



Notice No.2022/Elect(Dev)/440/5

**Notice Inviting Bid**

**for**

**Manufacturing and Maintenance**

**of**

**12000 hp Electric Locomotives**



**MAKE FOR THE WORLD**

under

**AATMA-NIRBHAR BHARAT**

**Date of Issue : 04.05.2022**

**Ministry of Railways  
Government of India**



GOVERNMENT OF INDIA (भारत सरकार)  
MINISTRY OF RAILWAYS (रेल मंत्रालय)  
RAILWAY BOARD (रेलवे बोर्ड)



NOTICE INVITING BID

Notice No.:2022/Elect/Dev./440/5

Date 04.05.2022

**Project: Manufacturing and Maintenance of 800 (eight hundred) 12000 hp Electric Locomotives.**

The President of India, represented by Ministry of Railways, Director Electrical Engineering (Development), Railway Board (the “**Authority**”), having its principal office at Rail Bhavan, Raisina Road, New Delhi-110001, India is engaged in the development of Railways and related infrastructure, and as part of this endeavour, the Authority has decided to undertake Manufacture and Maintenance of 800 (eight hundred) 12000 hp Electric Locomotives, through single stage two packet bidding system and has to carry out the Bidding process for selection of a Bidder to whom the Project may be awarded. A brief description of the Project may be seen in the Information Memorandum of the Project at the Authority’s website ([www.indianrailways.gov.in](http://www.indianrailways.gov.in)) Brief particulars of the Project are as follows:

“Manufacture and supply of 800 Electric Locomotive of 12000 horse power, twin Bo-Bo configuration (the “**Locomotive**”) spread over a period of 10 (ten) years at **Banaras Locomotive Works, Varanasi** by the selected bidder and Maintenance at nominated Government Depots over Indian Railways on the basis of a long term manufacture and maintenance contract (the “**Project**”).

The Bidding Documents can be viewed/downloaded from official portal of the Railway website <https://ireps.gov.in> from 09.05.2022. Bidder must submit its Technical Bid and Financial Bid at <https://ireps.gov.in> on or before upto 10.08.2022 at 11:00 hours IST. Bids received online shall be opened on 10.08.2022 at 11:30 hours IST.

Bid submitted through any other mode shall not be entertained. Power of Attorney and Joint Bidding Agreement etc. shall be submitted physically by the Bidder on or before 10.08.2022 at 11:00 hours IST. Please note that the Authority reserves the right to accept or reject all or any of the Bids without assigning any reason whatsoever.

For further details please contact:

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Website: [indianrailways.gov.in](http://indianrailways.gov.in)

## Information Memorandum

1. 12000 hp, 8 axles, twin Bo-Bo configuration Locomotive to be utilized all over Indian Railways Routes and DFC Routes for hauling 6000T load with average speed of 75 kmph by single loco (Grade: 1 in 200).
2. **Project Title** : Long Term Manufacture-Cum-Maintenance Agreement of 12000 hp Electric Locomotive by selecting a Technological Partner through transparent bidding process.
3. **Manufacturing Unit** : Banaras Locomotive Works (BLW), Varanasi, Uttar Pradesh by upgrading of existing facilities and developing of additional facilities as required.
4. Locomotive to be manufactured at Banaras Locomotive Works (BLW), Varanasi, Uttar Pradesh, using Railway Manpower.
5. Nominated Government Maintenance Depots for Maintenance with holding capacity of 300 at Kanpur(U.P.), 250 at Sabarmati (Gujrat) and 250 at Tuglakabad (Delhi).
6. **Supply Period** :

<b>Accounting Year</b>	<b>Yearly to be supplied</b>	<b>Cumulative Supply</b>
1 <sup>st</sup> Year (2023-24)	5	5
2nd Year (2024-25)	35	40
3 <sup>rd</sup> Year (2025-26)	60	100
4th Year (2026-27)	100	200
5 <sup>th</sup> Year (2027-28)	100	300
6th Year (2028-29)	100	400
7th Year (2029-30)	100	500
8th Year (2030-31)	100	600
9th Year (2031-32)	100	700
10th Year (2032-33)	100	800
<b>Total</b>	<b>800</b>	

**7. Obligations of the Government :**

- i. The Government will hand over sites for developing the manufacturing and maintenance facilities.
- ii. The Government will provide an adequate number of its staff at the manufacturing unit and at Government maintenance depots as per Good Industry Practice.
- iii. The Government shall arrange water and electricity for the Manufacturing and Maintenance Site at free of cost.

