



Notice No.2022/Elect(Dev)/440/2

Notice Inviting Bid

for

Manufacturing and Maintenance

of

9000 Hp Electric Locomotives at DAHOD



MAKE FOR THE WORLD

under

AATMA-NIRBHAR BHARAT

Date of Issue : 20.04.2022

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./440/2

Date 20.04.2022

Project: Manufacturing and Maintenance of 1200 (twelve hundred) 9000 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 1200 (twelve hundred) 9000 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) Brief particulars of the Project are as follows:

“Manufacture and supply of 1200 Electric Locomotive of 9,000 horse power, Co-Co configuration (the “**Locomotive**”) spread over a period of 11 (eleven) year at **Rolling Stock Workshop, Dahod** 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 27.04.2022 to 10.06.2022 (upto 17.00 Hrs. IST). Bidder must submit its Financial Bid and Technical Bid at <https://ireps.gov.in> on or before upto 24.08.2022 at 11:00 hours IST. Bids received online shall be opened on 24.08.2022 at 11:00 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 24.08.2022 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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Information Memorandum

1. 9000 HP, 6 axle Co-Co Locomotive to be utilized all over Indian Railways Route for hauling 4500T load with average speed of 75 kmph by single loco (Grade: 1 in 200).
2. **Project Title:** Manufacturing and Maintenance Agreement of 9000 HP Electric Locomotive by selecting a Technological Partner through transparent bidding process.
3. **Manufacturing Unit:** Rolling Stock Workshop, Dahod in Gujarat by upgrading of existing facilities and developing of additional facilities as required.
4. Locomotives to be manufactured, at Rolling Stock Workshop, Dahod using Railway Manpower.
5. Nominated Government Depots for Maintenance with holding capacity of 300 each at (i) Kharagpur (West Bengal) (ii) Visakhapatnam (Andhra Pradesh) (iii) Raipur (Chhattisgarh) and (iv) Pune (Maharashtra).
6. **Supply Period:**

Accounting Year	Yearly to be supplied	Cumulative Supply
1 st Year (2023-24)	5	5
2 nd Year (2024-25)	35	40
3 rd Year (2025-26)	80	120
4 th Year (2026-27)	80	200
5 th Year (2027-28)	100	300
6 th Year (2028-29)	100	400
7 th Year (2029-30)	160	560
8 th Year (2030-31)	160	720
9 th Year (2031-32)	160	880
10 th Year (2032-33)	160	1040
11 th Year (2033-34)	160	1200
Total	1200	

7. Obligations of the Government:

- i. The Government will hand over sites for developing the manufacturing and maintenance facilities.
- ii. The Government will provide adequate number of its staff at the manufacturing unit and at maintenance sheds as per Good Industry Practice.
- iii. The Government shall arrange water and electricity for 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 Nominated Government Maintenance Depots 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 Government Maintenance Depots utilising for manufacturing and maintenance purpose.

