

USER MANUAL FOR
'Wheel Measurement'
by ELS

CRIS

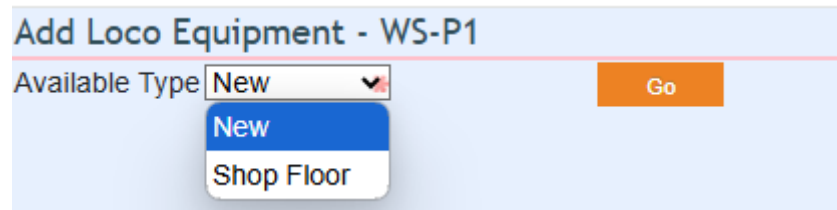
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WHEEL MEASUREMENT MANUAL

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Click on the WS link to add the Wheel set details of particular Loco.

In this page user selects either "New" or "Shop Floor" from Available Type drop down list.



The screenshot shows a web form titled "Add Loco Equipment - WS-P1". Below the title, there is a label "Available Type" followed by a dropdown menu. The dropdown menu is currently open, displaying two options: "New" (highlighted in blue) and "Shop Floor". To the right of the dropdown menu is an orange button labeled "Go".

i. **New**

Select "New" to create new Wheel set and click on  button to enter the equipment details.

Enter all the Mandatory fields as under :

- Provision date
- Schedule
- Model(If multiple models available)
- Eq. Number(Manufacturer)
- Location Eq. Number
- Date of Receive
- Eq. Make(Select from drop down)

and other required fields as under :

- Date of Commission
- Date of Manufacture
- Warranty Up to (If Available)
- UserDefinedParam1
- UserDefinedParam2
- Remarks
- Position Code

and click on **Save** button.

'Saved Successfully' message will be displayed and new wheel set is added to the Loco. Click on ok.

ii. Shop Floor

To add existing wheel set to a Loco, Select "Shop Floor", the existing equipment name is shown. Click on **Go** button to view the equipment details.

Add Loco Equipment - WS-P7

Available Type **Shop Floor** Equipments **TPP-53-78/ RWF/(TPP-53-78)** Assembly **Full** **Go**

Select the Provision date and schedule. Click on **Save** button.

Add Loco Equipment - WS-P7

Available Type **Shop Floor** Equipments **TPP-53-78/ RWF/(TPP-53-78)** Assembly **Full** **Go**

Provision Date **03/03/2024** Schedule **ICD**

WS-P7	
Model	--Select--
Eq.Number	TPP-53-78
Location Eq.Number	TPP-53-78
Date of Commission	12/01/2022
Date of Manufacture	--
Date of Recieve	--
Warranty Upto(If Avbl)	--
Eq.Make	RWF
UserDefinedParam1	
UserDefinedParam2	
Remarks	OK
Position Code	

Save **Back**

'Saved Successfully' message will be displayed and new wheel set is added to the Loco. Click on ok.

We can View the previously added details of the loco equipment in tabular column.

56	WS-P7		1	TPP-60-78	TPP-60-78	CLW	29/02/2024	ICO	26/11/2021	..	..
57	WS-P7		2	TPP-33-21	TPP-33-21	CLW	29/02/2024	ICO	29/02/2024	..	..
58	WS-P7		3	..	..	..	..	..	..	..	..
59	WS-P7		4	19P-0457	19P-0457	DLW BSB	29/02/2024	ICO	29/02/2024	..	..
60	WS-P7		5	TPP-30-48	TPP-30-48	CLW	29/02/2024	ICO	14/11/2019	..	..
61	WS-P7		6	TPP-25-79	TPP-25-79	CLW	29/02/2024	ICO	12/11/2021	..	..

2. Wheel Measurements

a. Add Loco Wheel Measurements:

- Supervisor shall click on 'Wheel Measurements' from 'Wheel Measurements' side menu
- 'View Wheel Measurements' screen shall be displayed with 'Add Wheel Measurements' link.