**8. Obligations of the Technological Partner:**

- i. The Technological Partner will upgrade the existing facilities and develop the additional facility at Manufacturing Site and Maintenance Site as required, at its own cost and expense.
- ii. The Technological Partner shall maintain all the infrastructures, facilities and equipment installed at Manufacturing Unit and Maintenance Depots utilising for manufacturing and maintenance purpose.

**9. Locomotive Maintenance Period:**

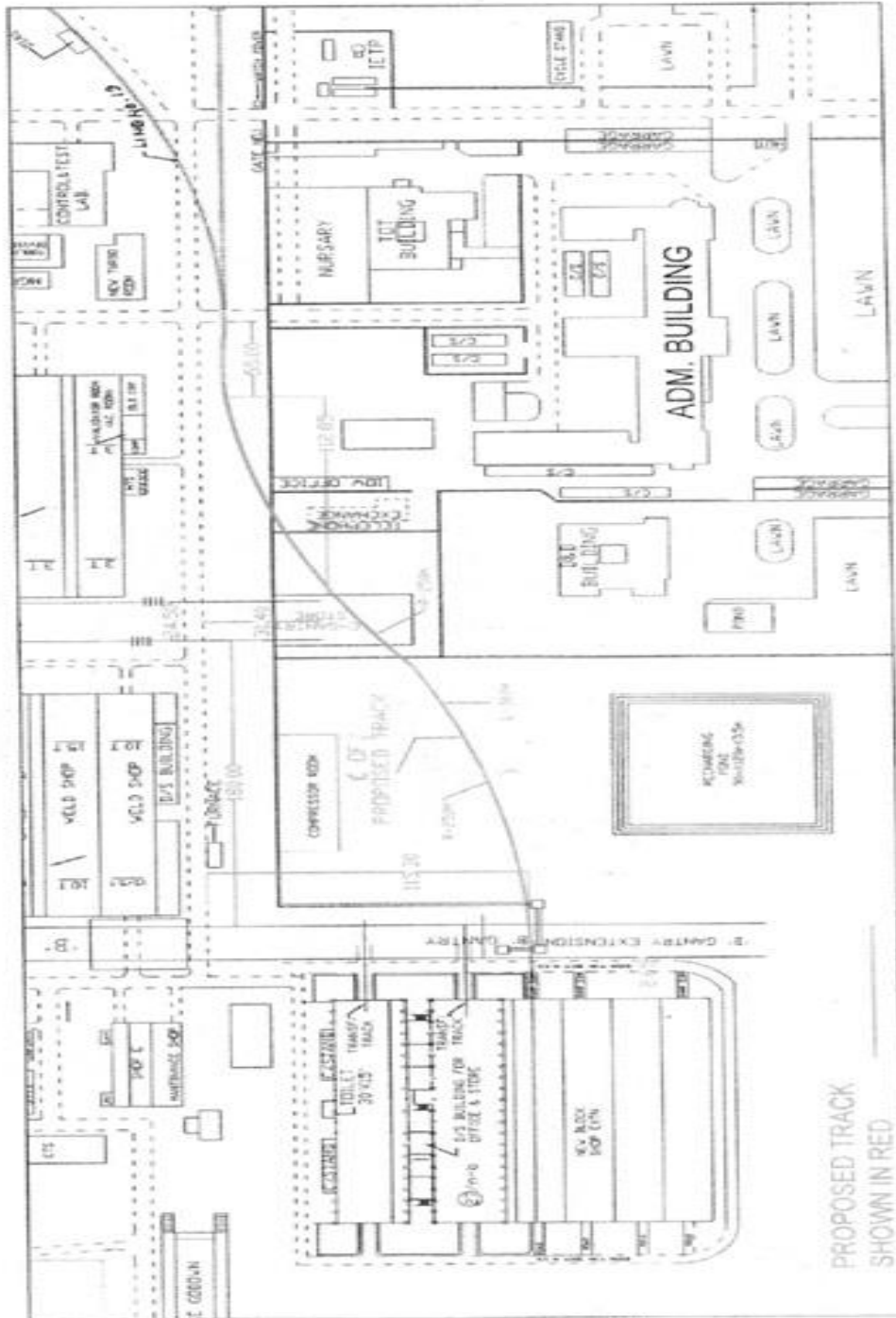
Year	Accounting Year	To be Supplied	Cumulative Supply	Kanpur	Sabarmati	Tuglakabad	
Appointment Year	2022-23	0	0	x	x	x	
1st Year	2023-24	5	5	5	x	x	
2nd Year	2024-25	35	40	40	x	x	
3rd Year	2025-26	60	100	100	x	x	
4th Year	2026-27	100	200	200	x	x	
<b>5th Year</b>	<b>2027-28</b>	<b>100</b>	<b>300</b>	300	x	x	
6th Year	2028-29	100	400	Scheduled Maintenance	100	x	
7th Year	2029-30	100	500		200	x	
8th Year	2030-31	100	600		250	50	
9th Year	2031-32	100	700		Scheduled Maintenance	150	
<b>10th Year</b>	<b>2032-33</b>	<b>100</b>	<b>800</b>			250	
11th Year	2033-34	x	x			Scheduled Maintenance	Scheduled Maintenance
12th Year	2034-35		POH-		5		
13th Year	2035-36	x	POH-		40		
14th Year	2036-37	x	POH-		100		
15th Year	2037-38	x	POH-		200		

