DIESEL LOCO SHED, KAZIPET.

1.0 BRIEF OF THE SHED:

The shed was opened on 21st April, 1973 with a fleet of 30 WDM2 locos and Grown up to present Loco Holding of 145 locos of different types of Diesel Locomotives. Diesel Loco Shed, Kazipet is certified for ISO-9001-2000.

2.0 ACTIVITIES OF DIESEL LOCO SHED, KAZIPET:

Maintenance of WDM-2, WDM3A, WDG3A Types.
Yearly schedules of PSU (NTPC/MSEB) locos under deposit works.
Maintenance and operation of 140T BD Crane.
Maintenance and operation of ART (MFD re-railing equipment).
Diesel Traction Training Centre for imparting training to Running Staff as well as Maintenance Staff.

3.0 OFFICERS SETUP:

Name (S/Sri)	**Designation**
D. Nageswara Rao	Sr.DME/DSL/KZJ
S. Satyanarayana Reddy	DME/DSL/KZJ
N.V. Venkata Kumar	ADME/DSL/KZJ
V.Anantha Rao	ADME/DSL/KZJ
P. Ashok Kumar	ACMT/DSL/KZJ
R. Nagabhushan Rao	SMM/DSL/KZJ

4.0 LOCO HOLDING:

Type of locomotives	**No. of Locomotives**
WDM3A	33
WDG3A	96
WDM-2 (over-aged)	16
Total	**145**

5.0 STAFF STRENGTH:

Description	**Sanction**	**Actual**	**Vacant**
Supervisors	87	52	35
Artisans	680	585	95
Group ‘D’	105	79	26
Ancillary	48	36	12
Ministerial (NP+P)	45	32	13
Others	54	39	15
Total	**1019**	**823**	**196**

6.0 PERFORMANCE AT A GLANCE:

Parameter	Target/ Actual	2008-09	2009-10	2010-11
Outage	Target	79.93	80.49	81.04
	Actual	87.64	89.15	91.56
Ineffective%age	Target	10.00	10.00	10.00
	Actual	6.70	5.99	5.12
Lube to HSD oil%age	Target	1.50	1.50	1.50
	Actual	0.78	0.77	0.63
Lube oil consumption In Ltrs / 100 EKMs	Target	7.50	7.50	7.50
	Actual	2.96	2.91	2.59
Specific fuel consumption (Goods) in Ltrs./1000 GTKMs	Target	2.35	2.30	2.30
	Actual	2.04	2.06	2.59
Specific fuel consumption (Passenger) in Ltrs./1000 GTKMs	Target	4.04	3.83	4.10
	Actual	4.00	3.80	3.86
Statistical failures	Target	60	60	36
	Actual	30	41	36
Direct punctuality	Target	24	18	48
	Actual	18	46	27

7.0 RAILWAY CONSUMER DEPOT for Fuel dispensation:

Description	Qty.
HSD oil tank capacity 456 KL (2 tanks) Installed on 22-03-1977	232 KL + 224 KL
HSD oil daily issues	25 KL
Lube Oil Tank Capacity 100KL (2 tanks)	50 KL+50KL
Lube oil daily issues	1.5KL
No. of Decanting points	7
No. of issue points	2
No. of pumps (Two diesel & one electric)	3

8.0 BULK LUBE OIL DISPENSING PLANT:

Description	Qty.
Main Tanks (50 KL each)	2
Auxiliary Tanks (5 KL each)	2
No. of issue points	9

9.0 Action taken on Implementation of Annexure-6 of Corporate safety Action plan:

Ref item No	Recommendation	Status
77/1	Availability of DBR	All Locos have been provided
28.5/2	Air Dryers for Loco	All Locos have been provided
75/3	Provision of twin beam head lights	All Locos have been provided
28.4/4	Provision of Microprocessor based Paperless SPMs	All Locos have been provided
69/5	Provision of Auto switching on of flasher lights	All Locos have been provided
28.2/6	High prominence LED flasher Light	**87** Locos have been provided so far

10.0 Maintenance support- Stores:

- Total Items Stocked : 1279
- A Category Items : 77
- B Category Items : 238
- C Category Items : 898
- Total AAC Value : 19.1 Cr.
- There are 03 issue wards, 01 CPW ward for centralized items and 01 receipt ward.

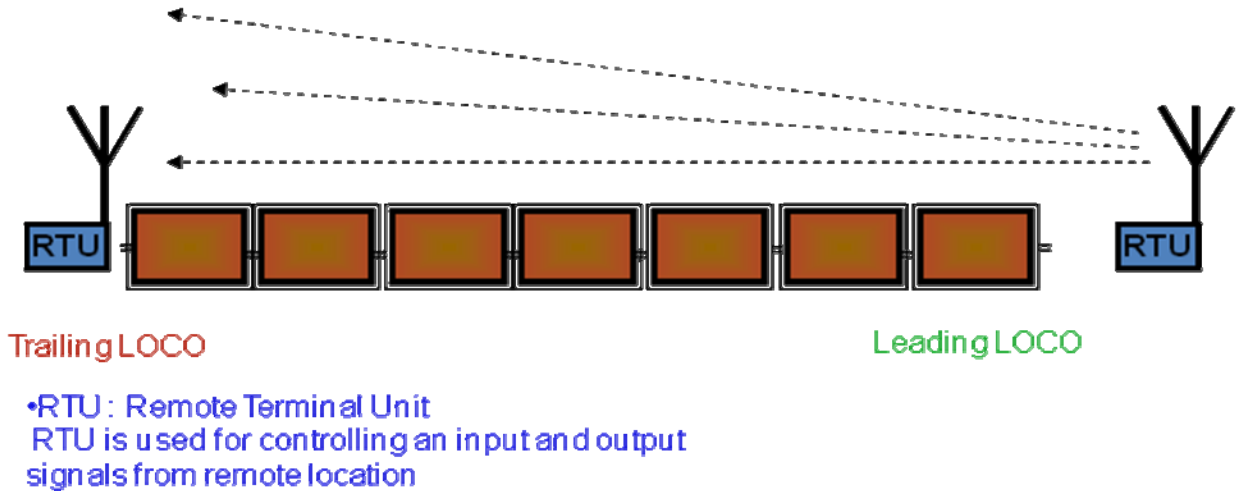
11.0 Maintenance support- laboratory:

- Laboratory facility for testing.
  - Coolant Water.
  - Lubricants.
  - Cleaning chemicals.
  - Metallurgical analysis of materials.
  - Spectrographic analysis of lubricants to detect water element.
  - NDT (Zyglo, Dye penetrate Test and Magna flux Test) testing of Loco Components.
  - UT Testing of Axles and Bearings.
- Reclamation of drain Lube oil as dash pot oil for coaches.
- Pollution control to protect environment.
- Maintenance of effluent treatment plant, incinerator.
- Maintenance of DM plant for coolant water.
- Maintenance of RO plant for drinking purpose.

12.0 Loco Trol:

Wireless MU coupler (LocoTrol) first of its kind in Indian Railways has been fitted In 2 WDM2 over aged locos and the locos are successfully working between KTPS and Rudrampur siding in BDCR sector.

Detention on account of detaching, reversing and attaching of locomotives (MU), creation of pressure and continuity test, etc. are eliminated at loading & Un-loading points. MU operation is achieved without cable connection, thus giving flexibility in operation. Coupler forces are minimized to reduce the chances of train parting.



13.0 Hindi Implementation:

90% of staff are working in Bilingual and Hindi meetings are being conducted every 3 months. Diesel Loco Shed, Kazipet achieved first prize during Hindi exhibition on 26.10.2010 for implementation of Hindi as Rajya Bhasha in SC Division.

14.0 Staff welfare Measures:

There are total about 1754 Quarters are available in KZJ area and in which 379 Quarters (Type I-155, Type II - 176, Type III - 41, Type IV - 07) are in Diesel Colony Covering around 45 % of staff strength.

15.0 Highlights and Initiatives taken by the shed:

Highlights

- During This year the availability is maintained above 13.6 % over the Target.
- During This current year the ineffective %age is contained below 5.0% as against the permissible limit of 10%.
- Wireless MU coupler (Loco Trol) first of its kind in I Rlys has been fitted in two WDM2 over aged locos and the locos are successfully working between KTPS and Rudrampur siding in BDCR sector.
- 62 WDG3A &WDM3A locos out of 129 locos have been made fit to 30 days interval schedule as against 15 days interval schedule, out of which 40 locos are further made fit for working 40 days interval schedule.

Initiatives:

- Action plan with measurable targets have been defined for each section (20 sections available in shed) to achieve better reliability and availability of locos.
- Loco schedule history has been computerized. Similarly Loco failures, Loco schedules, Wheel Profiles, Stores, and components failures etc., also computerized in access database for quick and proper analysis.

- Safety Action plan has been defined and implemented to turn out the locos from shed with all safety parameters certified at SSE and Officers' level. The staff, Supervisor & officer responsible for checking each safety parameter is defined in the Plan and meticulously monitored. There is No derailment on Loco Account.
- In the wake of CBC coaching stock, a rigorous Drive launched to check the CBC Components and all the defects identified are attended.
- Audit plan for all sections in the shed has been defined and displayed in sections in form flexi charts for conducting regular audits to achieve best reliability and availability of Locos.
- Technical audits are regularly being conducted in all sections to stream line the working to achieve better reliability and availability of locos.
- A number of test gadgets have been developed to improve the reliability of various sub assemblies of the locomotive.

16.0 Mission areas for the Year 2011-12:

- Conversion of more locos into 30 days schedule interval.
- Conversion of more locos into 40 days schedule interval.
- Carrying out Crew friendly Cab modifications on 20 locos.
- Implementation of Safety Action Plan for safe running of locomotives.
- Implementation of Action plan defined each section wise.
- Scientific analysis of failures and initiating suitable preventive action to avoid recurrences.
- Maintaining availability of locos +12.5% over the target.
- Excellent housekeeping of sections and over all shed.
- Development of adequate unit exchange spares.

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