2200-17

Dated, the 24th June, 1994

No.RW-20015/3/91-RMP

То

The Secretaries of State PWDs and Union Territories (dealing with National Highways), Director General (Works), Central Public Works Department; Secretary, Border Road Development Board

Subject: Fixation of norms for working out hire charges of important road construction equipment

It is observed that norms for working out hire charges of various road construction equipment vary from one State to another. In order to have a uniform pattern for working out the hire charges of road construction equipment, the issue was discussed in the meeting of Standing Committee of senior Mechanical Engineers in the highway sector who had entrusted this work to a sub-committee. The sub-committee submitted a report to the main committee after examining the various details received from different States on this subject. The report of the sub- committee was again discussed in the 7th meeting of the Standing Committee held at Guwahati from 12-14 May, 93. The committee recommended that the norms for working out hire charges of the machines should be the same as adopted by the Ministry (Appendix IV* enclosed with the minutes of the meeting sent to you vide Ministry's letter of even number dated 27.7.93) with slight modifications as indicated below:

- 1. The operational (repair) charges should be 150% of the cost to be depreciated spread over the economic life of the equipment (which do not possess tyres/erawler).
- 2. The operational (repair) charges should be 175% of the cost to be depreciated spread over the economic life of the equipment (which possess tyres/crawlers).
- 3. Ownership and operational charges of all the equipment should be revised periodically say after 3 years.

In view of the above, it is suggested that all State Governments may adopt the same norms as recommended by the committee.

* Copy of Appendix-IV issued with letter of even number dated 27.7.93 is enclosed.

Appendix-IV

Enclosure to Circular No.RW/20015/3/91 RMP dated, 24th June, 1994

SAMPLE CALCULATION OF HIRE CHARGES/USAGE RATE OF MACHINERY

For Equipments Used Departmentally 1.

Ownership Charges I.

	(A)	Total investment at site of work (this includes A/T cost, sales tax, excise, custom and other duties, transport expenses consisting of freight (by ocean & rail), insurance loading/unloading charges and erection and commissioning on receipt.						
	(B)	Deduct slavage value @ 15% of (A)						
	(C)	Total investment to be depreciated = $(A) - (B)$						
	(D)	Economic life of the machine in hours $=$ hrs.						
	(E)	Depreciation per hour		=	<u>(C)</u> (D)	Rs.		
	(F)	Storage charges per hour (1 per ce of 'C' spread over the economic life)	nı	=	0.01 × Rs.	. <u>(C)</u> (D)		
		Total Ownership charges		=		F) = Rs. I		
H.	Operat	ional Charges						
	(G)	Repair charges per hour including maintenance and replacement of ty (150 per cent of 'C' spread over		=	1.5 x			
	0	economic life)		=	Rs.	II		
II I .	Overhe	ead Charges						
	@ 5 per charges	r cent of ownership and operational	=	$\frac{5}{100}$	(I +I J)			
	Owners	thip charges per hour	=		Rs.	III		
	Operati	onal charges per hour	=	Rs.				
	Overhe	ad charges per hour	=		Rs.			
IV.	Running Charges							
	Operat	ing staff/labour & wages						
		Designation	No.		Wages/month			
	i) ii) iii) iv) v)	Operator Helper Cleaners Misc. expenses Overtime, etc.						
	(H)	Wages per hr [See note (d)]	=	Total wages per month 1500				
			=	Rs.				

(I) Servicing Charges

			•								
			Designa	ition			No.			Expenditure	
		i)	Mechan	ic							
		i) ii)	Cleaner								
		iii)	POL				Total			Rs.	
	(J)	es									
			Fuel Lu	ubricant	ts etc.						
			consum	ption/hr	ſ		Rate/lit			Cost/hr	
		i)	Fuel								
		ií)	Lubrica	nt							
		iü)	Grease								
		iv)	Hyd. oil								
		v)	Gear oil								
			waste, e								
		vi)	Furnace (in case		ix plants	, etc.)	Total				
	(K)	Cost of	lub. oil, f	fuel etc.,	hr.						
	(L)	Total ru	mning cl	narges p	er hr. =	H+J+K	=				
7)			es @ 5 p	er cent (of the tot	al	=	5	хL		
	charges	per hou	r								
	Summin	g up:									
	Owners	nip charg	es				=	I	=		
		onal charg					=	ÎI	=		
		d of I and					=	ÎII	Ŧ		
			[as in (5)]			=	ĪV	=		
	Overhea	d charge:	s on IV				=	v			
		Hire cha	irges per l	hour = J-	+1]+1][+1]	V+V					
Note:		ndicated a								ach machine, on va n be fixed assumir	
	(a)	For Imp	orted Equ	ipments	only						
	i) c.i.f. cost = (F.A.S. or F.O.B. cost) cost of machine for ocean freight.						+ 10%				
			COSLOLI	liacinite		incigii.					
		ìi)	Custom	duty and	l clearanc	æ charges		=	35 per c 10 per c	ent of c.i.f. value ent custom duty ent regulatory d nt clearance cha	+ uty +
			_		_						
	(b)	i)	Diesel c	onsumpl	ion =	(60 per 0	Load Fa cent) x L H.P. hou	Bs. of]		
		ii)	Lubricat	ting oil	=	<u>H.P. × 0</u>	.6 x 0.00 1.4	$\frac{6}{1} = \frac{C}{1}$	-		
			Where	C l	= =				x H.P. in 00 hours.	gallons	

(

(V)

- (c) The other lubricants, grease, Hyd. oil, gear oil, cotton waste, etc. may be assumed to cost twice the cost of lubricant oil in case of heavy machinery. In case of rest, it is to cost same as lubricant oil.
- (d) Wages of operating staff.

Although the staff will be paid for the whole year, for calculating hourly wage rates of the staff, total wages of one year should be divided by actual working hours per year.

In the above formula uniform depreciation has been assumed for the machines fitted with tyres. As the tyres are costly and wear out fast, separate depreciation can be worked out for the tyres and machines.

(2) For Equipment given to Contractors & Outside Agencies :

When the machines are issued to contractors, interest and insurance charges @ 10 per cent of average investment per year will be calculated as under and added.

	Α	60*	10			
=			<u> </u>	Ξ	Rs.	*on 5 years life.
	1500	100	100			_

(M) Interest and Insurance Charges per Hour :

Therefore the total charges in that case would be as follows :

Ownership charges (E+F+H)	-	I
Operational charges	=	II
Running charges	=	IV
Overhead charges @ 5 per cent of the	=	5 (I+II+IV)
total charges per hour		100 say V
Hence hire charges per hour	=	I+II+IV+V