16th Year	2038-39	x	POH-	300			
17th Year	2039-40	x	POH-	Scheduled Maintenance	100		
18th Year	2040-41	x	POH-		200		
19th Year	2041-42	x	POH-		250	50	
20th Year	2042-43	x	POH-		Scheduled Maintenance	150	
21st Year	2043-44	x	POH-			250	
22nd Year	2044-45	x	POH-				
23rd Year	2045-46	x	POH-			5	
24th Year	2046-47	x	POH-			40	
25th Year	2047-48	x	POH-			100	
26th Year	2048-49	x	POH-			200	
27th Year	2049-50	x	POH-	300			
28th Year	2050-51	x	POH-	Scheduled Maintenance		100	
29th Year	2051-52	x	POH-			200	
30th Year	2052-53	x	POH-		250	50	
31st Year	2053-54	x	POH-		Scheduled Maintenance	150	
32nd Year	2054-55	x	POH-			250	
33rd Year	2055-56	x	x				
34th Year	2056-57	x	x				
35th Year	2057-58	x	x				
36th Year	2058-59	x	x				
37th Year	2059-60	x	x				
38th Year	2060-61	x	x				
39th Year	2061-62	x	x				
40th Year	2062-63	x	x				
41st Year	2063-64	x	x	x			
42nd Year	2064-65	x	x	x			
43rd Year	2065-66	x	x	x			
44th Year	2066-67	x	x	x	x		
45th Year	2067-68	x	x	x	x		
				<b>35 Years</b>	<b>35 Years</b>	<b>35 Years</b>	
POH at Kanpur Depot							
POH at Sabarmati Depot							
POH at Tuglakabad Depot							