The screenshot displays the SLAM system interface. At the top, there is a navigation menu with options like Administration, Alerts, Bulletin Boards, Condition Monitoring, Corrections, Documents, IMMS, Jobcards, Kavach, Lab, Loco Abnormalities, Loco Failures, Locos, Machinery And Plant, Measurement Master, Memos(0), Movement Register, MU Locos, Notes(0), and Planning. Below the menu, there is a search bar and a 'View Wheel Measurements' section. A red box highlights the 'Add Wheel Measurements' link. Below this, there is a table with columns for S.No, Loco, HomeShed, Measurement DoneAt, Min Dia (Bogie 1), Min Dia (Bogie 2), Date, Reading Purpose, Wheel Profile, Measured By, Section, Reason Of Turning, Schedule, and Remarks. The table contains 20 records of wheel measurements.

S.No	Loco	HomeShed	Measurement DoneAt	Min Dia (Bogie 1)	Min Dia (Bogie 2)	Date	Reading Purpose	Wheel Profile	Measured By	Section	Reason Of Turning	Schedule	Remarks	Dele	
1	30661	LDHE (ELS)	LDHE (ELS)	1062	1068	03/03/2025	After Turning	Wear Adopted	Rajesh Kumar Kaundal	M1	Wheel Dia Matching, Wheel Skidding	TOH	Re measurement found normal		
2	43438	LDHE (ELS)	LDHE (ELS)	1086	1084	03/03/2025	Regular CheckUp	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IB	Wheel measurement found normal		
3	32445	LDHE (ELS)	LDHE (ELS)	1054	1047	03/03/2025	Regular CheckUp	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IC	Wheel measurement found normal		
4	41028	LDHE (ELS)	LDHE (ELS)	1056	1040	01/03/2025	Regular CheckUp	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IC	Wheel measurement found normal		
5	32397	LDHE (ELS)	LDHE (ELS)	1037	1052	01/03/2025	Regular CheckUp	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IC	Wheel measurement found normal		
6	30461	LDHE (ELS)	LDHE (ELS)	1047	1061	01/03/2025	Regular CheckUp	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IB	..		
7	33643	LDHE (ELS)	LDHE (ELS)	1078	1067	01/03/2025	Before Turning	Wear Adopted	Kuldeep Singh	M1	Flange Wear limit crossed (0-3mm), Root Wear limit crossed (0-6mm)	IB	WHEEL NO. 06 FLANGE 29.5 MM AND ROOT WEAR 4.5 MM. SO 1ST BOGIE WRP REQUIRED FLANGE TO BE MADE 31.0 MM AND ROOT WEAR 2-3 MM		
8	33643	LDHE (ELS)	LDHE (ELS)	1072	1067	01/03/2025	After Turning	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IB	..		
9	31733	LDHE (ELS)	LDHE (ELS)	1039	1028	01/03/2025	Regular CheckUp	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IA	Wheel measurement found normal		
10	32538	LDHE (ELS)	LDHE (ELS)	1043	1044	27/02/2025	Regular CheckUp	Wear Adopted	Harvinder Singh	M1	..	IC	WHEEL MEASUREMENT FOUND NORMAL		
11	30221	LDHE (ELS)	LDHE (ELS)	1036	1036	27/02/2025	After Turning	Wear Adopted	Harvinder Singh	M1	Flange Wear limit crossed (0-3mm), Root Wear limit crossed (0-6mm), Wheel Dia Matching	IA	RE MEASUREMENT FOUND NORMAL		
12	32499	LDHE (ELS)	LDHE (ELS)	1022	1038	27/02/2025	Before Turning	Wear Adopted	Harvinder Singh	M1	Others	IC	WHEEL NO. 12 CUT MARK ON FLANGE SO 2ND BOGIE WRP REQUIRED		
13	30815	LDHE (ELS)	LDHE (ELS)	1056	1040	25/02/2025	Regular CheckUp	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IA	Wheel measurement found normal		
14	30201	LDHE (ELS)	LDHE (ELS)	1036	1034	25/02/2025	After Turning	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IA	Re measurement found normal		
15	32680	LDHE (ELS)	LDHE (ELS)	1062	1046	25/02/2025	Regular CheckUp	Wear Adopted	Rajesh Kumar Kaundal	M1	..	IB	Wheel measurement found normal		
16	32622	LDHE (ELS)	MLDD(ELSD)	1038.5	1038	25/02/2025	After Turning	Wear Adopted	Soumik Ghosh	M2	Wheel Skidding	UnSch	Wheel no. 1 & 6 wheel turning due to same axle dia matching and Rear Truck all wheel turning due to wheel skidding		
17	30201	LDHE (ELS)	LDHE (ELS)	1036	1034	24/02/2025	Before Turning	Wear Adopted	Rajesh Kumar Kaundal	M1	Wheel Dia Matching	IA	1st Bogie axle changed, All wheel measurement to be check on pit wheel lathe machine		
18	32644	LDHE (ELS)	SRC(TS)	1030	1042	23/02/2025	Regular CheckUp	Thick Flange	PAVAN KUMAR	TSSRC	..	TI	LOCO ALLOWED TO WORK.		
19	32122	LDHE (ELS)	LDHE (ELS)	1085	1079	23/02/2025	Regular CheckUp	Wear Adopted	SANJAY KUMAR	M1	..	IA	Wheel skidding and measurement found normal		
20	32897	LDHE (ELS)	LDHE (ELS)	1070	1073	23/02/2025	After Turning	Wear Adopted	SANJAY KUMAR	M1	Flange Wear limit crossed (0-3mm), Root Wear limit crossed (0-6mm)	Re measurement found normal	