9. Locomotive Maintenance Period:

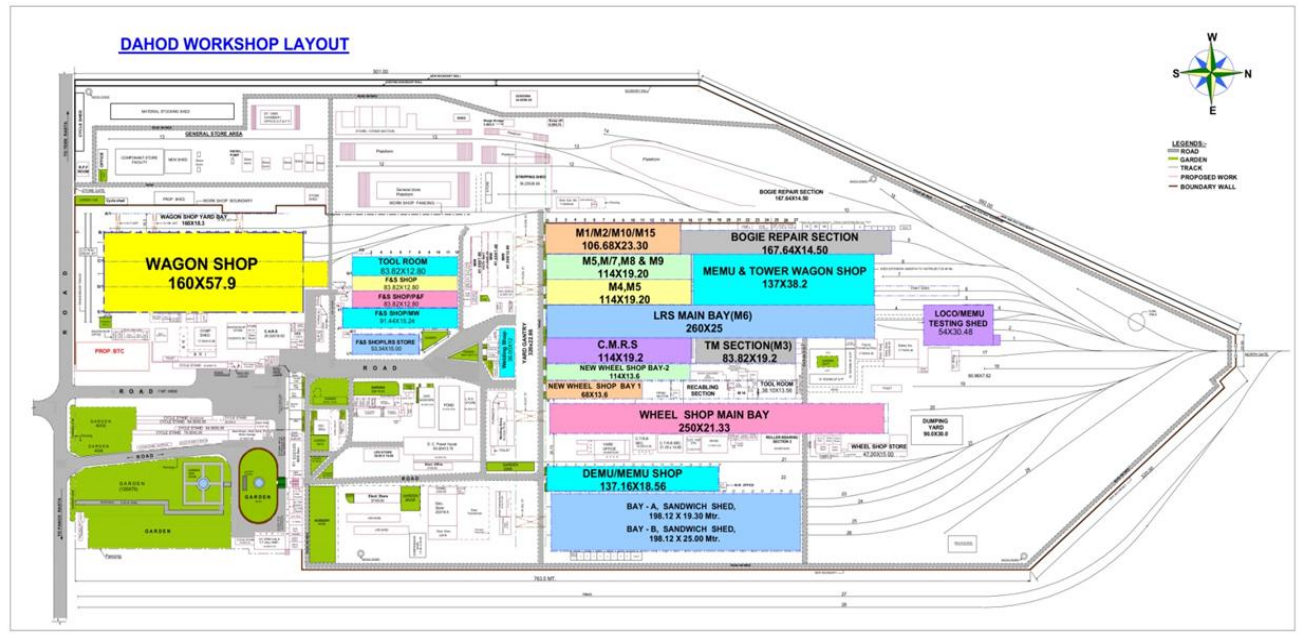
9000 hp Maintenance Programme							
Year	Accounting Year	To be Supplied	Cumulative Supply	Visakhapatnam	Raipur	Kharagpur	Pune
Appointment Year	2022-23	0	0	x	x	x	x
1st Year	2023-24	5	5	5	x	x	x
2nd Year	2024-25	35	40	40	x	x	x
3rd Year	2025-26	80	120	120	x	x	x
4th Year	2026-27	80	200	200	x	x	x
5th Year	2027-28	100	300	300	x	x	x
6th Year	2028-29	100	400	Scheduled Maintenance	100	x	x
7th Year	2029-30	160	560		260	x	x
8th Year	2030-31	160	720		300	120	x
9th Year	2031-32	160	880		Scheduled Maintenance	280	x
10th Year	2032-33	160	1040			300	140
11th Year	2033-34	160	1200			Scheduled Maintenance	300
12th Year	2034-35	x	POH-	5			Scheduled Maintenance
13th Year	2035-36	x	POH-	40			
14th Year	2036-37	x	POH-	120			
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-		260		
19th Year	2041-42	x	POH-		300	120	
20th Year	2042-43	x	POH-		Scheduled Maintenance	280	
21st Year	2043-44	x	POH-			300	140
22nd Year	2044-45	x	POH-			Scheduled Maintenance	300
23rd Year	2045-46	x	POH-	5			Scheduled Maintenance
24th Year	2046-47	x	POH-	40			
25th Year	2047-48	x	POH-	120			
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-		260		
30th Year	2052-53	x	POH-		300	120	
31st Year	2053-54	x	POH-		Scheduled Maintenance	280	
32nd Year	2054-55	x	POH-			300	140
33rd Year	2055-56	x	POH-			Scheduled Maintenance	300
34th Year	2056-57	x					Scheduled Maintenance
35th Year	2057-58	x					
				35 Years	30 Years	28 Years	26 Years
POH at Visakhapatnam Depot							
POH at Raipur Depot							
POH at Kharagpur Depot							
POH at Pune Depot							

