#### 2400/1

2400.1.

Dated the 27th April, 1963

NO. LRM-1 (2)/66

To

The Addl. Chief Engineer (Roads), PWD (B&R), Lucknow, U.P. The Addl. Chief Engineer (East), L.R.P., P.W.D. (B & R), Bihar, The Addl. Chief Engineer (West), L.R.P., P.W.D. (B & R), Bihar, The Addl. Chief Engineer, L.R.P., P.W.D., West Bengal, The Addl. Chief Engineer & Secretary, P.W.D. (R & B), Assam.

Subject : Basic records of construction equipment in Lateral Road Project

A substantial quantity of costly construction equipment is being procured for use in the Lateral Road Project. In any large scale operation of construction equipment it is essential to have a minimum number of basic equipment records. These records serve a variety of purposes, the more important of which are :

- (a) to lay down a well planned system of operation, maintenance, repairs and overhaul.
- (b) to provide a continuous record of the condition of equipment so that repairs can be planned in advance, and the capacity of equipment for future use can be estimated.
- (c) to reveal useful statistics on performance and unit rate for objective review and also for use in future estimations.

2. It is suggested that two basic documents viz. Driver's Log Book and History Book for each item of construction equipment may be maintained.

3. Five specimen copies of these two documents are enclosed herewith. Suitable dimensions have also been shown for the various columns in the specimen copies. To ensure uniformity these documents may be got printed to the same size according to dimensions given in the specimen in a book form with the card board/rexins cover.

4. Each equipment would have two Drivers' duty Log Books-One for even months with a green cover and the other for odd months with a yellow cover. When one of the two Log Books is submitted to Divisional Office for scrutiny at the end of the month, the other Log Book would be in use during the subsequent months. At the end of each month an abstract of operating hours and P.O.L. consumption would be prepared from the Log Book and posted in the History Book in the section "Monthly Data". Abstracts of output, consumption of stores, operating hours, idle hours, sickness hours etc. can then be made out for working out the unit rates.

5. Whenever equipment is transferred, it would be accompanied by the Driver's Duty Log Book and History Book duly completed. The officers handing over and taking over should sign in the section "Record of Transfer of Machine" in the History Book.

6. In veiw of the importance of having a permanent record of basic statistics, Hisotry Books should be kept in duplicate. The original History Book would remain in the custody of the Division maintaining and operating the equipment and the duplicate copy in the Chief Engineer's Office. It is suggested that every 3 months an Officer from Chief Engineer's Office may go round the work sites and get the duplicate copy brought up-to-date. Alternatively the History Books could be called from the Field Divisions for posting the duplicate copies in the Chief Engineer's office.

7. It is requested that necessary action may please be intimated to introduce these documents on the lines as above at the very earliest.

## GOVERNMENT OF INDIA MINISTRY OF TRANSPORT & AVIATION DEPARTMENT OF TRANSPORT SHIPPING & TOURISM (ROADS WING)

#### LATERAL ROAD PROJECT

## HISTORY SHEET

#### NOMENCLATURE OF MACHINERY/EQUIPMENTS :

PLANT NO. :-

## INDEX

SL Na	Details	Pages
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2	Particulars of Equipment	2 - 3
3.	Record of Tyres	4 - 10
4.	Alterations, Additions & Modifications	11 - 13
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#### COMPONENT MAIN ASSEMBLIES

(Where different manufacturer's assemblies are mentioned, full details with manufacturer's number should be furnished)

	Name of Assembly	Make	Model	Voltage	SL No.	Any other information
1.	Fuel Injection Equipment					
2	Generator					
3.	Starter Motor					·
4.	Torque Convertor					
5.	Hydraulic System					
<b>6</b> .	Air Compressor					
7.	Turbo-Charter					
					·	

8. Any other information :

## PARTICULAR OF EQUIPMENT

- 1. Brief description of machine :
- 2. Dimensions : Overall length : Overall width : Weight of equipment : Transportation weight :
- 3. Project Indentification No :
- 4. Date of receipt/purchase :
- 5. Supply Order No. :
- 6. Name of supplier and bill details :