**10. Equity Participation by IR: Nil.**

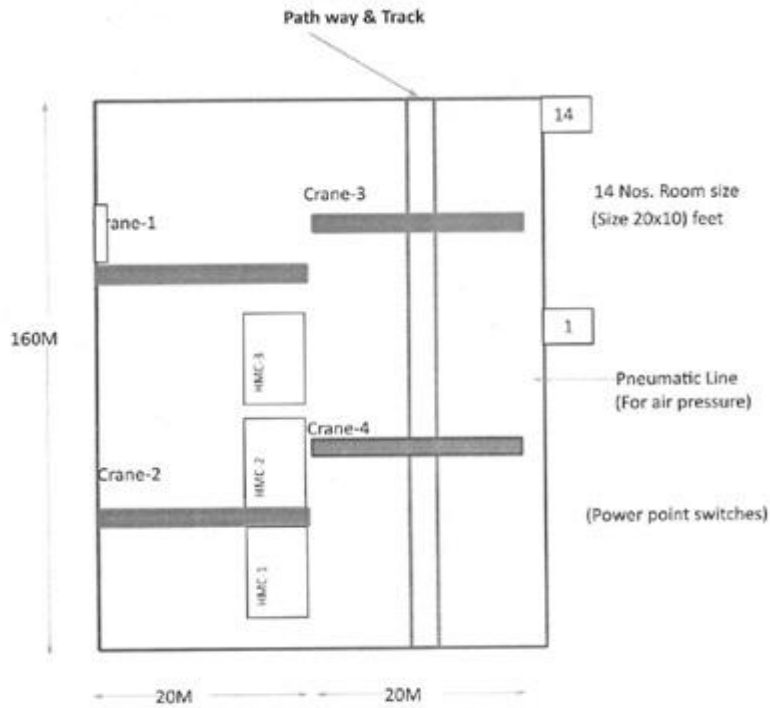
11. Bidding Process: Single stage two packet bidding process.

12. BLW Layout:



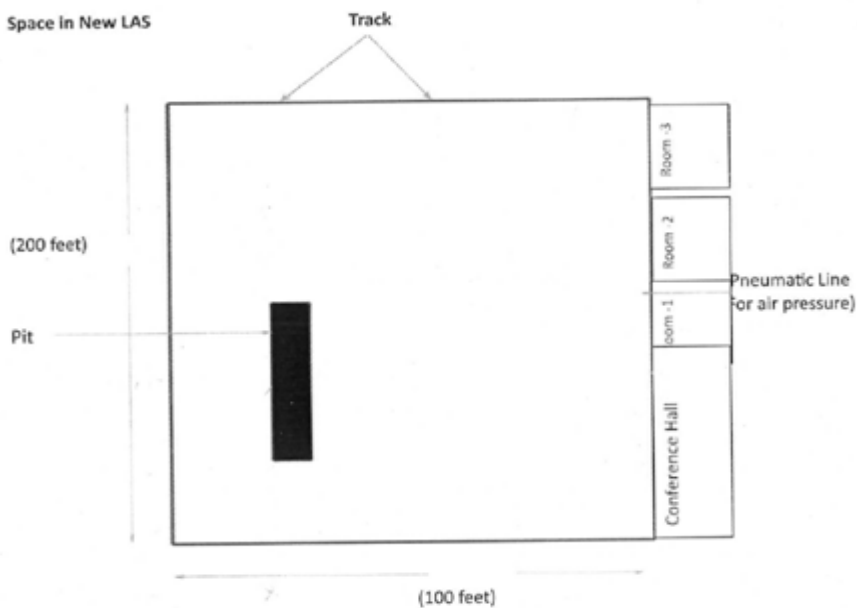
Manufacturing of Traction motors for 9000 HP new technology electric freight locomotive