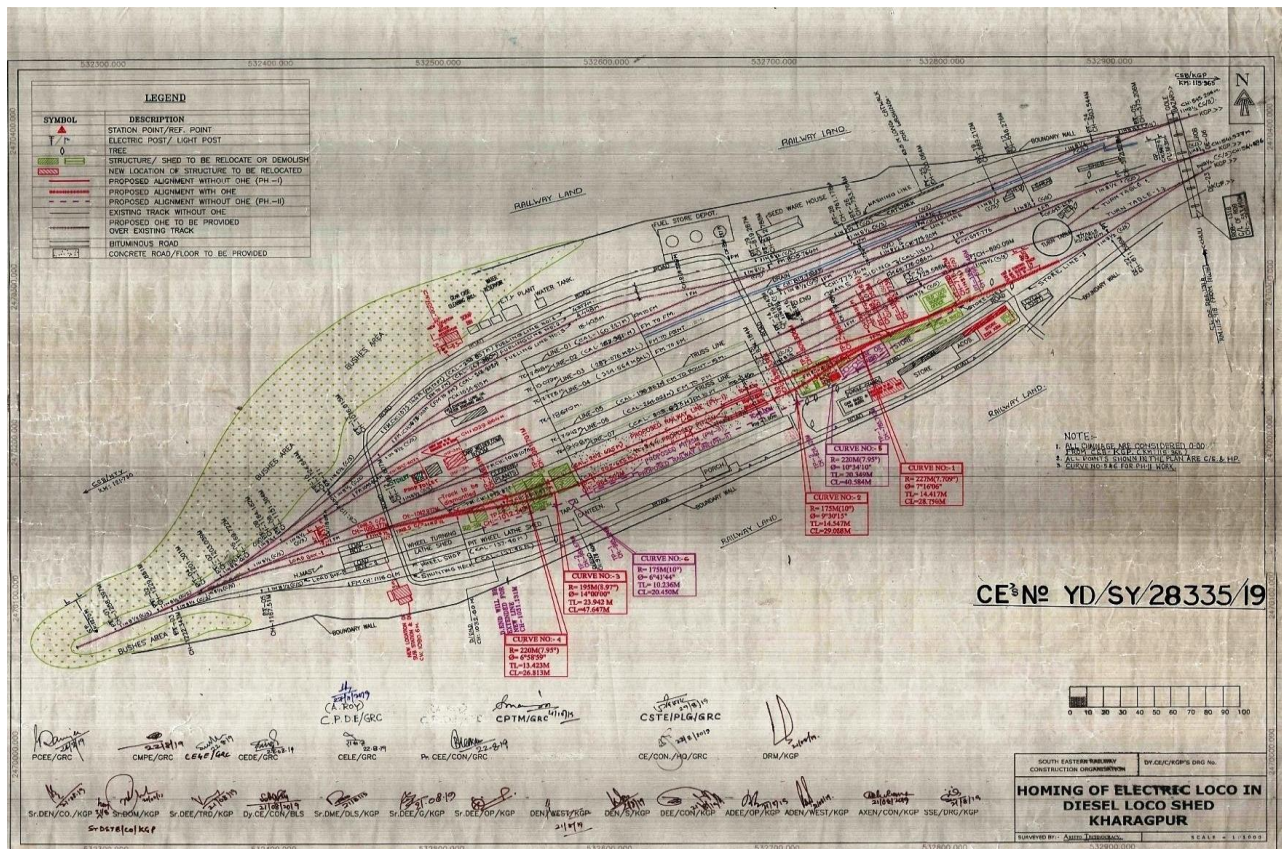
10. Equity Participation by IR – Nil.

11. Bidding Process:- Single stage two Packet Bidding Process.

12. Layout of Dahod Workshop



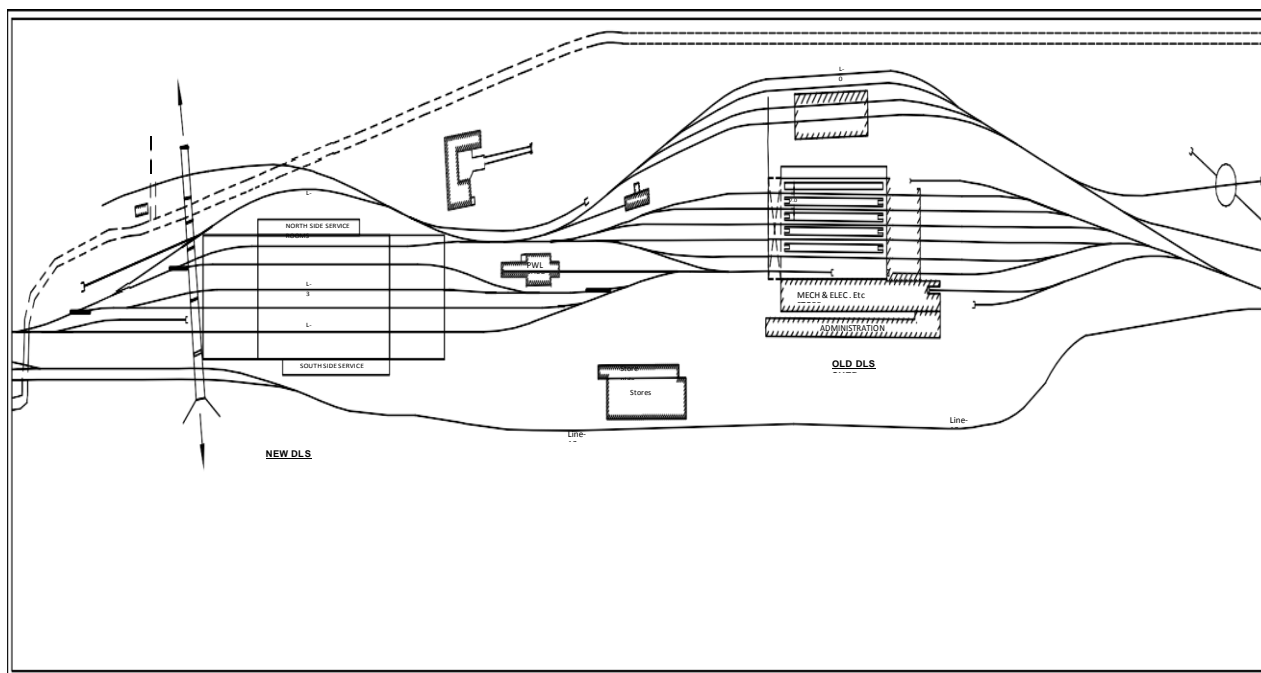
13. Layout of Kharagapur Depot



Infrastructure and facilities available at ELS/KGP (erstwhile DLS/KGP)

S. No.	Description	Existing shed
1	Cover shed Area	10005.66 Sq. M.
2	Total area	24.415 Acres
3	Track Lines	9 Nos.
4	Bays	6 Nos.
5	Details of pits	(i) 72.5 mts long inspection pits having 4 Lines for minor schedule (ii) 72.5 mts long pits having 2 Lines as Light lifting bay (iii) 126.5 mts having 2 lines in heavy Repair Bay. It has one 50 m and one 25m pits. (iv) 126.5m having one line as Medium Repair Bay. It has one pit of 25m long.
6	Covered shed Loco capacity	22 electric locos
7	Homing Capacity	120 electric locos
8	Holding as on 01.02.2022	Electric Loco WAG7-151 DEMU DPC-09, SPIC-01
9	Rooms in Service Building	15 Nos. in Ground Floor + 10 Nos. in Catwalk Bays line No.4 & 5 Total = 25 Rooms

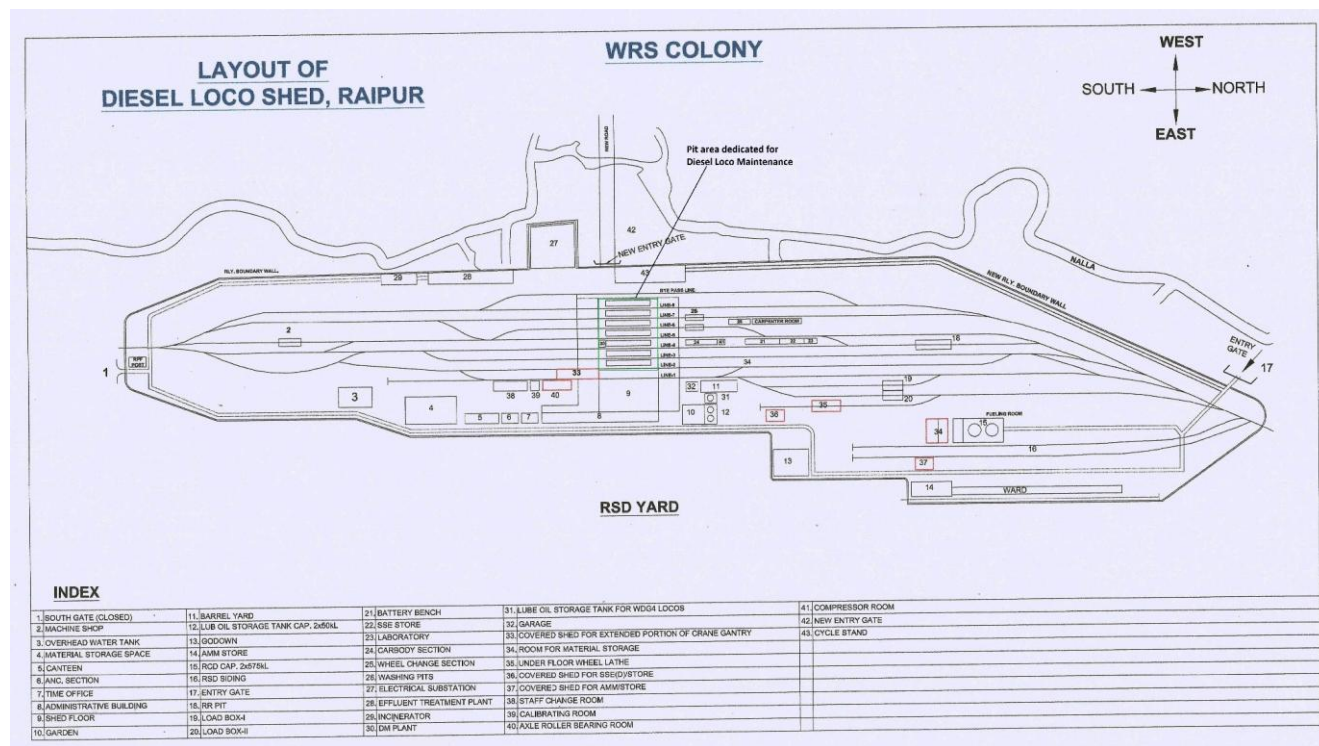
14. Layout of Visakhapatnam Depot



Infrastructure and Facilities available at DLS/VSKP

S.N o.	Description	Old Shed	New Shed
1	Covered Shed Area	9880.5 Sq.M	6708 Sq.M
2	Total Area	21.27 Acres	10.3 Acres
3	Track Lines	9	6
4	Bays	6	5
5	Details of pits	115 Mts long pit (Coaching Bay- 02 lines), 99 Mts (Light Sch. / Heavy Sch.Bay-04 lines) (All lines full length pit) All lines non electrified .	a) 02 nos of pits, length 120 Mts each in inspection bay (L1 & L2 Electrified) b) 05 nos of pits, length 26 Mts each in HR bay- 02 lines (L3 & L4) 03 loco lifting capacity. c) 02 nos of pits, length 26 Mts each in LR bay-01 line (L5)
5	Covered shed LocoCapacity	25	13
6	Homing Capacity	150	100
7	Holding as on 01.02.22 (Total Holding – 371)	Diesel – 287, (GRS locos 33)	Elec – 84 As per FOIS 130
8	Rooms in service building	44	23

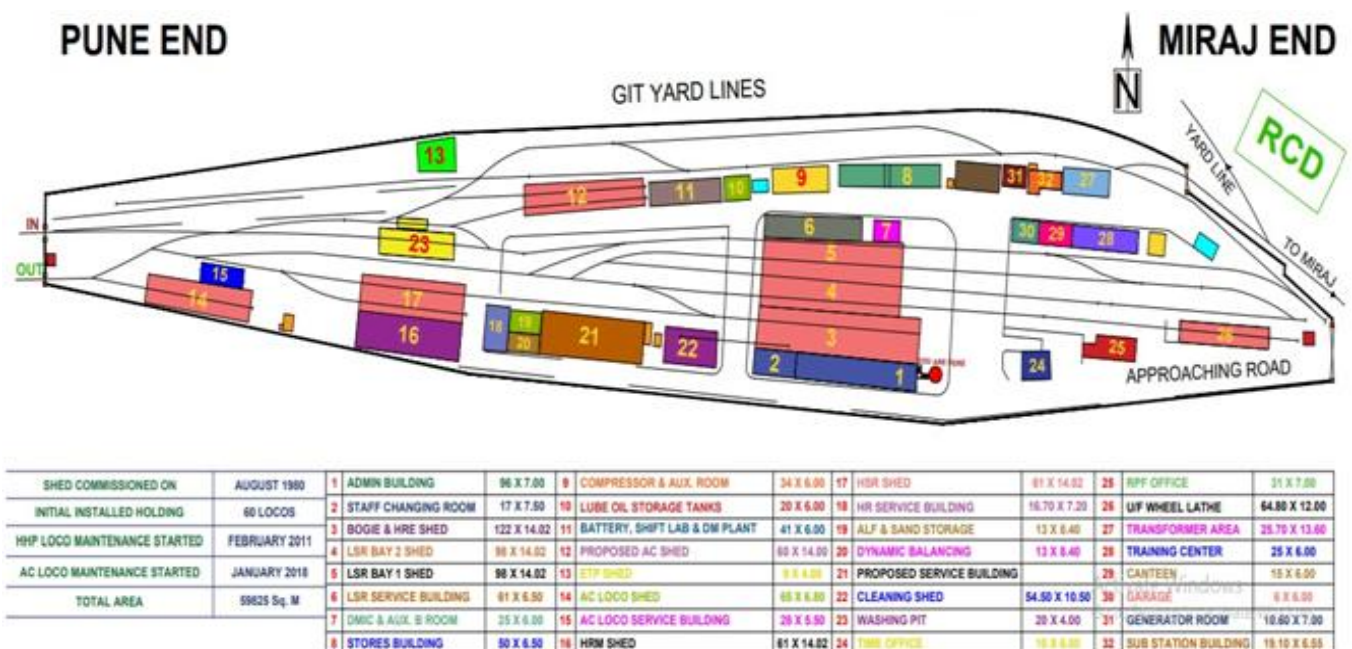
15. Layout of Diesel Loco shed, Raipur



Existing infrastructure availability at DLS/Raipur:

- 06 nos. Pits (inspection bays) dedicated for maintenance of diesel locomotives. The lengths of the pits are 55 meters having with the provision of CATWALKS.
- Some sections like Heavy Schedule, Light Schedule, Control Room, DM Plant, oil room etc. are located between Pit No. 2 and 3.
- All the above 06 nos. pits are provided with EOT cranes of capacity 3 ton (Total 6 nos. cranes)
- Bogie inspection bay with 02 nos. cranes of 50 T capacities.
- 02 nos.EOT cranes of capacity 15 ton at bench area.
- Shed area covered: 1.5 lakh Sq.mtr.
- A small covered Shed at line No.1 in DLS/R, Size:25 Meters. X 5 Meters for minor inspection of electric locos.

16. Layout of Diesel Loco Shed, Pune



Infrastructure and Facilities available at DLS/Pune

S N	Description	Old Shed	New shed
1	Covered shed area	15478 m ²	1436 m ²
2	Total area	59825 m ²	1436 m ²
3	Track lines	9	2
4	Bays	9	2
5	Details of pit	4 nos of 98mlong pit 1 no of 122m long pit2 nos of 61m long pit1 no of 20m long pit 1no of 65m long pit	2 nos of 60 m long pit
6	Covered shed loco capacity	22 (Diesel) + 3(AC loco)	4 (AC loco)
7	Homing Capacity	88 (Diesel) + 24(AC loco)	32(AC loco)
8	Holding as on 01.02.2022	189 Diesel	0
9	Area of service building	1022 m ²	154 m ²