.00**	**106.00**	**114.00**
21.4	Morter Mill	**1.00**	**4.00**	**91.00**	**96.00**
21.5	Major Stone Crusher 16 “ x 10 “	**9.00**	**80.00**	**343.00**	**432.00**
21.6	Stone Crusher 16"x9",16"x5"	**5.00**	**80.00**	**343.00**	**428.00**
21.7	Mini Marshal Granulator 16" x 4"	**8.00**	**67.00**	**261.00**	**336.00**
21.8	Vibratory Roller 3 HP	**1.00**	**5.00**	**80.00**	**86.00**
21.9	Maximix Earth Rammer	**1.00**	**5.00**	**80.00**	**86.00**
21.10	Maximix Vib. Earth Rammer VR-1	**2.00**	**9.00**	**87.00**	**98.00**
21.11	Maximix Trench Rammer TR- 10	**3.00**	**9.00**	**92.00**	**104.00**
21.12	Gromaco Concrete Finisher	**65.00**	**163.00**	**201.00**	**429.00**
21.13	Gromaco Concrete Block Machine	**9.00**	**16.00**	**85.00**	**110.00**

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**	**178.00**	**485.00**	**697.00**
21.15	Rod Mill 3" x 8"	**20.00**	**104.00**	**312.00**	**436.00**
21.16	Builder Hoist 2 T	**8.00**	**59.00**	**180.00**	**247.00**
21.17	Builder Hoist 1.25 T	**7.00**	**56.00**	**179.00**	**242.00**
21.18	Builder Hoist 1 T	**3.00**	**31.00**	**128.00**	**162.00**
21.19	Vibrator (Diesel)	**1.00**	**7.00**	**81.00**	**89.00**
21.20	Vibrator (Electrical)	**1.00**	**7.00**	**75.00**	**83.00**
21.21	Bhai RDHE Concrete Mixture 1000 Ltrs	**88.00**	**108.00**	**350.00**	**546.00**

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

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

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**	**568.00**	**644.00**
22.2	Quartzite by Diamond Drilling Machine with NX BitCore size 54mm (2 1/8 inch)	**16.00**	**396.00**	**2724.00**	**3136.00**
22.3	Quartzite by Diamond Drilling Machine with BX Bit Core size 41.3mm (1 5/8 inch)	**10.00**	**297.00**	**2045.00**	**2352.00**
22.4	Quartzite by Diamond Drilling Machine with AX Bit Core size 30.2mm (1 3/16 inch)	**8.00**	**247.00**	**1705.00**	**1960.00**
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**	**210.00**	**1360.00**	**1585.00**
22.6	Sample Cores 18"(45.7 cm), 24" (60.9 cm), 36" (91.4cm) Dia in masonary / Concrete upto 0.9 meter				
	i 18"	**0.00**	**1840.00**	**3052.00**	**4892.00**
	ii 24"	**0.00**	**2760.00**	**4576.00**	**7336.00**
	iii 36"	**0.00**	**3680.00**	**6104.00**	**9784.00**

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

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 2008-2009 (1-4-08 to 31-3-09)

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	Bramato SKY Lift Bridge Inspection Unit	**428.00**	**645.00**	**916.00**	**1989.00**	**15912.00**
			+95.00 Insurance			
23.2	Mini Hot Mix Plant	**7.00**	**317.00**	**425.00**	**749.00**	**5992.00**
			Excluding Heating			
23.3	Hot Mix Plant	**30.00**	**837.00**	**1250.00**	**2117.00**	**16936.00**
			Excluding Heating			
23.4	Paver Finisher	**15.00**	**307.00**	**462.00**	**784.00**	**9408.00**
23.5	Asphalt Mixer 7 / 5 Cft	**5.00**	**60.00**	**155.00**	**210.00**	**1760.00**
23.6	Asphalt Boiler 1125 Ltr	**1.00**	**11.00**	**4.00**	**16.00**	**128.00**
23.7	Asphalt Bouzer 7.5 T (Per Km)	**1.00/km.**	**6.00/km.**	**24.00/km.**	**31.00/km.**	**248.00**
			Excluding Heating			
23.8	Tough Rider	**6.00**	**15.30**	**145.00**	**166.30**	**1330.40**

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.

24. PROCEDURE FOR DEPARTMENTAL USE OF MACHINERY

24.1 Fraction of an hour / KM, should be counted as full hour / Km. The rounding of hours / Kms. should be done at the end of each month.

24.2 Unless Otherwise mentioned in the requisition it shall be presumed that the machinery is being used to department works only and is not hired to contractor or piece worker.

24.3 The machinery working charges do not include the following charges which will be extra at actual.

(a) Transportation of machinery from the Sub - Divisional Stores to the work site and return to stores.

(b) Transportation of machinery from one work site to another work site.

(c) Transportation of fuel, Lubricants, spares, tools, OMR staff etc. from Sub - Divisional head quarters to work site and back.

(d) Transportation of machinery for carrying out major repairs to the nerest work shop.

(e) The charges of watchman to be provided for the machines working at isolated places.

(f) If the machies are required for period less than a working season the D.A. of crew will be charged extra.

25. PROCEDURE WHEN ANY MACHINE IS GIVEN FOR USE TO THE CIVIL DIVISION BY THE MECHANICAL DIVISION.

25.1 Operation and maintenance (including day to day running repairs) is to be arranged by civil division.

25.2 The credits for the element of depreciation should be passed on to the concerned authority i.e. either mechanical divisions or projects according to ownership of the machine.

25.3 No debit or credits on account of O.M.R. (inclusive of running repqirs) should be passed on by the civil divisions to the Mechanical Divisions.

25.4 Major repairs should be carried out by the Mechanical Divisions for which the credits for the element of Major Repairs should be passed on to the Mechanical Division by the Civil Divisions every month at the same time as credits for Depreciation are passed on to the authority concerned.

26. MACHINERY USE RATES FOR CADA MACHINERY

26.1 Machinery Use Rates for Jd 762 B Elevating Scrapers, Cat D 4E, JD550B, JD550, Cat D3 B, Cat D3 (79U) Tractor and Komatsu GD605A-3 Motor Graders being used for Light Land Leveling works under CADA are worked out separately considering the life of the above machinery as 15000 Hours as against 9000 Hours of the machinery being used on other works excluding CADA. The revised rates are shown at (1.10, 5.17, 5.18, 5.20, 5.21, 5.23 & 7.01) respectively on Page Nos (5, 6 & 7) Other conditions remain unchanged

27. CONDITIONS FOR HIRING MACHINERY TO CONTRACTORS / PIECE WORKES ETC.

27.1 Charges for hiring equipment to contractor / piece worker and local bodies. Zilla Parishads, Municipalities, Mah. State Elect. Boards etc. shall be worked out as below and charged accordingly.

If Rs. "H" is the machinery use rate, I.I.H. will be the machinery use rate to be adopted in respect of the machinery given on hire to contractor / piece worker and local bodies,

Zilla Parishads, Munipalities, Mah. State Elect Boards etc. On this 10% Supervision charges should be levied as per Government Memorandum Irrigation and power Department No. MCN. 1064/14858 - IP (1), dated 8-12-64 and MCN-1073/159062-IP (1), dated 12-12-73.

Sample calculations of charges for hiring.

Name of Equipment	Total Use Rate Rs.(H)	1.1 (H)	Hiring Charges for Contractor / Piece Worker after adding 10% Supervision on 1.1 (H)
8/10 Ton Diesel Road Roller	380/Hr.	418/Hr.	Rs.459.8/Hr. Say Rs.460/Hr
7.5 Ton Tata Tipper	43/Km.	47.3/Km	Rs.52.03/Km Say Rs.52/Km
7.5 Ton Truck	40/Km	44/Km	Rs. 48.8/Km Say Rs.49/Km

27.2 In respect of Special Equipments of Public Works Department (Shown in part - II) the Charges for hiring the equipment to the Contractor / Piece worker and Local bodies Zillah Parishads, Municipalities, Mah. State Elect. Boards etc. shall be worked out as below and charged accordingly. If Rs. 'D' is the use rate per day 1.1 D will be the Daily use rate to the adopted in respect of the machinery given on hire to Contractor / piece worker. On this 10% Supervision Charges should be levied.

Sample calculations of charges for hiring :-

Name of Equipment	Total Daily Use Rate Rs. D per Day	1.1 D	Hiring Charges for Contractor / Piece Worker after adding 10% Supervision on 1.1 (H)
Mini Hot Mix Plant	5648	6212.8	Rs. 6834.08 Say Rs. 6834
Paver Finisher 40 H.P.	5936	6529.6	Rs. 7182.56 Say Rs. 7183
Asphalt Mixer 7/5 Cft	1688	1856.8	Rs. 2042.48 Say. Rs. 2042

27.3 In case of Minor Irrigation works the terms and conditions for hiring the machinery as stipulated in Government letter No. MNs/1078 (617/78) / MIN-1 of 7-10-78 should be made applicable. However the hourly use rate for Diesel Road Roller may be taken as per the current use rate read with hiring conditions.

27.4 Requisition should come through the Civil Authorities as per the enclosed form.

27.5 Agreement in form No. 587 and other formalities should be completed by the civil authorities.

27.6 The hire charges do not include the following charges which will be extra :-

(a) Transportation of machinery from the Sub-Divisional Head Quarters Garage stores to the work site and back.

(b) Transportation of machinery from one work site to another work site.

(c) Transportation of fuel, Lubricant spares, tools, OMR staff etc. from Sub-Divisional Head Quarter / Garage / Stores to the work site and back.

(d) Transportation of machinery for carrying out major repairs to the nearest workshop.

(e) The charges of watchman to be provided for the machine working at isolated place.

(f) If the machines are required for a period less than a working season the D.A. of crew will be charged extra.

27.7 Quarters for Mechanical staff and workers and shades for parking and reqpirs to machinery and for stores be provided by the project authorities.

27.8 Machinery will be made available on hire to contractors and piece workers, whenever it is possible to do so and as it is available without affection Government works.

27.9 When any machinery is allocated to a work for issue to contractor/piece worker it will be hired out for period of not less than 1 month and the contractor / piece worker will be charged for it for minimum 5 hours utilization in a day when the machinery is available for use being in working condition. If the machine works for more then 5 hours in a day the contractor / piece worker will be charged for the actual number of hours the machine works. Any fraction of an hour over and above 5 hours will be counted as one full hour. If the machine fails after working for some hours the contractor will be charged for the actual number of hours the machine has worked any fraction of an hour being counted as one hour. The machinery will stand issued to the contractor / piece worker for use on the work let out on contract.

27.10 In respect of vehicles such as Trucks, Tippers and Water Tankers the contractor or piece worker will be charged for minimum 5 hours utilization or 96 Kms. as applicable run in a day when the machines are available for use being in working conditions excepts for the machines which are given on hire under condition No. 27.12 mentioned below if the truck, Tipper, Water Tankers fail after working for sometime the contractor or piece worker will be charged for the actual hours / Kms. the machine have worked any fraction of an hour being counted as one full hour if this machines work for more then 5 hours or 96 Kms. in a day, the contractor or piece worker will be charged on hourly or Km. basis (whichever recovery is higher) for actual number of hours / Kms. The machines have worked any fraction of an hour being counted as one full hour.

27.11 When the machinery allocated to a work which is being carried out through several piece-workers and many small contractor, the machinery may stand issued to the local project authority which will be charged for its utilization as per condition 27.9 above and the local proejct authority may issue it to different agencies according to requirements and for such period or time, as the proejct authorities may find expedient and charge them accordingly.

27.12 When machinery is regularly working on a Project on departmental execution of work and some of its is required for a short time for emergency, or casually, not amounting to regular execution of work, by any contractor or piece worker employed on the proejct, it may be hired out for the purpose on hourly / Km. charges, any fraction of any hour being counted a one full hour. The period reckoned will be the time for which the machinery leaves for such a use to the time it returns to the original location. This provision is intended to cover casual requirements of small agencies on proejcts executed departmentally.

27.13 During rainy season, the machines may be hired out on hourly / Km. charges The period of rainy season may be generally taken from 15th June to 30th September.

(J. M. JADHAV)
Chief Engineer (Mechanical)
Water Resources Department, Nashik - 2.

NOTE ON WORKS ABSTRACTS AND REGISTER OF WORKS PREPARATION OF WORKS ABTRACTS

On account of all the transaction related to the work (O, M and R to machinery during a month in respect of cash is to be prepared by the SDO in the form of works. Abstracts From No. 56 PW424), in which the account of the final outlay is kept by sub-heads. The transaction occured in the Sub-Division from 21st of the month to 20th of the next month will appear in the works abstracts. On receipt of the works abstracts in the Divisional Office from the Sub-Divisional Office along with monthly account, the transactions appeared in the Cash Book and Transfer Entry Book of the Divisional Office and stock account submitted by the Sub-Divisional Office will be included in the works abstracts by the Divisional Office.

The expenditure will be booked in the works abstracts by sub-heads as mentioned below:-

B REPAIRS :

(i) B-1 Cost of OEM Genuine Spare Parts, Materials and Batteries.
(ii) B-2 Cost of spare parts, got manufactured.
(iii) B-3 Cost of Tyres, Tubes and Flaps.
(iv) B-4 Sundries (Misc. expenditure relating to repairs)
(v) B-5 Expenditure on jobs done by outside agencies.
(vi) B-6 Expenditure on jobs done by Departmental Workshops.

C RUNNING AND MAINTENANCE :

(i) C-1 Cost of fuel.
(ii) C-2(a) Cost of Lub. Oil and Grease.
(iii) C-2(b) Cost of Hyd. Oil and Brake Oil.
(iv) C-3 Expenditure on Operating Crew.
(v) C-4 Expenditure on Maintenance Crew.
(vi) C-5 Expenditure on labour for Repairs.
(vi) C-6 Sundries (Misc. expenditure relating to R and M)

Credits : The debit memos for the use of machinery are prepared by the Sub-Divisional Officer based on the Hours / Km done and the machinery use rates sanctioned by the Chief Engineer (Mech.). W.R.D., Nashik and they are adjusted in the Divisional office by debit to the works or Division concerned. The credits in this connection will appear under the head Receipts and Recoveries on 'Capital Account'. The transaction of credits mentioned above which are shown as "Receipts and Recoveries on Capital Account" are shown in the works abstracts as under to get the position of difference between the amount worked out at sanctioned rates and actual expenditure on working of machinery.

(i) Running of machinery in Kms. or hours.
(ii) Depreciation.
(iii) Repairs.
(iv) Running and Maintenance.
(v) Total Credits

The monthly totals of sub-heads of work abstracts are then posted in the Register of works in the Divisional Office.

Results : The Resultant position of the machinery showing the difference between the amount worked out at sanctioned rate and actual expenditure is shown in the Register of Works as under :-

1. Repairs : (Credit under repairs minus expenditure on repairs).
2. Running and Maintenance : (Credit under Running and Maintenance minus expendutire on Running and Maintenance)
3. Net Result : (1 + 2)

Depreciation : The Depreciation earned due to use of the machinery in hours / Km. on works (construction of Dams, Canals etc) based on the hourly / K.M. rates depreciation is credited to the capital account of the machinery and debited to the works.

REGISTER OF WORKS DEBIT SIDE

Name of the group of the Machinery

Month	B1	B2	B3	B4	B5	B6	B	C1
	Expdr. on OEM Genuine Parts Materials & Batteries	Cost of Spare Parts got Manufac-tured	Cost of Tyres, Tubes & Flaps	Sundries	Expdr. on Jobs done by outside agencies	Expdr. on Jobs done by Deptt. Work-shop	Total Expd. on Repairs	Cost of Fuel
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.

REGISTER OF WORKS DEBIT SIDE

Estimted Plant Hrs. of the group Amount of Sanction estimate Rs.

C-2(a)	C-2(b)	C-3	C-4	C-5	C-6	Total Expendi-ture on R & M 'C'	Expendi-ture on OM & R (B+C)	Signaure of Executive Engineer
Cost of Lub Oil & Gease	Cost of Hyd. Oil & Brake Oil	Experidure on Operating Crew	Expendure on Mainte-nance Crew	Expendure on Labour for Repairs	Sundries			
10	11	12	13	14	15	16	17	18
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.

REGISTER OF WORKS CREDIT SIDE

Month	Kms. Run	Hours Worked	Depreciation	Repairs	R and M	Total Credits
19	20	21	22	23	24	25
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.

REGISTER OF WORKS CREDIT SIDE

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

REQUISITION FOR THE MACHINERY

Name of work on which machiney 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 accepteable.

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