- User shall click on 'Add Wheel Measurements' link.

- 'Add Wheel Measurements' screen shall be displayed.

The screenshot shows the 'Add Wheel Measurements' interface. The top navigation bar includes the SLAM logo and links for Home, Feedback, Reports, and Logout. Below this is a secondary navigation bar with various system modules. The main content area is titled 'Add Wheel Measurements' and contains a form for 'Loco Wheel Measurement Info'. The form includes fields for 'Select From' (a dropdown menu), 'Reading Purpose' (a dropdown menu), 'Date' (a date picker), 'Last Turning / Regular CheckUp Date' (a text field), 'Is Equipment Changed?' (a checkbox), 'Loco' (a dropdown menu), 'Done By' (a text field), 'Wheel Profile' (a dropdown menu), 'Shed' (a dropdown menu), and 'Schedule' (a dropdown menu). There is also a 'Reason of Turning' text field and a 'Remarks' text area. At the bottom of the form are 'Save' and 'Back' buttons.

- Supervisor shall select 'Select From'. which has three options
 - All - shows all locos
 - Under Maintenance - shows under maintenance locos
 - Foreign- shows foreign locos.
- Supervisor shall collect Loco, Done by, date and schedule, Reading Purpose.
- For each loco has 6 wheel sets. Each wheel set has 2 wheels.
- Based on selected loco number the schedule shall be displayed.
- This screen has question field 'Is Equipment Change? '
 - If the supervisor checks this field then changed wheel set readings are shown, not available wheel set positions shows empty. Otherwise old data shall be displayed.
- Based on selected 'select from' the loco shall be displayed.

- Supervisor shall enter remarks.
- On changing the loco the measurements of
 - Diameter
 - Flange
 - Root
 - Tread wear
 - wheel gauge
 - Tire Thickness
 - Axle dia
 - Road gauge
 - K value
 - Stopper distance
 - Flange Thickness shall be displayed

Add Wheel Measurements

Loco Wheel Measurement Info

Select From: Under Maintenance
 Reading Purpose: Before Turning
 Date: 15/08/2022
 Last Turning Date: --

