

4059149/2025/O/o DY.CEE(D&D)/CLW&I&D/HWH

**CG Power and Industrial Solutions Limited**

**Railway Transportation- Traction Electronics**

Plot No. 9, New Industrial Area Phase II, Mandideep, 462046, Bhopal, Madhya Pradesh, India

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Smart solutions.  
Strong relationships.

**Our Ref: CLW/SW/TCN-VCU/2025/Jul 14**

**Date: 14-07-2025**

To,  
**The Dy. Chief Electrical Engineer, (C D&D)**  
**Chittaranjan Locomotive Works**  
**Chittaranjan.**

**Kind Attention: Shri Pankaj Kumar (Dy.CEE-D&D-I /CLW)**

**SUB: Permission for uploading software version 1613 for Locomotive equipped with DPWCS in CGPISL make TCN-VCU**

**Ref. – i) CLW Letter No. C-D&D/T/34 (Part-I)/ Progress dtd: 13.05.2025**

**Dear Sir,**

This is with reference to reliability improvement of our Propulsion System and as per the letter mentioned in reference, with support of M/s. CDAC we had incorporated the feature of DPWCS, Water closet and AFL modification. This version is based on last version which already covers the features of the Multi Loco functionality and CAB redundancy for freight locomotive- WAG9H.

This upgraded version of software is uploaded in below mentioned locomotives and their performance found to be satisfactory.

Sr. No.	Loco No.	DPWCS make	Brake System Make	Release Date
1	38926 MU 42431	Lotus Wireless	Knorr Bremse (KB)	19.05.2025
2	42465 MU 42545	Lotus Wireless	Faiveley Transport (FTIL)	19.05.2025

Hence we request for the approval and permission to upload this software with our equipped TCN-VCU. Thanking you and assuring for best services to Indian Railway all the times.

**Thanking You.**

**With Best Regards,**  
**Krishan Junwani**  
**Sr. Manager – Design**

**Encl:** 1) Joint Note copy attached.  
2) Release Note

krishan.junwani@cgglobal.com < krishan.junwani@cgglobal.com >  
Mon, 14 Jul 2025 3:30:32 PM +0530

To "ANKIT KUMAR VERMA"<ssednd2@clw.railnet.gov.in>  
Cc "Dy CEE D D CLW"<dyceedd@clw.railnet.gov.in>

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- Encl:
- 1) Joint Note copy attached.
  - 2) Release Note

Thanks,  
KJ

4 Attachment(s)

Software version report\_WAG...  
647.8 KB

DPWCS\_Joint Note.pdf  
806.5 KB

Lt dt 130525\_CGLCDAC\_DP...  
167.2 KB

CLW\_Letter\_for Approval of D...  
79.6 KB

**Rolling Stock Software for CGL based full propulsion**

Loco type	WAG9
Propulsion/ VCU Manufacturer	CGL
Version No WAG9	FLG1 & STB1 -1613, FLG2 & STB2-1613 HBB1 –1612, HBB2-1612
Date of release	11.06.2025
Description	Software for WAG9
Version	Test Version

**Major modifications in present release:**

1. Multi loco WTB software updation for WAG9 locomotives
2. Water closet and AFL modifications carried out
3. For CAB1- CAB1, CAB2- CAB2, CAB1- CAB2 formation and driving from leading and intermediate CABs for use of AMiT gateway
4. DPWCS with Lotus Wireless Module



## South Eastern Railway

Electric Loco Shed: Rourkela

**Joint note For COMMISSIONING OF DPWCS (M/s LOTUS WIRELESS)**

No. TRS/ROU/E6/05/25/15

Date: 23.05.2025

L/No. 38926 (CGL) & L/No. 42431 (CGL) received from CLW incorporated with DPWCS of M/s Lotus wireless (vide P.O. NO. 70211140100449 Dated 04/APR/2024). and M/s KB brake system. The above WAG9 locos successfully conducted Static and distance test jointly by ELS/ROU, M/s CGPISL, M/S Lotus Wireless Technologies India Pvt. Ltd. and commissioned DPWCS system at ELS/ROU On Date-19.05.2025.

SL NO	LOCO NO	CCU NO	DDU1 SL NO	DDU2 SL NO	TRU SL NO	DATE OF COMMISSIONING
1	38926	LWT/09/2024/092/CCU_A/504	LWT/09/2024/193/DDU_A/1017	LWT/09/2024/194/DDU_A/1018	LWT/09/2024/097/TRU_A/509	19.05.2025
2	42431	LWT/09/2024/097/CCU_A/509	LWT/09/2024/177/DDU_A/1001	LWT/09/2024/178/DDU_A/1002	LWT/09/2024/089/TRU_A/501	19.05.2025

DPWCS loco pair 38926 and 42431 field trial run conducted successfully from BONDAMUNDA N CABIN to BARSUAN on Date-19.05.2025.

