

Railway : Southern Railway
Shed : Diesel Loco Shed, Tondiarpet.
Shed Code : DSL / TNP / SR

Photo of Shed



Loco of shed in Colour Scheme



I. Brief History

Diesel loco shed at Tondiarpet was started in the year 1972 with the induction of WDS_{4B} diesel locos to cater the shunting requirements of Tondiarpet marshalling yard and goods shed in RPM, SO and coaching depot BBQ in Chennai division. Later the fleet of WDS_{4B} Loco got increased to 64 for further utilisation in other division and work shops (i. e) TPJ, PGT, SBC, TVC, MYS divisions and LW/PER, CW/PER, ICF. Consequent to the reduction of WDS_{4B} locos, WDM₇ main line locos were inducted in TNP shed for utilization of Passenger and yard shunting work in MAS, TPJ, MDU and PGT division from 2001. In addition mainline WDM₂ locos were inducted in TNP shed from April 2007 to maintain goods outage. As on June 2010 the holding of Tondiarpet shed is 33 WDS_{4B} locos, 4 WDS_{4D} locos, 14 WDM₇ locos and 15 WDM₂ locos. (***Total 66 Locos***).

1. Year of Establishment : 1972
2. Road No./ Type of the first loco homed in shed : Road-1,2 &3
WDS_{4B}-19202
3. Details of any heritage locos in shed : Nil
on pedestal or otherwise:
4. ISO Certification Year : Nil
9001
14001
18001
5. Type of Holding : WDS_{4B} - 33
WSD_{4D} - 04
WDM₇ - 14
WDM₂ - 15
6. Maximum Holding (Year /Number of Locos) : 2005/74 locos
7. Present Loco Link :
Link. No 3: 2 WDM₂Locos
Train No: 4260-2789-2790-2789-2790-2789-2790-4259-8496-8495
Link. No 2: 1 WDM₂Loco
Train No: 2867-2868
Link. No 1: 1 WDM₂Loco
Train No: 151-156-157-152
8. Homing Capacity : 50 Locos
9. Augmentation Plans :

10. **Other history (Not more than 4 lines)** :

Self Propelled Accident Relief Train (SP-ART) was commissioned in Aug' 1999 with DPC & DTC and maintenance was undertaken. Undertaken Maintenance of Diesel Electric Multiple Units (DEMU) services introduced during Jan' 2000. Maintenance of 140T BD Crane was undertaken from Jan' 2005. WDM₇ Loco 11008 was inducted with on Bio-Diesel mixture of 10%.

II. Vital Statistics

1. Sanctioned Strength : 429
2. On Roll Strength : 378
3. No. of. Officers : 1
4. No. Of. Supervisors (On roll) : 31
5. Total Area : 75000 Sq. Mts
6. Covered Area : 6652 Sq. Mts
7. %age of staff housed in Railway Quarters : 6.34% (on roll)
8. Power Consumption per month : 21,000 Units.
9. Water Consumption : 18 KL
10. Educational Profile of Staff :

Upto 8 th	> 8 th	10 th Pass	10-12 th	ITI/Diploma	Graduate
8	22	82	147	98	21

11. Age profile of Staff :

<30 yrs	30-40	41-50	51-55	56-60
35	87	71	88	97

12. MPR as circulated by E & R Dte

Sanctioned staff per loco : 6.00

Actual staff per loco : 5.44

III. Performance Parameters

1. SFC Freight : 2.08
(Average for the year [2009-10]) Pass : 4.27
2. LOC(Average for the year [2009-10]) in Litres :7088
3. Shed consumption of Fuel :22KL
(Average for the year [2009-10]) in litres
4. Kms Earned by shed locos/Month :3,18,407
(Average for the year [2009-10])

IV. Any Important Innovations

ELECTRONIC FAULTY TRACTION MOTOR DETECTOR



In Diesel Electric locomotives the loco pilot is not able to locate the faulty traction motor with the existing arrangement. Sometime the good traction motor is isolated by the driver from the circuit and defective traction motor gets major damages. To avoid such failures an Electronic Faulty Traction Motor Detector has been developed. With the help of this kit, the loco pilot can easily locate and isolate the faulty traction motor by using the change over switch provided on the panel. This detector can be fitted on the locomotive without disturbing the existing circuit.

BUFFER COUPLER VIEWER

During the coupling of Diesel locomotives with Coaches / Wagons, one of the operating staff gives the movement signal to the loco pilot and the other staff performs the coupling operation. The loco pilot can't see whether the loco is properly coupled and the staff has come out or not. Due to this there is a possibility of staff getting injured. In order to overcome this problem, a camera is provided adjacent to the coupling and it is connected with a monitor fitted in driver's cabin. The driver can operate the selector switch and can see the coupling operation performed in both LH and SH sides.



TRIPLE UNIT OF WDS4D



Diesel shed, Tondiarpet has formed Triple unit comprising of three WDS_{4D} locos 19676, 19701 and 19702 dual brake locos fitted with Voith Transmission. Suitable modifications were carried out in these locos for hauling more load. Subsequently load trial was conducted on 13.08.08 with Triple unit for hauling BCN rake consisting of 42 wagons (21 Load + 20 Empties and 1 BV) ex.TNPM to TO. The Triple unit has hauled 2317 Tones of load at a maximum speed of 45 KMPH.

SOUTHERN RAILWAY

M/M/DSL/226/ Loco history

Divisional Office,
Mechanical Branch,
Diesel Loco Shed,
Tondiarpet,
Chennai-81.

Date: 01.07.10

Dy.CME / DSL / MAS

Sub: Brief history of Diesel shed Tondiarpet.

Brief history, Vital Statistics and performance of Diesel shed
Tondiarpet is herewith enclosed as in prescribed format.

This is for your kind information.

DME / DSL / TNP