

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI

Locomotive Manufacturing Deptt.

TENDER DOCUMENT

TENDER ENQUIRY NO. : LMM/TW/24-25/001

DATE:- 20/08/2024



TENDER DOCUMENT

For Works Contract

For Tender Enquiry No : LMM/TW/24-25/001

For

Works contract for Manufacturing Activities of DESL at LMM shop,
BHEL Jhansi

Contact Person :

Name : Monika

Designation :Sr.Mgr (MM-3)

Email : monikav@bhel.in

PH : 0510 – 2770001 – 2414

Tender Due Date : 27/08/2024 at 13 :15 Hrs

Tender Opening Date : 27/08/2024 at 14 :00 Hrs

Material Management Department

BHEL, PO : BHEL, Jhansi 284120 (UP)

Detail of Bidder and Documents to be submitted along with Technical Bid

Please number your documents in continuation with tender documents at bottom (footer) of page.

S.No.	Particular	Detail	
1.	Name of the firm		
2.	Name of the Proprietor/Partners		
3.	Address		
4.	Mobile No.		
5.	E-mail ID		
Documents			
	Particular	Detail	Page No
6.	Acceptance of Terms & conditions Signature on all pages without conditions of contractor	Submitted/ Not submitted	
7.	Blank price bid format duly signed by the contractor.	Submitted/ Not submitted	
8.	Copy of ESI Registration	ESI No-	
9.	Copy of PAN card	PAN No-	
10.	Copy of GST registration	GST No-	
11.	Self declaration as per annexure V on letter head.	Submitted/ Not submitted	
12.	Copy of ownership of firm	Submitted/ Not submitted	
13.	Reciept of tender fees deposition	Amount	
14.	Reciept of EMD deposition	Amount	
15.	Copy of turn over and income tax return for last three year i. 2021-22 ii. 2022-23 iii. 2023-24	Submitted/ Not submitted	

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

16.	Documentary proof (Completion Certificate and WO/PO / LOI) & TDS certificate issued from traces (Form16A) for the experience performance report issued by Customer for successful execution of the requisite value is to be submitted. In case experience is submitted for work done in BHEL, TDS certificate is not required	Submitted/ Not submitted	
17.	Copy of PF registration	PF No-	

We will fulfill all the obligations of the contractor and abide by the terms & Conditions mentioned in the enquiry.

Date :-

Signature With Name & Seal

We hereby accepted above (Signature & seal of bidder)

Seal & Signature OF BHEL contracting authority

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024****TABLE OF CONTENTS****PART I: TECHNO-COMMERCIAL BID**

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11.	SOP For Implementation of Risk and Cost	29

Part II:**PRICE BID****(Separate envelope)**

S. No.	Section	Page No.
1.	PRICE BID (JS-146)	30

We hereby accepted above (Signature & seal of bidder)**Seal & Signature OF BHEL contracting authority**

NOTICE INVITING TENDER



BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024****1- NOTICE INVITING TENDER**

S. No.	Particulars	Details
1.	Name of work	Works contract for Manufacturing Activities in following DESLs.3 nos. 700 HP TPP DESL,2 nos. 700 HP Dual Cab DESL2 no. 1400 HP DESL DESL Bogies,GE bogies and Wheel Axle Sets at LMM shop, BHEL Jhansi
2.	Tender Evaluation Criteria	As per GTC issued by "Central Contracting Cell" and Tender Documents.
3.	Duration of the Contract	7 Months from the date of award of work order
4.	Last date of receipt of the Tender	(As on page # 1)
5.	Date of opening Tender	(As on page # 1)
6.	Address for submitting the tender	(As on page # 7)
7.	Earnest Money Deposit (EMD)	Rs 19,976 for Non -MSME Rs. 0 for MSME
8.	Cost of tender (Non refundable)	Nil
9.	Validity of Offer	120 days
10.	Defect liability period	One year from the date of work order completion
11.	MSME Benefit	As per attached PQR
12.	Start-up scheme Benefit	Not Applicable

Note: The EMD may be accepted only in the following forms:

(i) Electronic Fund Transfer credited in BHEL account (before tender opening)

BHEL account details: Bank Name: - SBI; A/c No.:- 10670828866; IFSC Code:- SBIN0003807 A/c

Holder Name:- BHARAT HEAVY ELECTRICALS LIMITED

(ii) At BHEL cash office through POS machine **No Demand Drafts shall be accepted.**

The contractors may physically visit the work place before quoting their rates. For relevant details, please visit our website "www.bhel.com" & "www.eprocure.gov.in"

Note: BHEL takes no responsibility for any delay / loss of documents or correspondence sent by courier or post. Late tenders shall be rejected outright.

The techno-commercial bid comprising (i) all its sections, (ii) all enclosures in support of various clauses and requirements and (iii) EMD, shall be duly signed and sent in a sealed envelope boldly super-scribing **"PART-I TECHNO COMMERCIAL BID FOR " Works contract for Manufacturing Activities of DESL at LMM shop, BHEL Jhansi"**. Similarly, the Price-bid must be duly signed and sent in a sealed envelope boldly super-scribing **"PART-II PRICE "Works contract for Manufacturing Activities of DESL at LMM shop, BHEL Jhansi."** Both these envelopes shall be placed inside 3rd sealed envelope super-scribing "duly signed and sent in a sealed envelope boldly super-scribing **" Works contract for Manufacturing Activities of DESL at LMM shop, BHEL Jhansi."**

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The tender shall be addressed to as follows:

Name : Monika

Designation :Sr.Mgr (MM-3)

Email : monikav@bhel.in

PH : 0510 – 2770001 – 2414

Sealed Tenders can be submitted (i) personally, (ii) by Courier/Post

If submitted personally

Tender Box

Security Control Room/Office

Administrative Building

Bharat Heavy Electricals Limited

Jhansi-284120 (U P)

Or if sent through Courier / Post

Office of

Name : Monika

Designation :Sr.Mgr (MM-3)

Email : kevre@bhel.in

PH : 0510 – 277001 – 2414

Or if sent through email

Email Id: tenderbox.jhs@bhel.in

(Kindly do not send on any other email id of any official of BHEL)

Part-I Techno Commercial bid:

Part I of the sealed tenders alone will be opened by BHEL in the presence of tenderers who are present at the time & place of opening. A signed blank price-bid copy should be enclosed with this bid. The spaces for prices should be crossed (x).

Part-II Price bid: The price bid should contain prices only. Price bid will be opened only for the parties who qualify in techno commercial bid.

TO BE SIGNED BY THE TENDERER

Certified that all Sections of the Tender have been read / complied & agreed to, and each page of the tender offer has been signed & stamped.

(Signature of Authorized person(s))

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024****Brief Description of Work / Scope of work****1. SCOPE OF WORK OF THE CONTRACTOR SHALL BE AS FOLLOWING:**

S.No.	Locos	Sections	Description of Work	UOM	Qty	Outsourced Man Hours /Job	Total Outsourced Man-Hours
		(A)	(B)	(C)	(D)	(E)	(F)=(E)x(D)
1	700 HP TPP	Loco Assy	Manufacturing activities of 700 HP DESL	Hrs	3	819.29	2457.86
		Bogie Assy	Manufacturing activities of 700 HP DESL	Hrs	3	486.89	1460.66
2	700 HP Dual Cab	Loco Assy	Manufacturing activities of 700 HP DESL Dual cab	Hrs	2	1587.20	3174.40
		Bogie Assy	Manufacturing activities of 700 HP DESL Dual cab	Hrs	2	454.98	909.95
3	1400 HP DESL	Loco Assy	Manufacturing activities of 1400 HP DESL	Hrs	2	1050.71	2101.42
		Bogie Assy	Manufacturing activities of 1400 HP DESL	Hrs	2	884.38	1768.76
4	GE Bogie set	Bogie Assy	Manufacturing activities of GE Bogies	Hrs	2	366.52	733.03
5	Wheel Axle Set	Bogie Assy	Manufacturing activities of Wheel Axle Set (DESL)	Hrs	19	8.86	168.41
							12774.50

NOTE: The Total work will be limited to 12774.50 technology hours only. BHEL Shall reserve rights to allot any of the Module activities of DESL to the Contractor limited to the maximum manhours mentioned in Column-F of the given table.

- The details of tentative work involved is given in Annex-B**
- The Contractor shall be responsible for complying with all the applicable statutory acts & laws. The Contractor has to depute at least 14 nos manpower (including at least 3 welders, 2 for A-shift and 1 for B-shift mandatorily), one supervisor to organize and supervise the work being done by contractor.**
- The work shall conform to dimensions and tolerances given in various drawings and documents that will be provided during assembly. If any portion of works is found to be defective in workmanship and not conforming to drawings / documents, the contractor shall dismantle and re-do the work duly replacing the defective materials at their own cost, failing which recoveries, as determined by BHEL, shall be deducted from contractor's bills.**

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- d. The above work shall be normally done in 1st and 2nd shift mandatorily. Work shall also be done on Sundays/Holidays as and when required. Contractor shall maintain proper record of attendance and same should be made available to BHEL on monthly basis.
- e. Welding machine /electrode, Paint gun, Grinder, buffing wheel, EOT cranes, Compressed air and other special tools and Fixtures shall be provided by BHEL free of cost. **PPEs shall be provided by contractor.**
- f. Maintaining proper documentation of all the activities undertaken by the Contractor as per the proforma provided by BHEL mentioning activities with manhours.
- g. BHEL, Jhansi is certified for ISO 9001-2015. Quality of work to customer's satisfaction and fulfilment of system requirements are the essence of ISO 9001 certification. BHEL, Jhansi has HSE certification (ISO 14001 & OHSAS 18001) and therefore Contractor also shall organize/ plan/ perform all their activities to meet with the applicable requirements of these standards.
- h. Measurement Book (MB) to be prepared Loco wise and Module wise by the contractor. Contractor should also get the MB verified by shop & CQX representative.
- i. The house keeping of the work area and maintaining work discipline shall be the contractor's responsibility.
- j. **Contractor is advised to visit the work place to know the work content before submission of quotation. The required documents/ drawing, area of work can be seen at our works.**

Note: The above work should meet the technical requirement of the BHEL and customer. Work should be carried out as per drawings, specification, standards, procedures, laid down by BHEL, which may get revised as per requirement from time to time. Party will be liable to follow drawings, standards, procedures that are in use at that time without any change in rates and terms and conditions of contract.

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024****Annexure-B****Detailed scope of Tentative work with Manhours is given below:****Loco Assembly Shop**

Loco		700 HP TPP DESL Loco	
Area		Loco Assy Shop	
S.No.	Module Nos	Activities	Manhours
1	6023	SAFETY GAURD FOR BLOWER & COMP V BELT MT	3.68
2	6024	SAFETY GAURD FOR BLOWER & COMP VBELTPP2	3.68
3	6026	S.STRUCTURE TACKING & WELDING PP-1	25.00
4	6027	S.STRUCTURE TACKING & WELDING PP-2	25.00
5	6028	CABIN TACKING & WELDING	20.00
6	6029	CHEQ. PLT. PREP.TACKING & WELD. PP-1	34.17
7	6030	CHEQ. PLT. PREP.LAYING TACKING AND WELD.PP-2	34.17
8	6031	WALKWAY PREP.MTG. TACKING WELDING	15.00
9	6032	WALKWAY PREP. MTG. TACKING	15.00
10	6033	AIRFILTER MTG & AIR INLET PIPING PP1	12.92
11	6034	AIRFILTER MTG & AIR INLET PIPING PP2	12.92
12	6039	PARTITON PANEL PREP & FITTING PP1	22.92
13	6040	PARTITION PANEL PREP & FITTING PP2	22.92
14	6041	RADIATOR GUARD FITTING PP1	2.50
15	6042	RADIATOR GAURD FITTING PP2	2.50
16	6045	OIL TRAY & DRAIN FILLING PP-1	3.33
17	6053	FLOOR PLT PRE &MTG IN CABIN	12.50
18	6078	AIRDUCT BELLOW FT WITH MOTOR	13.33
19	6079	CHEQ.PLT.COVER PLATE DISMENT. PP-1&2	6.67
20	Misc	Matl. Handling by Lifter within Shop / opening of packing	60.00
21	Misc	Inner panneling with glass wool	120.00
22	Misc	Bricks filling and cover fixing	24.00
23	Misc	Dressing of all welding and cutting area (Hood, Hand rail, chequered plate, rail guard, fuel tank, Cab, walkway,Toe Guard,control cabinet)	64.00
24	Misc	Glass and Window fixing in cabin	40.00
25	Misc	Loco Cleaning	64.00
26	Misc	Crane-Slinger Operation	100.00
27	Misc	Coolant & Oil filling, Water filling	40.00
28	Misc	Battery handling from charging room to shop,cleaning and acid/water filling.	20.00
		Total	820.19

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Loco		700 HP Dual cab DESL	
Area		Loco Assy Shop	
S.No.	Module No.	Activities	Manhours
1	07001	CHEQUERED PLATE DISMENTLING OF CAB 1&2	13.33
2	07009	FUEL TANK MOUNTING	16.67
3	07011	BOTTOM FLANG & INTET MTG ON FUEL TANK	6.67
4	07017	AIR DRYER MOUTNING ON PLATE WITH DRILLING	8.33
5	07025	WALKWAY CHEQUER PLATE MTG	33.33
6	07026	WALKWAY HAND RAIL MTG.	20.00
7	07035	SAFETY GUARD FOR COMP & BLOWER V-BELT	5.00
8	07036	SAFETY GUARD FOR BLOWER & AUX GENERATOR	5.00
9	07037	AIR INTAKE PREP & FITTING	21.67
10	07042	AIR FILTER MTG. (COR BODY)	20.00
11	07048	BELLOWS MTG UNDERFAME	13.33
12	07050	HOOD DOOR RUBBER SEALING	25.00
13	07051	CAB-1 PANEL DOOR RUBBER SEALING	3.33
14	07052	CAB-2 PANEL DOOR RUBBER SEALING	5.00
15	07053	DRIVER DESK MOUNTING CAB-1 2NOS	10.00
16	07054	DRIVER DESK MOUNTING CAB-2 2NOS	11.67
17	07057	FLOOR PLATE FIXING CAB -1	16.67
18	07058	FLOOR PLATE FIXING CAB -2	16.67
19	07070	BELLOW MOUTNING ON TRACTION MOTOR WITH JAALI	20.00
20	07080	BOTH OIL FILLING CAP HINGE COVER FIXING	10.00
21	07081	SILENCER HOOD FITUP	1.67
22	07084	CHEQUERED PLATE AND HAND RAIL MODIFICATIO WORK	13.33
23	07086	AIR INLET FILTER MTG BRKT PREP&FITT	16.67
24	07109	Leakage Arresting Below U/F	33.33
25	07110	Leakage Arresting Above U/F	33.33
26	07114	Wiper Motor Preparation and Mounting Both Cab	26.67
27	07146	All Pipe Clamping Below U/F	16.67
28	07147	All Pipe Clamping Above U/F	16.67
29	07150	Water Tank mounting Both Cabs	13.33
30	07151	Bogie Piping Leakage Arresting	16.67
31	07217	BATTERY PLACING & PACKING CAB 1 SIDE	10.00
32	07218	BATTERY PLACING & PACKING CAB2 SIDE	10.00
33	07303	BLOWER 2 DUCT & FLANGE WELDING	10.00
34	07304	COMPRESSOR BKT WELDING	6.67

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35	07305	FUEL TANK BRACKET WELDING	10.00
36	07306	SILENCER HOOD WELDING	3.33
37	07307	SILENCER BKT WELDING	3.33
38	07308	AIR INTEK BKT WELDING	2.50
39	07309	OIL TREY WELDING	0.83
40	07310	AG PAD WELDING	4.17
41	07311	AUX DRIVE PAD WELDING	6.67
42	07312	BLOWER DUCT MODIFICATIO & WELDING E-1	13.33
43	07313	BLOWER DUCT WELDING E-2	5.00
44	07314	HAND BRAKE PREP & ASSY WELDING	10.00
45	07315	AIR INTAKE PIPE SUPPORT WELDING	2.50
46	07316	HOOD FINAL WELDING	40.00
47	07317	CAB-1 FINAL WELDING WITH GUSSET AND SUPPORT	20.00
48	07318	CAB- 2 FINAL WELDING WITH GUSSET AND SUPPORT	20.00
49	07319	POWER PACK PADS FINAL WELDING	20.00
50	07320	HANDRAIL PAD WELDING	33.33
51	07321	CHEQRD PLT. FINAL WELDING	66.67
52	07322	LIFTING BKT. CUTTING U/ F.	6.67
53	07323	CABIN LIFTING BKT.CUTTING	3.33
54	07324	BALLAST BOX PLT. WELDING AND OIL LEVEL SCALE WELDING	3.33
55	07325	CHEQRDPLT.PREP	5.00
56	07326	EXHAUST PIPE THERMAL INSULATION	1.67
57	07327	BOTH BATTERY STOOL WELDING	3.33
58	07328	All Pneumatic pipe support welding B/U/F	66.67
59	07329	All Pneumatic pipe support welding A/U/F	41.67
60	07330	POWER CABLE LAYING PREP WELDING	6.67
61	07331	CONTROL CABLE LAYING PREP WELDING	6.67
62	07332	HOOD WIRING PREP STIFFNER WELDING AND HOOD BKT MTG WELDING	10.00
63	Misc	Rain Test	64.00
64	Misc	S-Curve Test	16.00
65	Misc	Long Run	36.00
66	Misc	Customer Inspection (Electrical/Mech/Pneumatic)	75
67	Misc	Testing Booking and final cover fixing	64
68	Misc	Items replacement failed during testing	24
69	Misc	Shop QC stage Inspection (GI electrical/mech/piping/Undergear)	100
70	Misc	Shunting ,Loading of Loco	60
71	Misc	Pipe Threading	64
72	Misc	Packing filling in both cabins and hood	60
73	Misc	Platform Assy preparation and fixing	100
Total			1586.33

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Loco		1400 HP DESL	
Area		Loco Assy Shop	
S.No	Module	Activities	Manhours
1	14080	Air Dryer mounting plate Preparation and mounting	13.33
2	14081	RESERVOIR SUB-ASSY	13.33
3	14085	FUEL LEVEL INDICATOR MTG	3.33
4	14089	SUPER STRUCTURE TRIAL MTG & DISMENTLING	16.67
5	14094	ENGINE OIL TRAY MTG & DRAINING	6.67
6	14095	CHEQUER PLATE ASSY AT WALK WAY	31.67
7	14096	HAND RAIL MTG	15.00
8	14100	HYDRAULIC TANK MTG.	8.33
9	14103	SUPER STRUCTURE MTG	20.00
10	14106	Air Inlet Filter MNTG ,EXHAUST & AIR INLET PIPE ASSY with Silencer MNTG	30.00
11	14107	DYNAMIC AIR FILTER and DUST BLOWER MTG	13.33
12	14115	CHEQUERED PLATE ASSY IN CAB	16.67
13	14116	DRIVERS'S SEAT MTG	6.67
14	14118	HYDRAULIC COOLER (OIL)MTG	13.33
15	14120	HAND BRAKE ASSY	20.00
16	14124	RADIATOR MTG STOOL PREPRATION	26.67
17	14125	RADIATOR MTG ON STOOL	8.33
18	14126	RADAITOR MTG ON U/F	10.00
19	14127	RADIATOR AND ENGINE PIPING	66.67
20	14130	SUPER STRUCTURE FINAL MTG	26.67
21	14131	SUPERSTRUCTURE DOOR RUBBER SEALING	20.00
22	14132	CABIN DOOR RUBER SEALING	13.33
23	14134	BELLOW CONNECTION ON TRACTION MOTOR	15.00
24	14137	HAND BRAKE CONECTION	6.67
25	14141	DRIVER DESK MOUNTING 1 &2	20.00
26	14142	Welding of super structure	41.67
27	14143	Welding of engine pads	20.00
28	14144	Welding of Radiator pads	13.33
29	14145	Welding of Alternator pads	13.33
30	14146	Welding of chequered plates	80.00
31	14147	Welding of pipes and supports AUB, BUF and Cabin	40.00
32	14148	Welding of Loading pads	13.33
33	14149	Welding of handrails pads	26.67
34	Misc	Rain Test	64
35	Misc	S-Curve Test	16
36	Misc	Long Run	36
37	Misc	Final cover Fixing in all panels and loco	32
38	Misc	Items replacement failed during testing	24
39	Misc	Shunting	60

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40	Misc	Pipe Threading	64
41	Misc	Shed Inspection	64
Total			1050.00

Bogie Assembly Shop

Loco	700 HP TPP DESL Bogie		
Area	Bogie Assy Shop		
SL NO.	MODULE	Activities	Manhrs
1	55025	CROSS TIE&WIRE ROPE MTG B-1	12
2	55026	CROSS TIE&WIRE ROPE MTG B-2	12
3	55031	HANGER BKT SHIFTING & FINAL WELDING B-1	16
4	55032	HANGER BKT SHIFTING & Final welding B-2	16
5	55033	BOGIE FINAL LOWER B-1	12
6	55034	BOGIE FINAL LOWER B-2	12
7	55035	BC REPLACEMENT B-1	8
8	55036	BC REPLACEMENT B-2	8
9	55065	TM WIRE LOCK B-1	2
10	55066	TM WIRE LOCK B-2	2
11	55071	GEAR CASE MTG B-1	12
12	55072	GEAR CASE MTG B-2	12
13	55077	AXLE BOX BIDDING B-1	4
14	55078	AXLE BOX BIDDING B-2	4
15	55083	BEARING STOPPER MTG & WIRE LOCK B-1	4
16	55084	BEARING STOPPER MTG & WIRE LOCK B-2	4
17	55085	PULL ROD PREPARATION B-1	8
18	55086	PULL ROD PREPARATION B-2	8
19	55087	PULL ROD MTG B-1	6
20	55088	PULL ROD MTG B-2	6
21	55091	SANDWITCH MTG B-1	4
22	55092	SANDWITCH MTG B-2	4
23	55095	SHIM MTG AFTER WEIGHMENT B-1	4
24	55096	SHIM MTG AFTER WEIGHMENT B-2	4
25	55097	SAFETY STRAP MTG B-1	6
26	55098	SAFETY STRAP MTG B-2	6
27	55101	PISTON ADJUST	16
28	55102	U/G MECH INT/QC	12
29	55103	PULL ROD SLEEVE SETTING B-1	16
30	55104	PULL ROD SLEEVE SETTING B-2	16
31	55119	HORN STAY SPLIT PIN MTG B-1	5.28
32	55120	HORN STAY SPLIT PIN MTG B-2	5.28
33	55141	BOGIE INTERLOCK AFTER LOWER	8

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34	55142	BRAKE SHOE OVERRIDE/LOCO	16
35	55145	LOCO U/G CLEARANCE	8
36	55121	PEDESTAL LINER T/F WELD B-1	8
37	55122	PEDESTAL LINER T/F WELD B-2	8
38	55123	HORN LINER T/F WELD B-1	6
39	55124	HORN LINER T/F WELD B-2	6
40	55125	SAND BOX T/F WELD B-1	8
41	55126	SAND BOX T/F WELD B-2	8
42	55127	CROSS TIE HOOK WELD B-1	4
43	55128	CROSS TIE HOOK WELD B-2	4
44	55129	AXLE BOX HORN&PEDESTAL LINER T/F WELD B-1	8
45	55130	AXLE BOX HORN&PEDESTAL LINER T/F WELD B-2	8
46	55131	PULL ROD SLEEVE T/F WELD B-1	4
47	55132	PULL ROD SLEEVE T/F WELD B-2	4
48	55133	SAFETY STRAP T/F WELD B-1	4
49	55134	SAFETY STRAP T/F WELD B-2	4
50	55135	TOP SEAT GUIDE BUSH T/F WELD B-1	6
51	55136	TOP SEAT GUIDE BUSH T/F WELD B-2	6
52	55099	SPEED SENSOR BKT T/F welding	1
53	55079	AXLE BOX HORN TO HORN GAP T/F WELDING B-1	4
54	55080	AXLE BOX HORN TO HORN GAP T/F WELDING B-2	4
55	55113	INTERLOCK BKT PREP. &T/F WELDING B-1	4
56	55114	INTERLOCK BKT PREP. & T/F WELDING B-2	4
57	Misc	Preparation work for wheel axle assembly items like Wheel , Gear Wheel , Axle, axle box assembly & Gear Case (Removal of Anti Rust agent, Oil, Grease, Rusting, assistance in pressing operation Etc)	16
58	Misc	Preparation work of bogie frame assembly (deburring, dressing etc.)	8
59	Misc	Grinding & Dressing work of fittment items in bogie frame & CARDIUM & OIL FILLING	24
60	Misc	Unpacking of items, housekeeping of shop, machine cleaning, Chip removal & assitance for crane operationetc.	24
Total			483.56

We hereby accepted above (Signature & seal of bidder)

Seal & Signature OF BHEL contracting authority

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

Loco	700 HP Dual cab DESL Bogie		
Area	Bogie Assy Shop		
SL NO.	MODULE	Activities	Manhrs
1	55025	CROSS TIE&WIRE ROPE MTG B-1	12
2	55026	CROSS TIE&WIRE ROPE MTG B-2	12
3	55031	HANGER BKT SHIFTING & FINAL WELDING B-1	16
4	55032	HANGER BKT SHIFTING & Final welding B-2	16
5	55033	BOGIE FINAL LOWER B-1	12
6	55034	BOGIE FINAL LOWER B-2	12
7	55035	BC REPLACEMENT B-1	8
8	55036	BC REPLACEMENT B-2	8
9	55065	TM WIRE LOCK B-1	2
10	55066	TM WIRE LOCK B-2	2
11	55069	DUST GUARD MTG B-1	4
12	55070	DUST GUARD MTG B-2	4
13	55071	GEAR CASE MTG B-1	12
14	55072	GEAR CASE MTG B-2	12
15	55077	AXLE BOX BIDDING B-1	4
16	55078	AXLE BOX BIDDING B-2	4
17	55083	BEARING STOPPER MTG & WIRE LOCK B-1	4
18	55084	BEARING STOPPER MTG & WIRE LOCK B-2	4
19	55085	PULL ROD PREPARATION B-1	8
20	55086	PULL ROD PREPARATION B-2	8
21	55087	PULL ROD MTG B-1	6
22	55088	PULL ROD MTG B-2	6
23	55091	SANDWITCH MTG B-1	4
24	55092	SANDWITCH MTG B-2	4
25	55095	SHIM MTG AFTER WEIGHMENT B-1	4
26	55096	SHIM MTG AFTER WEIGHMENT B-2	4
27	55097	SAFETY STRAP MTG B-1	6
28	55098	SAFETY STRAP MTG B-2	6
29	55099	SPEED SENSOR BKT PREP.	4
30	55101	PISTON ADJUST	16
31	55102	U/G MECH INT/QC	12
32	55103	PULL ROD SLEEVE SETTING B-1	16
33	55104	PULL ROD SLEEVE SETTING B-2	16
34	55108	INNER HANGER PREPARATION/LOCO	16
35	55117	HORN STAY MTG B-1	6
36	55118	HORN STAY MTG B-2	6
37	55119	HORN STAY SPLIT PIN MTG B-1	5.28
38	55120	HORN STAY SPLIT PIN MTG B-2	5.28
39	55141	BOGIE INTERLOCK AFTER LOWER	8

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BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

40	55142	BRAKE SHOE OVERRIDE/LOCO	16
41	55145	LOCO U/G CLEARANCE	8
42	55121	PEDESTAL LINER T/F WELD B-1	8
43	55122	PEDESTAL LINER T/F WELD B-2	8
44	55123	HORN LINER T/F WELD B-1	6
45	55124	HORN LINER T/F WELD B-2	6
46	55125	SAND BOX T/F WELD B-1	8
47	55126	SAND BOX T/F WELD B-2	8
48	55127	CROSS TIE HOOK WELD B-1	4
49	55128	CROSS TIE HOOK WELD B-2	4
50	55129	AXLE BOX HORN&PEDESTAL LINER T/F WELD B-1	8
51	55130	AXLE BOX HORN&PEDESTAL LINER T/F WELD B-2	8
52	55131	PULL ROD SLEEVE T/F WELD B-1	4
53	55132	PULL ROD SLEEVE T/F WELD B-2	4
54	55133	SAFETY STRAP T/F WELD B-1	4
55	55134	SAFETY STRAP T/F WELD B-2	4
56	55135	TOP SEAT GUIDE BUSH T/F WELD B-1	6
57	55136	TOP SEAT GUIDE BUSH T/F WELD B-2	6
58	55099	SPEED SENSOR BKT T/F welding	1
59	55079	AXLE BOX HORN TO HORN GAP T/F WELDING B-1	4
60	55080	AXLE BOX HORN TO HORN GAP T/F WELDING B-2	4
61	55113	INTERLOCK BKT PREP. &T/F WELDING B-1	4
62	55114	INTERLOCK BKT PREP. & T/F WELDING B-2	4
Total			451.56

Loco	1400 HP DESL Bogie		
Area	Bogie Assy Shop		
SL NO.	MODULE	Activities	Manhrs
1	2023	BRIDGE PAD BUSH MTG B-1	3
2	2024	BRIDGE PAD BUSH MTG B-2	3
3	2031	BC MTG 1ST SETUP B-1	8
4	2032	BC MTG 1ST SETUP B-2	8
5	2049	CROSS TIE PREP&WIRE ROPE MTG B-1	8
6	2050	CROSS TIE PREP&WIRE ROPE MTG B-2	8
7	2073	TM MTG B-1	12
8	2074	TM MTG B-2	12
9	2077	GEAR CASE MTG B-1	18
10	2078	GEAR CASE MTG B-2	18
11	2079	TM WIRE LOCK B-1	6
12	2080	TM WIRE LOCK B-2	6
13	2091	BOGIE TRIAL LOWER B-1	12
14	2092	BOGIE TRIAL LOWER B-2	12
15	2095	HNGR BKT SHIFTING B-1	4

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BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

16	2096	HNGR BKT SHIFTING B-2	4
17	2097	HORN PEDESTAL CLEARANCE MAINT B-1	8
18	2098	HORN PEDESTAL CLEARANCE MAINT B-2	8
19	2099	HANGER SIDE STOPPER GAP MAIN B-1	2.5
20	2100	HANGER SIDE STOPPER GAP MAIN B-2	2.5
21	2101	BOGIE FINAL LOWER B-1	12
22	2102	BOGIE FINAL LOWER B-2	12
23	2105	SANDWITCH MTG B-1	7.5
24	2106	SANDWITCH MTG B-2	7.5
25	2109	VERTICAL DAMPER MTG B-1	8
26	2110	VERTICAL DAMPER MTG B-2	8
27	2111	LATERAL DAMPER MTG B-1	4
28	2112	LATERAL DAMPER MTG B-2	4
29	2113	HORN STAY MTG&LOCK B-1	18
30	2114	HORN STAY MTG&LOCK B-2	18
31	2115	BOTTOM SLACK ADJUSTER MTG B-1	12
32	2116	BOTTOM SLACK ADJUSTER MTG B-2	12
33	2117	SAFETY STRAP GAP MAIN. B-1	16
34	2118	SAFETY STRAP GAP MAIN. B-2	16
35	2119	FRICTION ARM GAP MAIN. B-1	8
36	2120	FRICTION ARM GAP MAIN. B-2	8
37	2121	GEAR CASE WIRE LOCK B-1	6
38	2122	GEAR CASE WIRE LOCK B-2	6
39	2123	TM TORQUE INTERNAL B-1	9
40	2124	TM TORQUE INTERNAL B-2	9
41	2129	SANDWITCH BOLT REMOVE B-1	6
42	2130	SANDWITCH BOLT REMOVE B-2	6
43	2131	AXLE BOX WIRE&PLATE LOCK B-1	6
44	2132	AXLE BOX WIRE&PLATE LOCK B-2	6
45	2135	SAFETY STRAP MTG B-1	12
46	2136	SAFETY STRAP MTG B-2	12
47	2137	CABLE CLEAT PREP.& MTG B-1	4
48	2138	CABLE CLEAT PREP.& MTG B-2	4
49	2140	GREASE NIPPLE MTG IN S TUBE B-1	6
50	2141	GREASE NIPPLE MTG IN S TUBE B-2	6
51	2142	GREASE NIPPLE MTG IN EQ. BEAM B-1	14
52	2143	GREASE NIPPLE MTG IN EQ. BEAM B-2	14
53	2301	CARDIUM COMPOUND HEAT&FILL	12
54	2302	LOCO TRIAL LOWER	4
55	2303	LATERAL DAMPER BKT SHIFT	4
56	2306	LOCO FINAL LOWER	4
57	2307	LATERAL DAMPER MTG	4
58	2308	D'SHACKLE MTG&LOCK	10
59	2309	BOTTOM SLACK ADJUST	8

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BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

60	2310	PISTON ADJUST(INT/QC/SHED)	16
61	2311	U/G CLEARANCE INTERNAL	12
62	2312	U/G CLEARANCE QC	12
63	2314	S' CURVE & MMD QC	16
64	2320	U/G MECHANICAL QC	16
65	2323	LONG RUN SHED	8
66	2324	SHED BOOKING	16
67	2326	BC REPLACEMENT	3
68	2327	ALL BEAM LINK PIN GREASING WITH GUN	4
69	2160	HORN LINER FINAL WELD B-1	8
70	2161	HORN LINER FINAL WELD B-2	8
71	2162	PIVOT SUPPORT RIB T/F WELD B-1	2
72	2163	PIVOT SUPPORT RIB T/F WELD B-2	2
73	2166	PEDESTAL LINER FINAL WELD B-1	12
74	2167	PEDESTAL LINER FINAL WELD B-2	12
75	2168	SAFETY STRAP HEATING B-1	8
76	2169	SAFETY STRAP HEATING B-2	8
77	2170	CLEAT BKT WELD B-1	3
78	2171	CLEAT BKT WELD B-2	3
79	2176	HANGER PIN/LOCKPLATE WELD B-1	8
80	2177	HANGER PIN/LOCKPLATE WELD B-2	8
81	2180	HANGER BKT T/F WELD B-1	12
82	2181	HANGER BKT T/F WELD B-2	12
83	2182	FRICTION ARM HEAT B-1	2.64
84	2183	FRICTION ARM HEAT B-2	2.64
85	2186	LATERAL DAMPER BKT T/F WELD B-1	6
86	2187	LATERAL DAMPER BKT T/F WELD B-2	6
87	2188	HANGER SIDE STOPPER PAD T/F WELD B-1	10
88	2189	HANGER SIDE STOPPER PAD T/F WELD B-2	10
89	2190	PIVOT LINER FINAL WELD B-1	3.5
90	2191	PIVOT LINER FINAL WELD B-2	3.5
91	2192	SAND BOX T/F WELD B-1	12
92	2193	SAND BOX T/F WELD B-2	12
93	2196	SANDWITCH LINER FINAL WELD B-1	4.98
94	2197	SANDWITCH LINER FINAL WELD B-2	4.98
95	2198	WIRE ROPE BKT T/F WELD B-1	4
96	2199	WIRE ROPE BKT T/F WELD B-2	4
97	2200	AXLE BOX STOPPER T/F WELD B-1	6
98	2201	AXLE BOX STOPPER T/F WELD B-2	6
99	2204	PEDESTAL LINER TACK WELD B-1	6
100	2205	PEDESTAL LINER TACK WELD B-2	6
101	2206	HORN LINER TACK WELD B-1	8
102	2207	HORN LINER TACK WELD B-2	8
103	2208	SANDWITCH LINER TOP TACK WELD B-1	1.98

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BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

104	2209	SANDWITCH LINER TOP TACK WELD B-2	1.98
105	2210	SANDWITCH LINER BOTTOM TACK WELD B-1	1.98
106	2211	SANDWITCH LINER BOTTOM TACK WELD B-2	1.98
107	2212	PIVOT LINER TACK WELD B-1	2.5
108	2213	PIVOT LINER TACK WELD B-2	2.5
109	2214	HANGER BKT TACK WELD B-1	8
110	2215	HANGER BKT TACK WELD B-2	8
111	2304	H DAMPER T/F WELD	4
Total			874.16

Loco	GE Bogie		
Area	Bogie Assy Shop		
SL NO.	MODULE	Activities	Manhrs
1	55015	BC MTG B-1	8
2	55016	BC MTG B-2	8
3	55021	OUTER HANGER ASSLY B-1	8
4	55022	OUTER HANGER ASSLY B-2	8
5	55023	INNER HANGER ASSLY B-1	8
6	55024	INNER HANGER ASSLY B-2	8
7	55033	BOGIE SPRING SEAT ,SPRING MOUNTING &FINAL LOWER B-1	12
8	55034	BOGIE SPRING SEAT ,SPRING MOUNTING &FINAL LOWER B-2	12
9	55063	TM MTG B-1	16
10	55064	TM MTG B-2	16
11	55065	TM WIRE LOCK B-1	2
12	55066	TM WIRE LOCK B-2	2
13	55069	DUST GUARD MTG B-1	4
14	55070	DUST GUARD MTG B-2	4
15	55071	GEAR CASE MTG B-1	12
16	55072	GEAR CASE MTG B-2	12
17	55085	PULL ROD PREPARATION B-1	8
18	55086	PULL ROD PREPARATION B-2	8
19	55087	PULL ROD MTG B-1	6
20	55088	PULL ROD MTG B-2	6
21	55089	SANDWITCH PREPARATION B-1	4
22	55090	SANDWITCH PREPARATION B-2	4
23	55091	SANDWITCH MTG B-1	4
24	55092	SANDWITCH MTG B-2	4
25	55093	SANDWITCH BOLT REMOVED B-1	4
26	55094	SANDWITCH BOLT REMOVED B-2	4
27	55107	OUTER HANGER PREPARATION/LOCO	16
28	55108	INNER HANGER PREPARATION/LOCO	16
29	55121	PEDESTAL LINER T/F WELD B-1	8
30	55122	PEDESTAL LINER T/F WELD B-2	8

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BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

31	55123	HORN LINER T/F WELD B-1	6
32	55124	HORN LINER T/F WELD B-2	6
33	55129	AXLE BOX HORN&PEDESTAL LINER T/F WELD B-1	8
34	55130	AXLE BOX HORN&PEDESTAL LINER T/F WELD B-2	8
35	55135	TOP SEAT HANGER GUIDE BKT T/F WELD B-1	6
36	55136	TOP SEAT HANGER GUIDE BKT T/F WELD B-2	6
37	Misc	Preparation work for wheel axle assembly items like Wheel , Gear Wheel , Axle, axle box assembly & Gear Case (Removal of Anti Rust agent, Oil, Grease, Rusting, assistance in pressing operation Etc)	16
38	Misc	Preparation work of bogie frame assembly (deburring, dressing etc.)	8
39	Misc	Grinding & Dressing work of fittment items in bogie frame & CARDIUM & OIL FILLING work	24
40	Misc	Unpacking of items, housekeeping of shop, machine cleaning, Chip removal & assitance for crane operationetc.	24
Total			352

2. LD CLAUSE, MEASUREMENT OF WORK & PAYMENT TERMS:

2.1 Penalty Clause: Any delay in execution as per measurement book attributed to contractor shall attract penalty @0.5% per week for delayed job maximum upto 10% of respective job value.

2.2 Measurement of Work and Payment Terms: Work Shall be measured in terms of Technology Hours given against each activity Module and payment shall be made activity wise based on technology hours of that particular activity. Manufacturing activities of DESLs with Technology Manhours is given in Annexure-B .

2.3 The contractor shall submit his monthly RA (running account) bills with all the details required by BHEL on specified date monthly (by 1st week of the month) covering completion of work in all respects and works completed for the bill period. All the payments will be subject to deduction of tax at source applicable as per law.

3. Estimated Quantum of Works: Manufacturing activities as per technology hours and Miscellaneous works in 3 nos. 700 HP DESL TPP , 2nos. 700 HP Dual Cab DESL, 2nos. 700 HP DESL Dual Cab ,Related Bogie work,GE Bogies ,Wheel and Axle sets at LMM shop,

Note: In case any work against given manhours is done by BHEL personnel due to urgency then contractor has to complete any other module of equivalent manhours in any of the 1400 HP/700 HP Dual cab/700 HP TPP/Bogies at the same manhour rate.

Contractor has to deliver the work allotted to him within 10 days for each locomotive and 8 days for bogie work. However, if any delay occurs on account of BHEL in providing material or other work front, that period shall be added in the delivery period i.e. 10 days /8 days.

4. **LD Clause:** Any delay in execution of work will attract penalty. Contractor has to deploy adequate number of workers to execute the quantum of work. The quantum of work will be monthly production plan which shall be reviewed/monitored on weekly basis. Delay if attributable to firm; penalty shall be imposed @0.5% per week for delayed work (no. of Locomotives) and maximum up to the ceiling of 10 % of the contract value for the delayed work. If any defect is noticed in the work at later stage, the firm shall repair the same, in short time free of cost. Cost of rework / rejection will be recovered from the contractor, if the same is found to be occurred due to negligence/lack of skill of the worker. Executive in charge shall keep proper records for above purpose. The Penalty shall be recovered from the EMD, Security Deposit, Contract amount and running bills etc.
5. All required input materials for assembly will be provided to contractors within 3 working days from the contractor's requisition date.
6. **Drawing and Documents:**
The detailed drawings, specifications available with BHEL engineers will be made available to the contractor during execution of work in shop. The contractor will also ensure availability of all drawings / documents at work place.

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024****Pre-Qualifying Requirement (PQR)****Annexure – 'C'**

S. No	NIT Terms	Activities	
1	Name of Work	Works contract for Manufacturing Activities in following DESLs.3 nos. 700 HP TPP DESL2 nos. 700 HP Dual Cab DESL2 nos. 1400 HP DESL DESL Bogies,GE bogies and Wheel Axle Set at LMM shop, BHEL Jhansi	
2	Annual Turnover		
2a	Average annual financial turnover in the past 3 years, ending 31 st March 2024, should be at least X (Refer 2b for respective column for value of 'X') Contract), wherein the bidder(s) has to attach audited balance sheet and Profit & Loss Account of last three financial years, ending 31st March 2024, or Certificate of CA as proof of financial T/o for respective years.If T/o details of 3 years are not available, then available years T/o shall be evaluated by dividing it by 3.		
2b	Annual Turnover (Refer 2a above) for Non MSME	Rs 3.0 Lakhs	
	Annual Turnover (Refer 2a above) for MSME	Rs. 0.75 Lakhs	
3	Experience of having successfully completed including partial completed similar works* (defined below) in past 7 years, ending last day of the month previous to the one in which tender are invited should be either of the following: <div>For Non MSMEfor MSME</div>		
3a	Three similar completed/partial completed works each costing not less than	Rs 4.0 Lakhs	Rs 1.0 Lakhs
3b	Two similar completed/partial completed works each costing not less than	Rs 4.99 Lakhs	Rs.1.25 Lakhs
3c	One similar completed/partial completed works, each costing not less than	Rs 7.99 Lakhs	Rs.2.0 Lakh
3d	In case of experience in Government Organization/ PSU/ Semi- Government, following documents must be attached: <div>i) Copy of Work order/ Purchase Order.<div>ii) Copy of Work Completion Certificate.<div>iii) TDS Certificate -16 A (For works other than BHEL)</div></div></div> <div>In case of experience in Private Sector, following documents must be attached:</div>		

We hereby accepted above (Signature & seal of bidder)**Seal & Signature OF BHEL contracting authority**

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

	i) Copy of Work order/ Purchase Order. ii) Copy of Work Completion Certificate. iii) TDS Certificate -16A (For works other than BHEL) *Similar Work: Means bidder has experience of any service or works contract involving Fit-up, Welding, Fabrication , Mechanical assembly work in Locomotive or Transformer (in any PSU / CPSU / State govt. / Central Govt./ Private sector).	
4	Earnest Money Deposit (EMD)	Rs 19,976 for Non -MSME Rs. 0 for MSME

5) Other required documents:

- a) Contractor Should have PAN number.
- b) Contractor Should have GST (PAN based)
- c) Self-Declaration undertaking duly signed with stamp of the bidder on letter Pad of contractor to be submitted.
- d) Copy of independent ESI Registration.
- e) Signed copy of Blank Price Bid.
- f) The bidder should submit the required documents for the proof of their firm as legal entity under whose name and style Contractor has participated in the tender as given below:
 - I. Partnership Firm: Partnership Deed registered at the office of Registrar of Firms.
 - II. Company: Certified copy of Memorandum of Association, Article of Association and Incorporation Certificate.
 - III. Society: Registration certificate issued by Registrar of societies.
 - IV. Sole Proprietor-ship Firm: Undertaking on oath (Rs. 100 stamp paper) that Proprietor is solely responsible for all rights and liabilities while working under the name and style of Sole Proprietorship firm namely (_____)
- 6) Benefits under Start Up Scheme: Considering critical quality aspects and technical specification implications for the work, no relaxation shall be given to Start-up bidders on account of turnover criteria & prior experience.
- 7) Bidders are required to submit a self-declaration to avoid cartel formation on their letter head as per the Format enclosed in **Annexure E**.

We hereby accepted above (Signature & seal of bidder)**Seal & Signature OF BHEL contracting authority**

GENERAL TERMS AND CONDITIONS OF ENQUIRY FOR WORKS
CONTRACTS (JHS 2055C R02)

UPLOADED IN SEPERATE FILE - PAGE NO 01 TO 14
(To be signed by contractor and submitted along with bid)

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**Locomotive Manufacturing Deptt.****TENDER DOCUMENT****TENDER ENQUIRY NO. : LMM/TW/24-25/001****DATE:- 20/08/2024**

Blank Price Bid Sheet JS-472						
Tender Enquiry No. LMM/TW/24-25/001		% Allocation (Item-wise)	Unit of Measurement	Quantum of Work	Rate per Manhour (in Rs.)	
Sl. No.	Description of Work					
(A)	(B)	(C)	(D)	(E)	(F)	
1	Manufacturing activities of 700 HP DESL at Loco Assy Shop	19.24	Manhours	2457.86		
2	Manufacturing activities of 700 HP DESL at Bogie Assy Shop	11.43	Manhours	1460.66		
3	Manufacturing activities of 700 HP DESL Dual cab at Loco Assy Shop	24.85	Manhours	3174.40		
4	Manufacturing activities of 700 HP DESL Dual cab at Bogie Assy Shop	7.12	Manhours	909.95		
5	Manufacturing activities of 1400 HP DESL at Loco Assy Shop	16.45	Manhours	2101.42		
6	Manufacturing activities of 1400 HP DESL at Bogie Assy Shop	13.85	Manhours	1768.76		
7	Manufacturing activities of GE Bogie Set at Bogie Assy Shop	5.74	Manhours	733.03		
8	Manufacturing activities of Wheel Axle Set (DESL) at Bogie Assy Shop	1.32	Manhours	168.41		
	GROSS TOTAL	100.00%		12774.50		To be quoted by the bidder
	Gross Total Amount (Rs.)			-		

Note:

1. Bidder has to quote Manhour Rate in above unlocked cell only. Gross Total amount for execution of contract and all other purposes shall be calculated automatically.
2. Quoted Rate should be considered only if quoted in this excel sheet and print out of this should only be considered for evaluation. If Price is quoted in any other format other than the Excel Sheet enclosed to the NIT , the offer of the bidder will be rejected
3. GST @ 18% Shall be extra

(Signature and Seal of the Contractor)**Do not fill rates in this sheets****We hereby accepted above (Signature & seal of bidder)****Seal & Signature OF BHEL contracting authority**

Annexures (I-XII)

Attached below

(To be signed by contractor and submitted along with bid)

ANNEXURE –A

DECLARATION BY BIDDER (on letter pad)

We declare that the following family firms or sister concern affiliates / subsidiary firms are participating in the tender

1.....

2.....

3.....

I..... , hereby declare on behalf of M/s..... and the family firms or sister concern affiliates / subsidiary firms listed above that we are not indulging in cartel formation for tender **No-**

Name & signature of the bidder
(Seal)

**SOP For Implementation of Risk and Cost
(TOTAL 10 PAGES)**

UPLOADED IN SEPARATE FILE

(To be signed by contractor and submitted along with bid)

Format JS 146 - Price Bid Sheet (in a separate envelope)

UPLOADED IN SEPARATE FILE

Regarding conflict of interest of bidders-

*“A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. **The bidder found to have a conflict of interest shall be disqualified.** A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:*

- a) they have controlling partner (s) in common; **or***
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; **or***
- c) they have the same legal representative/agent for purposes of this bid; **or***
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; **or***
- e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; **or***

f) *In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:*

- 1. The principal manufacturer directly or through one Indian agent on his behalf; and*
- 2. Indian/foreign agent on behalf of only one principal;*

or

g) *A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; **or***

h) *In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business."*