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No. RM-24 (8)/78

Dated the 17th May, 1978

To

1. The Chief Engineer, National Highways, Andhra Pradesh PWD (B&R)
2. Chief Engineer, Assam PWD (B&R)
3. Addl. Chief Engineer, National Highways, Bihar PWD
4. Chief Engineer (Roads) Haryana PWD
5. Chief Engineer, National Highways, Madhya Pradesh PWD
6. Chief Engineer & Joint Secretary (National Highways), Public Works & Housing Department, Govt. of Maharashtra
7. Chief Engineer, National Highways, & Projects, Orissa
8. Chief Engineer, Punjab PWD
9. Chief Engineer (Roads) Rajasthan PWD
10. Chief Engineer, National Highways, Tamil Nadu
11. Chief Engineer, National Highways, PW (Roads) Directorate, West Bengal

Subject : Establishment of additional workshops for repair and maintenance of Central machines used for execution of Central/NH works

For quite some time, this Ministry have been pursuing with Ministry of Finance and Planning Commission, a proposal for augmenting the workshop facilities required for repairs and maintenance of Central equipments deployed for execution of Central/NH works. In this proposal, the requirement of Divisional/Central Workshops was assessed, assuming that after 2-3 years of use, depending upon the extent of utilisation, it is essential to carry out major/medium repairs in every machine. Thus, approximately, 30% of the equipments will need repairs facilities in the Workshops every year. It was also assessed that for every 200 numbers of road construction equipments, one Divisional/Central Workshop is essential.

In the Divisional Workshop, jobs like top overhaul of engine, replacement of assemblies/parts, adjustments of various components, welding jobs, manufacture of certain categories of nuts, bolts, bushes etc. servicing and maintenance of equipment, charging of batteries, retreading of tyres etc. will be carried out.

In Central workshops all types of repair jobs, like major overhauls/repairs, re-clamation/reconditioning of worn out parts, repairs of fuel injection pump, dynamos, self-starter, various machining

jobs, painting/numbering etc. would also be undertaken besides the jobs mentioned against the Divisional workshop in the above para.

While assessing the requirements of workshops, it was considered essential to provide Divisional/Central Workshops for certain States, even when the population of the equipments is less than 200, due to other reasons, like topography and strategic location of the State, types of equipments, and for providing minimum repairs facilities etc.

2. The details of workshop machinery decided to be provided in Divisional and Central workshops, along with their approximate cost are enclosed herewith. The cost of a Divisional Workshop works out to Rs 4 lakhs (Rs 1 lakhs for workshop machinery and Rs 3 lakhs for sheds/buildings). The cost of Central workshop is Rs 5 lakhs (Rs 3 lakhs for machinery and Rs 3 lakhs for building/sheds etc.). It has been assumed that these workshops would be established on PWD/Govt. land, so as to restrict the capital cost to the barest minimum.

3. Taking the above into consideration, it has been proposed to establish-Nos. workshops in your State.

4. Expenditure Finance Committee, to whom the proposal was submitted, has pointed out that the facilities already available with the Public/Private Sector should also be availed off by the States, as it was essential to utilise fully the investments already made. The Committee had agreed in principle for the necessity of setting up of these workshops but has directed that before final clearance for execution of the proposal is given, the location of the workshops should be identified, and cost firmed up, in consultation with the State Governments. The costs as re-cast are required to be presented to the Ministry of Finance and their approval sought in due course.

5. The information asked for by Expenditure Finance Committee may please be supplied by you immediately, complete in all respects so that a consolidated reply may be furnished to them, at an early date but positively by 30th May 1978. The information should include consideration on the following :

(a) Location of the Workshop proposed to be allocated to your State

The proposed workshop should be located on available Government land already acquired, and at such a place in an area where there is concentration of Central equipments. Moreover, the location of the proposed workshop should be away from such places where State/Public Sector workshop facilities are already existing and can be made use of. The place should also be well connected by rail/roads. The justification to arrive at this decision of location may also be indicated.

(b) Estimate

The cost of Central/Divisional Workshop and Workshops machinery considered to be provided has already been estimated taking into consideration that these are only repairs/Maintenance workshops and not meant for manufacturing purposes, where very costly and sophisticated workshop machinery to manufacture items to very close tolerance may be required. It is requested that a detailed estimate for the sheds/buildings and workshop machines, within the prescribed financial limits may be prepared and submitted to the Ministry. It is suggested with regards to sheds/buildings, that there can be 8-10 bays under one roof in all, with concreted flooring. Out of these, two or three bays may be fully covered from all sides and provided with doors and windows, to be used as machine-shop and stores room. 2 or 3 bays may be used for carrying out repairs of engines/assemblies etc. The remaining bays can be utilised for keeping the stripped machines awaiting assembly after repairs of various components like engine, differential, gear box etc. There may be sufficient open area for parking the machines, before and after the repairs. A lay out of the workshop with details of location of various workshop machines etc. may please be sent to the Ministry and Ministry's Regional Office.

6. The requisite establishment for running the workshops efficiently is to be created by State PWD themselves, as already done for earlier established workshops.

7. Initially workshop expenses for staff wages, POL etc. are to be kept under suspense account through the job cards to be maintained by state PWD. These are subsequently to be debited to the repairs/maintenance estimates of equipments, on the basis of quantum of repair work carried out and the number of man-hours/POL utilised on the equipment, concerned. The repairs/maintenance estimates which include provisions for such workshop expenses, are being sanctioned by the Ministry against "Repairs & Maintenance" grant of machinery.

8. In case, spare capacity is available, the machine purchased against Central loan assistance and State owned machinery may also be got repaired on appropriate charges.

9. The receipt of the letter, may please be acknowledged. It may be ensured that the information called for in para (5) (a) & (b) above is submitted to the Ministry at the earliest but positively by 30th May, 1978.

APPENDIX I

DETAILS OF WORKSHOP MACHINERY REQUIRED FOR EACH CENTRAL WORKSHOP

Sl. No.	Name of Machinery	Capacity	Qty.	Cost
1.	Lathe 10" Center	8' bed length	1 No.	40,000
2.	Drilling m/c pillar	1" capacity	1 No.	10,000
3.	Hacksaw m/c	9" capacity	1 No.	4,000
4.	Tool Grinder (Electric double wheel pedestal)	6"	1 No.	2,000
5.	Arc, Welding Plant with accessories	400 Amp. 440 Volt	1 No.	12,500
6.	Gas Welding & Cutting set comp. with oxygen. Acetylene cylinders with tools		1 No.	5,000
7.	Battery Charger set 6 Nos.-12 volt Batteries		1 No.	3,000
8.	Air compressors with accessories 60 cuft/min		1 No.	8,000
9.	Vulcanising equipment		1 No.	2,000
10.	Car washer m/c with water pump and double gun with hose pipe		1 No.	8,000
11.	Servicing Ramp (cement) and brick mortar constn.		1 No.	2,000
12.	Nozzle Tester		1 No.	1,000
13.	Cylinder boring and honing m/c with attachments		1 No.	75,000
14.	Fuel pump testing and calibration m/c		1 No.	1,00,000
15.	Valve seat cutter complete with cutters		1 No.	3,000
16.	Valve refacer		1 No.	3,500
17.	Portable drill & Grinder Heavy duty		1 No.	4,000
18.	Spray Painting Gun with hoses		2 Nos.	1,000
19.	Chain Pulley Block 5 Tons		1 No.	4,000
20.	Travelling Jacks 10 Ton cap.		2 Nos.	2,000
	Hydraulic Jacks 10 Ton cap.		2 Nos.	2,000
	Heavy duty tool kit including box spanners, ring spanners, double and spanner sets, hammers 2 & 5 lbs., assorted filed 8" to 14" Torque wrenches, bench-vice, feeler gauges, Tachometer, micrometer valve lifter, stud puller, compression gauge, cylinder gauge			15,000
				3,05,000
	Workshop shed, office room, store shed compound wall etc. including land			3,00,000
		Total		6,05,000
		Say Rs		6,00,000

Types of jobs to be attended to in the above Central workshop

1. Major Repairs/overhauls.
2. Reclamation of reconditioning and rebuilding of worn out parts.
3. Manufacture of certain categories of scarce items of spares and components.
4. Repairs/overhauls of components like fuel pump, crank shafts etc.
5. Painting and numbering of equipments.

DETAILS OF WORKSHOP MACHINERY REQUIRED FOR EACH DIVISIONAL WORKSHOP

Sl. No.	Name of machinery	Capacity	Qty.	Cost
1.	Lathe 8" Center	1 No.	6' bed length	25,000
2.	Drilling machine pillar	1 No.	1"	10,000
3.	Tools Grinder (Electric) double wheel	1 No.	6"	2,000
4.	Arc welding Plant with Accessories	1 No.	400 Amp 440 Volts	12,000
5.	Gas welding & cutting set complete with Oxygen Acetylene cylinders, with tools etc.	1 No.		5,000
6.	Battery charger set	1 No.	6-12 Volts Battery	3,000

2800/4

7.	Air compressors with accessories	1 No.	60 cuft	3,000
8.	Vulcanising Equipment			2,000
9.	Car washer m/c with water pump and double gun with hoze pipe (Teccalmiter equivalent make)			8,000
10.	Servicing Ramp (Cement and brick mortar constn.)			2,000
11.	Nozzle Tester	1 No.		1,000
12.	Chain pulley Block with Tripod, derrick 3 Ton	1 No.		3,000
13.	Heavy duty tool kit, comprising of box spanner, ring spanner, double and spanner sets, hammers 2 & 5 lbs. assorted files 6' to 14" Torque wrenches, guages, bench-vice, feller guage, thread guages, pullers valve lifter, stud puller hydraulic jack			9,000
				<hr/>
				1,00,000
*contingencies @ 3%				3,00,000
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Total				4,00,000
Say Rs				Rs 4 lakhs
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Types of jobs to be attended to in the above Divisional Workshop

1. Servicing and maintenance
2. Adjustment of various components
3. Replacement of assemblies and parts
4. Top overhaul of engine
5. Various welding jobs
6. Battery charging
7. Vulcanising of tubes
8. Manufacture of certain categories of belts and nut bushes and other scarce of items of spares