Space In New Block Shop



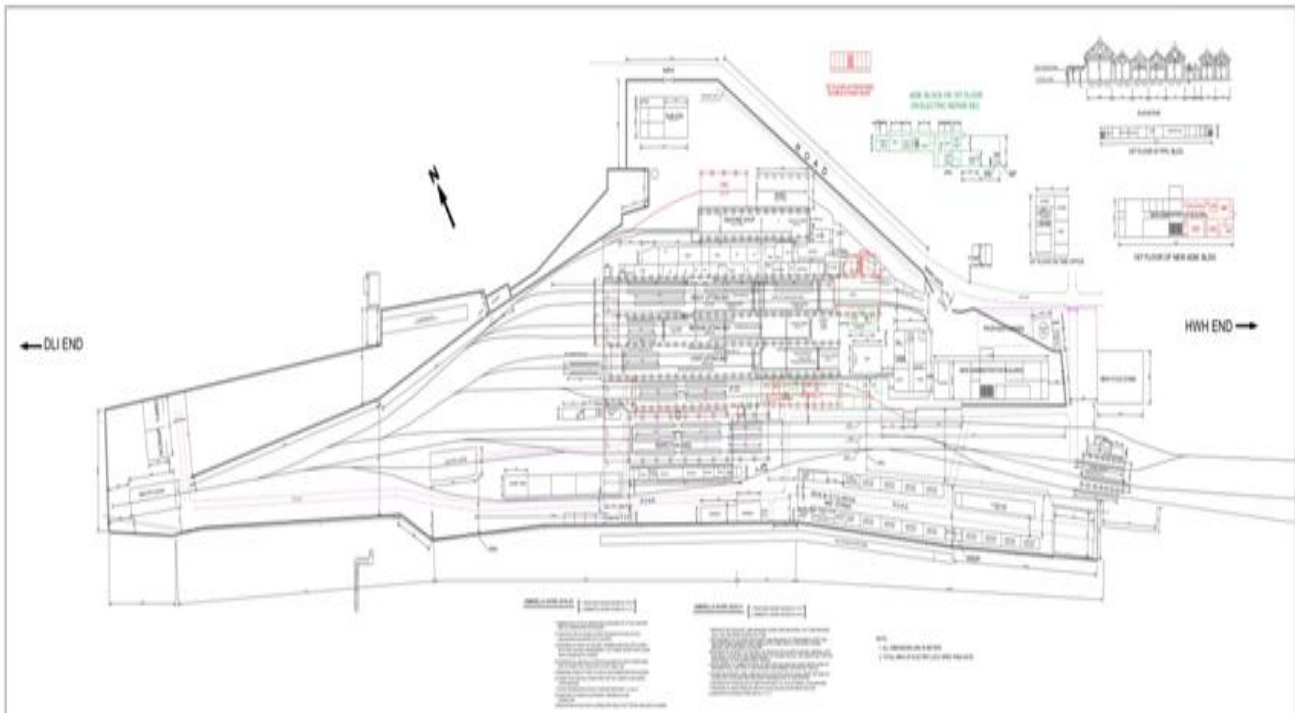
- Four Nos. EOT Crane, Rating 15/5 T Each.
- Five nos. jack, Rating 35 T (Each)
- Pneumatic line (For air pressure)
- Fourteen Nos. Rooms Size 20x10 feet.
- Power Point Plugs & Switches
- HMC 1,2,3 with 1200mm X 1200mm envelope size 4/5 Axis

Space In New LAS



- One No. EOT Crane, Rating 5T.
- Pneumatic line (For air pressure)
- Three Nos. Rooms and one Conference Hall currently under use.
- Power Point Switches