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7.	Total	cost at site :							
8.	Nam	e of manufact	urer :						
9.	Man	ufacturer's ma	ike		Model	Sr. No	·		
10.	Capa	city/Pay load	/Draw Bar P	u <b>ll :</b>					
	Speed Reve		f Gear	II Geau	r III	Gear	IV Gear	V G	ear
11.	Engi	ne details :							
	(i)								
	(ii)	Model:							
	(iii)	Sr. No. :							
	(iv)	Туре :							
		H.P. :							
	• •	No. of Cyl. :							
		Bore & Strol							
		R.P.M. :							
12		Engine Detai	ls :						
	(i)	Make :							
	(ü)								
	• •	Sr. No. :							
	• •	Туре:							
	• •	H.P. :							
		No. of Cyl. ;							
		Bore & Strol							
	• •	R.P.M.							
	• •	Sizes :							
	Lyic		•		No Fitted		Inflati	on Pr	
		Rear	·		No. fitted		Inflatio	on Pr	
	Batte	ry:							
		•			No. of Plater	·	Vo	ltage	
	List o	of tools receive	d with equip	ment :					
					4 to	10			
					RECORD	OF TYRES			
Туге	s Front								
		Size .			Ply		No. fitted		
-	s Rear								
I VIC									
lyre									
•	change	5							
Tyre	change		S- No.		Character			Parson	Simoture
Tyre		S Tyre size	Sr. No. 4	& Make	Changed/i	repaired to SR N	0. & Make	Reason	Signature
Tyre	change		Sr. No. 4	& Make			0. & Make	Reason	Signature
Tyre	change		Sr. No. o	& Make	Changed/i il-		0. & Make	Reason	Signature
Tyre	change		Sr. No. (		l			Reason	Signature
Tyre Da	ate	Tyre size		ALTERATI	Í I-	-13 ONS & MODIFI	CATIONS		
Tyre Da	change	Tyre size	Sr. No. o	ALTERATI	l	-13 ONS & MODIFI			Signature 2 Signature
Tyre Da	ate	Tyre size		ALTERATI	Íl- IONS, ADDITH Cost	-13 DNS & MODIFI Resasons fo	CATIONS		
Tyre Da	ate	Tyre size		ALTERATI	Í I-	-13 DNS & MODIFI Resasons fo	CATIONS		
Tyre Da	ate	Tyre size		ALTERATI	il- IONS, ADDITH Cost	-13 DNS & MODIFI Resasons fo	CATIONS		
Tyre Da Da	ate	Tyre size Details	of work carr	ALTERATI	il- IONS, ADDITH Cost I4 RECORD (	-13 ONS & MODIFI Resasons fo DF REPAIR	CATIONS r alterations	Authority	2 Signature
Tyre Da	ate	Tyre size	of work carr	ALTERATI	il- IONS, ADDITH Cost	-13 ONS & MODIFI Resasons fo DF REPAIR	CATIONS		2 Signature
Tyre Da	ate	Tyre size Details	of work carr	ALTERATI	il- IONS, ADDITH Cost I4 RECORD (	-13 ONS & MODIFI Resasons fo DF REPAIR	CATIONS r alterations	Authority	2 Signature
Da	ate	Tyre size Details	of work carr	ALTERATI	il- IONS, ADDITH Cost I4 RECORD (	-13 ONS & MODIFI Resasons fo DF REPAIR Approx. Oil (	CATIONS r alterations	Authority	2 Signature
Da Da	ate	Tyre size Details	of work carr	ALTERATI	il- IONS, ADDITH Cost I4 RECORD ( /Mile Run AND REPL	-13 ONS & MODIFI Resasons fo DF REPAIR Approx. Oil (	CATIONS r alterations	Authority	2 Signature

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Month	No. of Hours/	Progessive total hours	[	P.O.L. Consumption				
_	mile worked		Diesel Oil	Petrol	Engine Oil	Other lubricants		
			56-63					
		REC	CORD OF WIRE	ROPE				
	Description		Specification			Length fitted		
HOIST		· - ! ·						
Derrick/S	uspension							
Back haul	& digging					<u> </u>		
Tripping		<u> </u>						

# 54-55 MONTHLY DATA

#### WIRE ROPE CHANGES

Date	Description	Approx. hrs./miles worked after last change	Probable cause of breakdown	Signature
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64-68

## BATTERY CHANGES RECORD

Date	Work done (Replacement/ Repair/Charging)	Hours worked	Reasons for Replacement/ Repair/Charging	Signatures
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-70

### RECORD OF TRANSFER OF MACHINE

Date of transfer	From	То	Hours used	Present cost	Remarks	Sig. of Officer	
						Handing over	Taking over

## 71-75

## NOTES

## LATERAL ROAD PROJECT

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# DRIVER'S DUTY LOG BOOK

Nomenclature of Machine

Plant No.

#### INDEX

SL No.	Details	Pages
1.	Particuals of equipment	1-2
<b>2</b> .	Driver's duty log sheet	3-103
3.	Notes	104-109•

# PARTICULARS OF EQUIPMENT

		FARTICULARS OF EQUIPMENT		
1.	Brief description of Machine :			
2.	Dimensions :			
	Overall length :			
	Overall width :			
	Weight of equipment :			
	Transportation weight :			
3.	Project indentification No. :			
4.	Name of manufacturer :			
5.	Manufacturer's Make	Model	Sr. No	
6.	TYRE SIZES :			
	Front	No. fitted	Inflation PR	
	Rear	No. fitted	Inflation PR	

7. Battery size, No. of plates & Voltage Capacity :

8. List of tools received with equipment :

3-103

## DRIVER'S DUTY

Date	Shift	Driver's name		-	Other materials		
			Petrol	Diesel	Engine oil	Other lubricants	

103

### LOG SHEET

Signature of issuer	Hour meter/Milometer Reading		Details of work done	Signature with designation of the officer of using Deptt.	Remarks
	From	То			

104-109

NOTES