Is Equipment Changed?
 Loco: 30344
 Done By: Adiya Legha

Shed: TKD
 Schedule: UnSch
 Reason of Turning: Bogie Balancing

Position	1	2	3	4	5	6	7	8
SerialNo	TPP47-72	TPP47-72	TPP44-73	TPP44-73	TPP25-70	TPP25-70	TPP36-70	TPP36-70
Diameter	1084.9	1084.8	1084.8	1084.8	1085	1084.9	1082.1	1082.3
Flange Wear	1	0.7	0.5	0.5	0.2	0.5	0	1
Root Wear	0	0	0.2	0.2	0	0.5	0	0
Tread Wear	0	0	0	0	0	0	0	0
Wheel Gauge	1595.52		1595.79		1595.76		1595.9	
Tire Thickness	61.45	61.4	61.4	61.4	61.5	61.45	60.05	60.15

Road Gauge	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
K Value	260.7		0		0		0	
Stopper Distance	0		0		0		0	
Flange Thickness	31	31.3	31.5	31.5	31.8	31.5	30.5	31
Remarks	<input type="text"/>							

Save Back

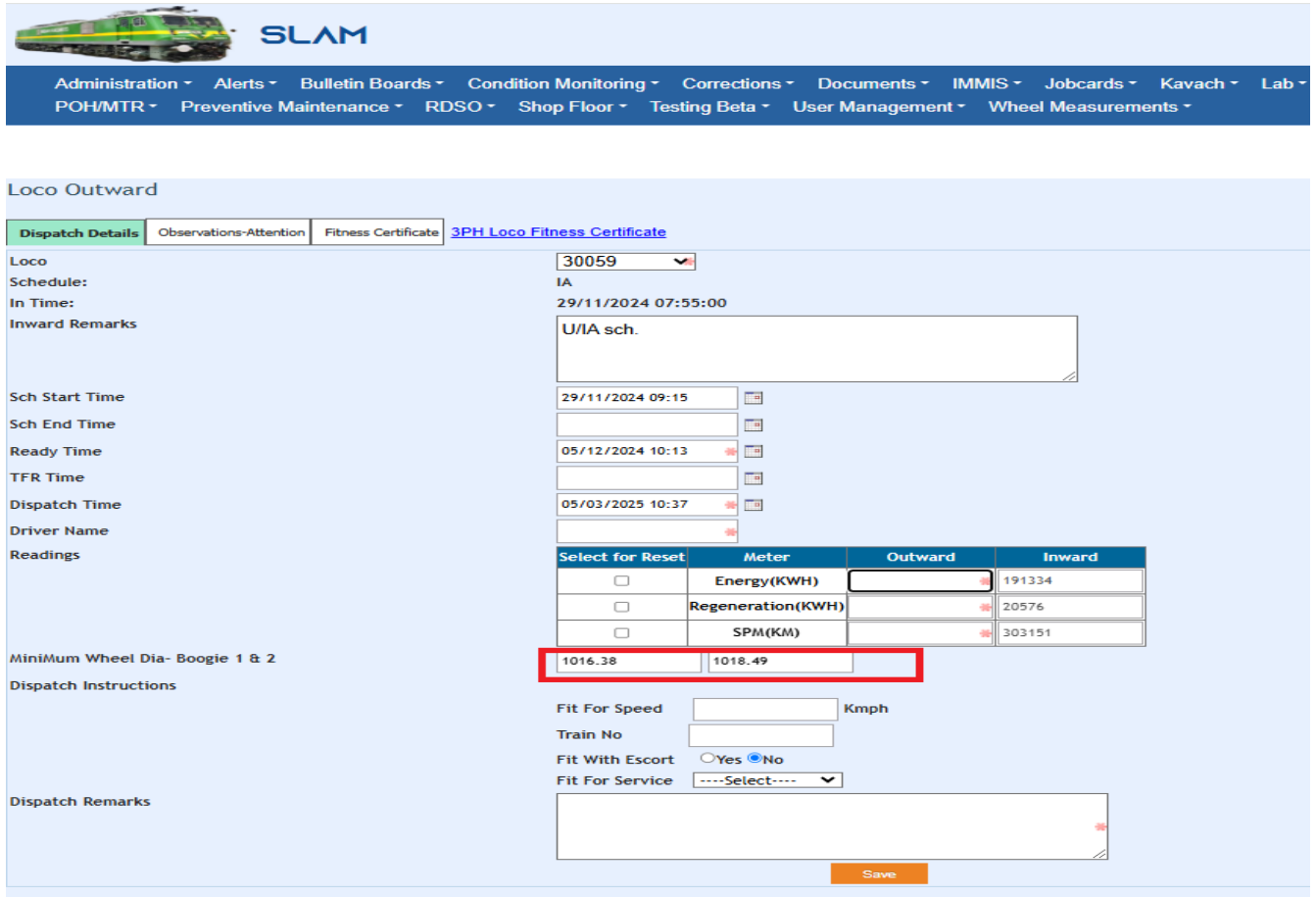
- If 6 wheel sets are not available for selected loco the 'Save' button shall be disabled and alert message shall be displayed otherwise Sections supervisor have provision to save the wheel measurements.
- Supervisor enters the wheel measurements of root, flange,