### 13. Kanpur layout:

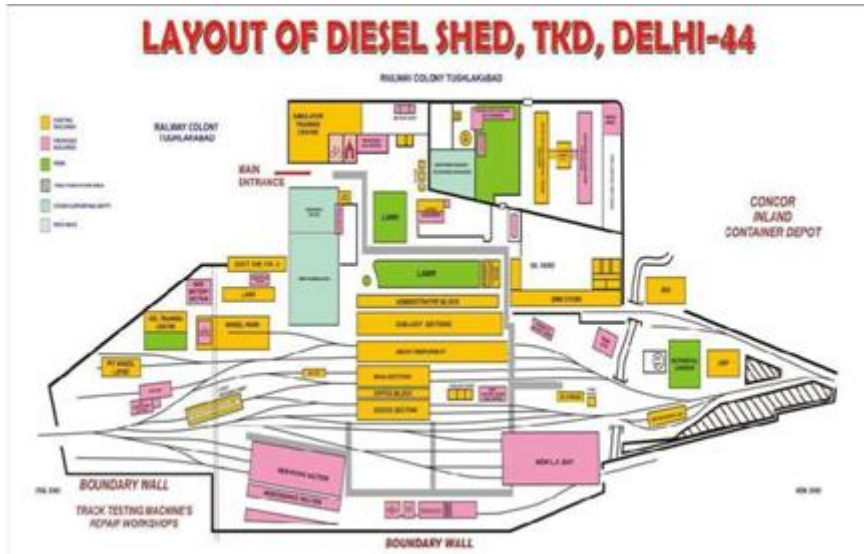


#### Infrastructure and Facility available at ELS/CNB/NCR

S/N	Description	Existing	Will be available after implementation of sanctioned umbrella work
1.	Covered Shed Area	11,986 square meter	13,849.96 square meter
2.	Total Area	76,424 square meter	76,424 square meter
3.	Track Lines	11 Nos	11 Nos
4.	Bays	5 Nos	5 Nos
5.	Details of Pits	<p><b>In Inspection Bay (Total – 13 Nos Pits)</b>                      6 Pits (27.5 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      3 Pits (25 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      4 Pits (27.9 Length X 1.5 Width X 1.2 Depth in Mtrs.)</p> <p><b>In Heavy Lifting Bay (Total – 06 Nos Pits)</b>                      1 Pit (43 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      3 Pit (19.5 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      1 Pit (22.9 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      1 Pit (11.8 Length X 1.5 Width X 1.2 Depth in Mtrs.)</p> <p><b>In Medium Lifting Bay (Total – 02 Nos Pits)</b>                      1 Pits (18.5 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      1 Pits (20 Length X 1.5 Width X 1.2 Depth in Mtrs.)</p> <p><b>In Medium Lifting Bay (Total – 02 Nos Pits)</b>                      2 Pits (23.4 Length X 1.5 Width X 1.2 Depth in Mtrs.)</p> <p><b>2 Nos pit wheel lathe</b></p>	<p><b>In Inspection Bay (Total – 17 Nos Pits)</b>                      6 Pits (27.5 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      7 Pits (25 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      4 Pits (27.9 Length X 1.5 Width X 1.2 Depth in Mtrs.)</p> <p><b>In Heavy Lifting Bay (Total – 06 Nos Pits)</b>                      1 Pit (43 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      3 Pit (19.5 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      1 Pit (22.9 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      1 Pit (11.8 Length X 1.5 Width X 1.2 Depth in Mtrs.)</p> <p><b>In Medium Lifting Bay (Total – 02 Nos Pits)</b>                      1 Pits (18.5 Length X 1.5 Width X 1.2 Depth in Mtrs.)                      1 Pits (20 Length X 1.5 Width X 1.2 Depth in Mtrs.)</p> <p><b>In Medium Lifting Bay (Total – 02 Nos Pits)</b>                      2 Pits (23.4 Length X 1.5 Width X 1.2 Depth in Mtrs.)</p> <p><b>3 Nos pit wheel lathe</b></p>
6.	Covered Shed Loco capacity	23	27
7.	Homing Capacity	175	225
8.	Holding	255 (as on 01.02.2022)	300
9.	Rooms in service building	65 Nos	62 Nos



## 14. Tuglakabad layout:



### Infrastructure and facilities available at Diesel Shed, Tughalakabad

S. No.	Description	Status
1.	Covered shed Area	15314.5 Sq. M
2.	Total Area	1,10,000 Sq. M
3.	Track lines	12
4.	Bays	5
5.	Details of pits	Goods Bay- 60M Long two Lines Mail Bay- 60M Long Two Lines HHP Shed- 65M Long Four Lines HR Bay – (60M x 2) One line Bogie Shed 30M, 37M, 28M long three lines
6.	Covered Shed loco capacity	27
7.	Homing capacity	175
8.	Holding as on 25.02.2022.	273 (11 types of Diesel + Electric locomotives)
9.	Rooms in Service building	36

# 15. Sabarmati layout:

