

कायलिय प्रमुख अभियन्ता, उत्तर प्रदेश,
लोक निर्माण विभाग,
1 डि०/या०/१ वर्ष

File No. 117/54

क्रमांक: 315/म

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लखनऊ: दिनांक 2 फरवरी: 94

कार्यालय - गाँव

भारत सरकार, जल, भूतल परिकहन मन्त्रालय, नई दिल्ली

पत्रांक-2401/15/१३आर.एम.पी., दिनांक 30 दिसम्बर 1993। प्रति संलग्न।
के द्वारा केन्द्र की मशीनों के द्वारा चार्ज की गणना के लिये निर्मित पत्रों की
इकोनामिक लाइफ का निर्धारण किया है।

उपरोक्त नार्मल लोक निर्माण विभाग की मशीनों के द्वारा चार्ज की
गणना के लिये भी मान्य होंगे।

डी.के. गुप्ता
प्रमुख अभियन्ता

प्रतिलिपि निम्नलिखित को सुकायी एवं आया ककार्यवाही हेतु प्रेषित:-

- 1- समस्त क्षेत्रीय मुख्य अभियन्ता, लो०नि०वि०, उ०प्र०
- 2- निदेशक, अन्वेषण लो० निर्माण विभाग, लखनऊ
- 3- समस्त अधीक्षण अभियन्ता, सिविल/ डि०/या० लोक निर्माण विभाग, उत्तर प्रदेश
- 4- समस्त अधिशासी अभियन्ता, डि०/या० / कार्य अधीक्षक डि०/या० लोक निर्माण विभाग, उत्तर प्रदेश

संलग्नक:- उपरोक्तानुसार।

स 8163/25 अ०/१८-दि. ५/५/९३

उपरोक्त की प्रतीति मिले की संलग्नक संलग्न

क्रमांक 2401

लखनऊ 15/१५/१८/११/३४/८३/५९

क्रमांक 2401

संलग्नक - उपरोक्तानुसार

संख्या 465

1.2.13-13/94 दिनांक

18/3/94

मल्लिकार्जुन/१३ कार्य/१३/१५/१८/११/३४/८३/५९
मल्लिकार्जुन/१३ कार्य/१३/१५/१८/११/३४/८३/५९

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Government of India
Ministry of Surface Transport
(Roads Wing)

2100.14

'Transport Bhawan'
No.1, Parliament Street,
New Delhi, dt. the 30th Dec 1993

No. RW-24011/5/93-RMP

1. The Secretaries,
(dealing with National Highways),
P.W.Ds of all States and U.Ts.
2. Director General (Works),
C.P.W.D.,
Nirman Bhawan,
New Delhi-110 011.
3. The Secretary,
Border Road Development Board,
Sewa Bhawan,
New Delhi-110 001.

Sub: Revision of norms of economic life of Road/Bridge
construction machines belonging to this Ministry.

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Sir,

I am directed to say that Ministry vide letter No. RM-21(3)/75 dated 4th June, 1976 had intimated to the States the calculation procedure of hire charges of Central machinery, under which the economic life of machine to be adopted for calculation purpose was enclosed. It has been experienced that the prescribed working life of road making machines could not be achieved due to various reasons.

2. Subsequently matter was referred to the "Standing Committee of Senior Mechanical Engineers in the Highway Sector". The recommendations made by the members of Standing Committee were discussed in detail in the meeting held at Guwahati in May 1993 and economic life of various machines have been finalised.

The recommendations of the Standing Committee have been examined in this Ministry and it has been decided that for Ministry's machines available in the States, economic life for condemnation of Central machines will be as indicated below :-

- (a) The economic life of Road/bridge construction machines may be adopted as per attached Appendix 'I'. The life achieved either in years or kms/hours whichever is later will be taken for condemnation purpose of central machines available in respective States/U.Ts.
- (b) The formula shown in Appendix II may only be adopted for exceptional cases for calculation of average life of machines, which are of obsolete model and for which spares are not readily available and if their further repairs are considered not economical.

Contd.....2

APPENDIX I

ECONOMIC LIFE OF ROAD/BRIDGE CONSTRUCTION EQUIPMENT

S.No.	Name of Machine	Years	Kms/Hrs
I. BITUMENOUS CONSTRUCTION EQUIPMENT			
1.	Hot Mix Plants (below 20 TPH)	12	2000 hrs.
2.	Hot Mix Plants (above 20 TPH)	12	2000 hrs.
3.	Drum Mix Plants	12	2000 hrs.
4.	Paver finisher	15	2000 hrs.
5.	Bitumen Boilers	10	-
6.	Bitumen Pressure Distributor/ Bitumen Transportation Tanker	12	2000 hrs.
7.	Bitumen Storage Tank	10	-
8.	Asphalt Mixer	12	8000 hrs.
9.	Front End Loader (Wheeled)	15	9000 hrs.
10.	Tipper	12	2,40,000 km.
11.	Chip Spreader	10	-
II. HEAVY EARTH MOVING EQUIPMENT			
1.	Dozer Wheeled	15	2000 hrs.
2.	Dozer Crawler	15	2000 hrs.
3.	Motorised scraper/Towed scraper	15	2000 hrs.
4.	Motor Grader	15	2000 hrs.
5.	Excavator upto 1 cum	12	1000 hrs.
6.	Mobile Crane	15	3000 hrs.
7.	Dumper (all size)	12	10000 hrs.
8.	Tractor (Wheeled)	12	10000 hrs.
9.	Grab Dredging Cranes	12	2000 hrs.
III. COMPACTION EQUIPMENT			
1.	Road Roller 8-10 T	15	12000 hrs.
2.	Sheepfoot Roller	15	-
3.	Vibratory Rollers upto 2 tons WT	10	-
4.	Vibratory Rollers above 2 tons WT	12	10000 hrs.
5.	Tandem Vibratory Roller 8-10 T	12	10000 hrs.
6.	Pneumatic Tyred Rollers	12	10000 hrs.

(c) The proposed revised life may be taken into account for working out hire charges of new equipment.

(d) This circular takes effect from 1.1.1974.

Yours faithfully,

Sd./

(R. L. KCUL)

Deputy Secretary (P&B)

Encl: As above.

Copy alongwith enclosures forwarded for information and necessary action to :-

1. The Chief Controller of Accounts, MOST, IDA Building, Jamnagar House, New Delhi.
2. The Director General, Border Roads, Kashmir House, New Delhi.
3. All State Chief Engineers (dealing with National Highways).
4. All ROs/ELDs, Ministry of Surface Transport (Roads Wing).
5. All S.Es (Mechanical) in the Regional offices.
6. All Technical Officers in the Roads Wing.
7. All the members of Standing Committee of Sr. Mechanical Engineers in highway sector.
8. This is in reference to item 3 of the minutes of the 7th meeting held at Guwahati.
8. Library.
9. NITHE.
10. I.R.C., New Delhi.
11. C.O(I) (10 copies).
12. Finance Wing (TF-II) with reference to their U.D. No. 1176/TF-II/93 dated 16.12.93.

Sd./-

(R. L. KCUL)

Deputy Secretary (P&B)

S.No.	Name of Machine	Years	Km/Hrs.
IV	BRIDGE CONSTRUCTION EQUIPMENT		
1.	Bridge Inspection Unit	15	-
	(a) Bucket type	18	-
	(b) Platform type	15	8000 hrs.
2.	Power Winch	6	-
3.	Concrete Mixer	12	8000 hrs.
4.	Pile Driving Set	12	8000 hrs.
5.	Diamond Core Drill pm/c	12	8000 hrs.
6.	Vibrators (all types)	5	-
7.	Air Compressors	12	2000 hrs.
8.	Pumping Set Diesel (upto 10 HP)	8	-
9.	" " " (above 10 HP)	12	10000 hrs.
10.	Weigh Bridges	12	-
V	GENERAL PURPOSE		
1.	Truck	12	2,40,000 km
2.	Stone Crusher/Granulator (Electrical)	15	12000 hrs.
3.	Stone Crusher/Granulator (Diesel)	12	10000 hrs.
4.	Generator Set	12	10000 hrs.
5.	Diesel Welding Set	15	10000 hrs.
6.	Jeep/Car/Station Wagon/Mini Bus	10	2,00,000 kms
7.	Ferry-Boats- Steel	15	-
8.	- Wooden	10	-
8.	Kerb Laying Machine	12	-
9.	Concrete Transit Mixer	12	10000
10.	Concrete Pump	10	-
11.	Concrete Batching & Mixing Plant	15	12000
12.	Concrete Paving Equipment	15	12000
13.	Stone Crushing & Screening Unit	10	10000
14.	Snow Cutter/Plougher	20	-

APPENDIX II

FORMULA TO BE ADOPTED FOR CONDEMNATION OF ROAD/BRIDGE CONSTRUCTION MACHINES

- i) Recommended life of machine - X Hours/Kms.
- ii) Cumulative life actually achieved by the machine - A Hours/Kms.
- iii) Recommended life of machine in years - Y Years.
- iv) Number of years the machine is old (taking year of purchase into consideration) - B Years.

Then life for condemnation

$$\frac{\frac{A}{X} + \frac{B}{Y}}{2} \times 100$$

Say 77

Note: If life calculated as per above formula is more than 100% the machine may be considered for condemnation.