**Observations during trial Run :-**

1. Lead and Remote locomotives configured and grouping done successfully.
2. RF communication was found healthy in both locos.
3. Locomotives function like Panto, VCB, Reverser, Sanding, PVEF and Mode tested working normal.
4. Tractive effort and Regenerative braking in Remote and Lead locomotives found synchronized.
5. Automatic Neutral Section Negotiation functionality is tested and found all the operation are working normal.

**Deficiencies Noticed during Trial Run :-**

- During BPCS operation TE/BE showing zero in remote loco.
- "Alarm Chain Pulling" message pop up sometimes on DDS during running condition.



(Saikat Nandy)

Representative of M/s CGPISL



(Saikat Mukherjee)

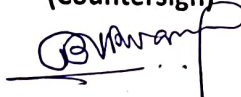
Representative of M/s LOTUS



(Sudhansu Mishra)

SSE/ELS/ROU

(Countersign)



ADEE/TRS/ROU

4059149/2025/O/o DY.CEE(D&D)/CLW&ED/HW  
**South Eastern Railway**  
**Electric Loco Shed: Rourkela**  
**Joint note For DPWCS (M/s LOTUS) of M/s CGPISL**

No. TRS/ROU/E6/05/25/16

Date: 23.05.2025

L/No. 42465 (CGL) & L/No. 42545 (CGL) received from CLW/DANKUNI incorporated with DPWCS of M/s Lotus wireless and M/s FTIL brake system. The above locomotives offered to M/s CGPISL & M/s LOTUS WIRELESS for DPWCS pairing on Date 19.05.2025. The observations are as under.

- Both loco DPWCS pairing found normal, and node up to 596 found normal.

**During RUN test:-**

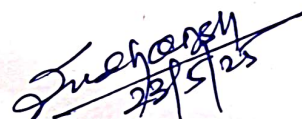
- Emergency push button found normal.
- Inching mode working normal.
- Shunting mode working normal.
- BPFA working normal.
- Failure mode working normal.
- DPWCS isolation working normal.
- *During BPCS operation TE/BE showing zero in remote loco.*



(Saikat Nandy)  
Representative of M/s CGPISL

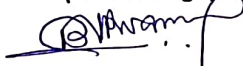


(Saikat Mukherjee)  
Representative of M/s LOTUS



(Sudhansu Mishra)  
SSE/ELS/ROU

(Countersign)



ADEE/TRS/ROU

**INDIAN RAILWAYS****CENTRE FOR DESIGN & DEVELOPMENT****CHITTARANJAN LOCOMOTIVE WORKS**

PO: Chittaranjan, West Bengal. PIN: 713331

Fax: (+91) 341-2526153, Ph: (+91) 341-2525578

**No. C-D&D/T/34 (Part-I)/Progress****Date: As signed****M/s CG Power & Industrial Solutions Ltd.,**CG House, 6<sup>th</sup> Floor, Annie Besant Road,

Worli, Mumbai- 400 030

Email: [krishan.junwani@cgglobal.com](mailto:krishan.junwani@cgglobal.com)

**Sub: Validation of DPWCS in M/s CGPISL make propulsion system fitted with E/70 Brake system.**

**Ref: Joint Note no. TRS/ROU/E6/05/25/05 dated 06/05/2025**

1. Vide joint note under reference, validation of DPWCS in M/s CGPISL make propulsion with CDAC VCU and CCB type brake system has been completed at ELS/ROU. However, validation of DPWCS in M/s CGISL make propulsion with CDAC VCU and E/70 type brake system has not been completed yet.
2. It is therefore advised to depute your representative at ELS/ROU for successful validation of DPWCS in M/s CGPISL make propulsion with CDAC VCU and E/70 type brake system.

  
(Ashish Kumar)  
SEE/D&D

**Copy to:**

- 1 CDE/CLW
- 2 Dy.CEE/D&D-I
- 3 M/s Centre for Development of Advance Computing,  
Power Electronics Group,  
Thiruvananthapuram, Kerala- 695 033  
Email: [arunraj@cdac.in](mailto:arunraj@cdac.in)

- For kind information please.

- For kind information and deputing of representative at ELS/ROU for necessary action please.

  
SEE/D&D