diameter, and wheel gauge and remarks.

- Steps to enter the wheel measurements:
 - Section supervisor shall enter the readings and change the wheel sets and enter the first readings.
 - Supervisor shall enter the 'Before turning' readings.
 - Supervisor shall enter the 'After turning' readings.
- Wheel turning checkboxes shall check for done turning wheel sets.
- On submitting, user details shall be validated.
- If validation unsuccessful, error/Warning Message shall be displayed, use case ends.
- If validation successful, entered details shall be saved in database

3. Wheel dia at Loco Outward page

During shed out of loco, Wheel diameter will be displayed at Loco Outward page as shown below:



The screenshot shows the SLAM Loco Outward page. The header includes the SLAM logo and a navigation menu with items like Administration, Alerts, Bulletin Boards, Condition Monitoring, Corrections, Documents, IMMIS, Jobcards, Kavach, Lab, POH/MTR, Preventive Maintenance, RDSO, Shop Floor, Testing Beta, User Management, and Wheel Measurements. The main content area is titled "Loco Outward" and has tabs for "Dispatch Details", "Observations-Attention", and "Fitness Certificate". A link for "3PH Loco Fitness Certificate" is also present. The form contains various fields for loco details, schedule, and times. A table lists readings for Energy(KWH), Regeneration(KWH), and SPM(KM). The "Minimum Wheel Dia- Boogie 1 & 2" section has two input fields with values 1016.38 and 1018.49, which are highlighted with a red border. Other fields include "Fit For Speed", "Train No", "Fit With Escort", and "Fit For Service". A "Save" button is at the bottom right.

Select for Reset:	Meter	Outward	Inward
<input type="checkbox"/>	Energy(KWH)		191334
<input type="checkbox"/>	Regeneration(KWH)		20576
<input type="checkbox"/>	SPM(KM)		303151

Minimum Wheel Dia- Boogie 1 & 2

1016.38	1018.49
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Else error message will be displayed as shown below



SLAM

slam.indianrail.gov.in says

please fill wheel diameter detail in wheel measurement before shed out.

OK

- Administration
- Alerts
- Bulletin Boards
- Condition Monitoring
- Corrections
- Documents
- IMMIS
- Jobcards
- Planning
- POH/MTR
- Preventive Maintenance
- RDSO
- Shop Floor
- Testing Beta
- User Management

Loco Outward

Dispatch Details Observations-Attention Fitness Certificate Conventional Fitness Certificate

Loco:

Schedule:

In Time:

Inward Remarks:

Sch Start Time:

Sch End Time:

Ready Time:

TFR Time:

Dispatch Time:

Driver Name:

Select for Reset	Meter	Outward	Inward
<input type="checkbox"/>	Energy(KWH)	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	Regeneration(KWH)	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	SPM(KM)	<input type="text"/>	<input type="text"/>

Minimum Wheel Dia- Boogie 1 & 2:

Dispatch Instructions

Fit For Speed: Km/h

Train No:

Fit With Escort: Yes No

Fit For Service:

Fitness Certificate

Loco: Schedule: Arrived On: Ready On:

Inward Remarks:

Dispatch Remarks: