DATA UPDATED UP TO 31.03.2026

GREENFIELD LOCOMOTIVE PROJECT



WAG12B LOCOMOTVIE



WDG4G LOCOMOTIVE



WDG6G LOCOMOTIVE

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1. GENERAL:-

- Two Locomotive Manufacturing Factories, M/s. Madhepura Electric Locomotive Pvt. Ltd. Madhepura & M/s Wabtec Locomotive Pvt. Ltd. Marhowra have been set up under Public-Private Partnership agreement.

- It is a joint venture between the Ministry of Railway with equity share of 26% with leading international Locomotive Manufactures i.e. M/s Alstom India Pvt. Ltd. & M/s Wabtec India Pvt. Ltd. who has brought into State of the art technology in the lands of BIHAR.

- The Electric & Diesel Locomotives availability and Energy Efficiency standard is comparable to the world's standards.

- As per PCMA (Procurement-cum-Maintenance-Agreement) M/s MELPL, Madhepura will turn out 800 numbers of 12000 HP, 8 Axle, Bo-Bo type Electric Locomotive, based on IGBT technology, in a span of 11 years to cater the need for hauling heavy Goods traffic & M/s Wabtec Diesel Locomotive Pvt. Ltd. Marhowra will turn out 1000 Diesel Locomotive (700 numbers of 4500 HP and 300 numbers of 6000 HP), 6 Axle, Co-Co type Diesel Locomotive, based on IGBT technology, in a span of 11 years, to cater the need for hauling heavy Goods traffic on important rail links.

- As per provisions of PCMA Agreement, MELPL has built and operates two maintenance depots for maintenance of WAG12B locomotives, one at Saharanpur (Northern Railway) Uttar Pradesh (for 1st 250 Locomotive maintenance) and the second at Nagpur (Central Railway) Maharastra (for 251th to 500).

- As per provision of PCMA Agreement, WLPL has built and operates two maintenance depots for maintenance of WDG4G and WDG6G locomotives, one at ROZA (for 1st 250 Locomotive maintenance) and second at Gandhidham (for 251th to 500).

- At Madhepura, Factory is spread over around 300 Acre land. It also has a township for its employees of MELPL/Madhepura & at Marhowra, factory is spread over around 200Acre land. It also has a township for its employees of WLPL/Marhowra.

- 33KV power supply, Road connectivity with NH-107, Rail connectivity & electrified traction lines have also been provided to M/s MELPL/Madhepura. A 15 Km 132 KV transmission line from Singheswar Grid Sub-station and132/33/25 KV sub-station at Madhepura has been constructed by Railway for power supply to the factory as well as traction supply to the newly electrified Mansi - Madhepura section. A 25 Km 132 KV transmission line from Masrakh grid sub-station and 132/33KV sub-station at Marhowra has been constructed by Railways for power supply to the factory for M/s Wabtec Pvt. Ltd./Marhowra.

- The MELPL factory was dedicated to nation and the prototype locomotive was flagged off by Hon'ble Prime Minister on 10th April 2018.

2. Production Performance of WAG12B Locomotives:-

Supply Programme (AsperPCMA)	Production in Numbers	
	Target	Actual
	WAG12B (12000HP)	WAG12B(12000HP)
1stYEAR (2017-18)	1	Nil
2ndYEAR (2018-19)	4	Nil
3rdYEAR (2019-20)	35	1
4thYEAR (2020-21)	60	89
5thYEAR (2021-22)	100	110
6thYEAR (2022-23)	100	100
7thYEAR (2023-24)	100	100*
8thYEAR (2024-25)	**100**	**100**
9thYEAR (2025-26)	**100**	**100**
Total	**600**	**600****

1. *Total 9th year supply upto 'March'-2026**: 02 Locomotives**
2. **Overall supply upto 'March -2026 **:- 600 Locomotives**

3. Production performance of WDG4G & WDG6G Locomotives:-

Supply Programme (AsperPCMA)	Production in Numbers					
	Target			Actual		
	WDG4G (4500HP)	WDG6G (6000HP)	Total	WDG4G (4500HP)	WDG6G (6000HP)	Total
1st YEAR (2017-18)	2	0	2	2	0	2
2nd YEAR (2018-19)	96	2	98	81	2	83
3rd YEAR (2019-20)	85	15	100	100	5	105
4th YEAR (2020-21)	80	20	100	80	30	110
5th YEAR (2021-22)	75	25	100	75	25	100
6th YEAR (2022-23)	100	NIL	100	100	NIL	100
7th YEAR (2023-24)	50	50	100	50	50	100
8th YEAR (2024-25)	**40**	**60**	**100**	**40**	**60**	**100**
9th YEAR (2025-26)	**60**	**40**	**100**	**60**	**40**	**100**
Total	588	212	800	588	212	800

1. *Total 9th year supply up to 'March-2026 **:-06 Locomotives.**
2. **Overall supply up to March'-2026 **:-800 Locomotives.**

3. General information of WAG12B, WDG4G & WDG6G Locomotives:-

SN	Parameters	WAG12B	WDG4G	WDG6G
1	Gross Horse Power (GHP)	12000 (6000+6000)	4500	6000
2	Traction Horse Power (THP)	12000	4260	5686
3	Nominal Axle Load(MT)	22.5Tonn.	22	23
4	Starting TE	706KN	544KN	570KN
5	Continuous TE	540KN	405KN	420KN
6	Braking Effort	Reg.514KN, Pn.-153	270KN	286KN
7	Maximum speed	120kmph	100 Kmph	100Kmph
8	Brake Specific fuel consumption (BSFC) @ N8	NA	<=150 g/bhp-hr	<=150 g/bhp- hr
9	Fuel Tank capacity (In Liters)	NA	6000	8000
10	Loco weight	180T.	132T	138T
11	Length over coupler pulling faces	38400 mm	22567 mm	22313
12	Minimum Maintenance interval	45 days	92 days	92 days
13	Minimum Availability (%)	95	95	95

4. **Flagged off of 700th Diesel Locomotive (WDG4G) from WLPL Marhowra on 19th March 2025.**



5. **Flagged off of 500th Electric Locomotive (WAG12B) from MELPL Madheura on 25th March 2025.**



6. Location of site-

SN	Item	MELPL/Madhepura	WLPL/Marhowra
1.	Location	Madhepura (Bihar)	Marhowra(Bihar)
2.	Nearest Railway Station	Darbhanga/Saharsa& Madhepura	Patna
3.	Nearest Airport	Darbhanga {Distance from Darbhanga to Madhepura-153 Km (4Hrs.)}	Patna {Distance from Patna to Marhowra- 72Km (2Hrs.30Min.)}

7. Contact Detail of Greenfield Locomotive Project:-

SN	Name Shri	Designation	Contact No.
1.	Manish Kumar	CAO/GLP/ECR/PNBE	0612-2677894
2.	Shivendra Kumar	Dy.CEE/GELF/ECR/DMH	9771425392
3.	Pawan Kumar	Dy CE/Con/TS/MHX CUM Dy.CE/GELF/ECR/DMH	9771425267
4.	Manoj Kumar Gupta	Additional Charge Dy.CME/Diesel/ECR	9771425413
5.	Nair Eqbal Khan	AFA/GELF/ECR/DMH	9771425371

8. Organization chart of Greenfield Locomotive Project.

