कदम कदम मिलाना है ग्राहक सफल बनाना है

ENQUIRY

TWO PART BID

E-TENDER

भारत हैवी इलेक्ट्रिकल्स लिमिटेड, पिपलानी, भोपाल— ४६२०२२ (भारत)

सामग्री प्रबंधन विभाग

BHARAT HEAVY ELECTRICALS LIMITED, PIPLANI, BHOPAL-462022 (INDIA) MATERIALS MANAGEMENT DIVISION

TIN NO- 23573000001 MPCT NO- HEL/05/01/0001/S15/11/79 ECC NO- AAACB4146PXM009 PHONE NO: 91-755-2500100 FAX: 91-755-2500023

www.bhel.com

ENQUIRY NO

ENQUIRY DATE

ENQUIRY DUE DATE

08/04/25

E5153007

18/04/25

SUPP NAME AND ADDRESS	SUPP CODE	REV CD	REV NO	REV DATE	NO OF CATY2	NO OF CATY3	ENQ NO OF ITEMS	INDENT NO
		1	0	NA	1	5	1	120543068
	GUARANTEE CI	ERTIFICATE	Y	SUPPLY CONDIT	ION IDENT	IFICATION MUST		
OFFICE COPY	TEST CERTIFIC	CATE	Y					
	INSTRUCTION I	BOOKLET	N	TECHNICAL CON	NDITION AS PER	R PI		
	SAMPLE		N					
	GATE PASS		Y	INSPECTION CO	NDITION AT BH	EL BHOPAL		

NOTE: QUOTE PRICE BOTH IN FIGURES & WORDS.IN CASE OF MISMATCH PRICE IN WORDS WILL BE VALID, QUOTATIONS NOT BEARING ENQUIRY NO AND DUE DATE LIABLE TO BE REJECTED.

SL	MATERIAL	DESC	UNIT	ITEM	QTY	LOT	LOT	DEST	DELIVERY
NO	CODE			QTY	VR%	NO	QTY		DATE
1	BL9064725764	SILICON IMPREGNATING RESIN SILRES H62C.	KG	21000.000	30	1	4000.000	205	28/05/25
						2	4000.000	205	28/06/25
						3	4000.000	205	28/07/25
						4	4000.000	205	28/08/25
						5	5000.000	205	28/09/25

REMARK REFER NIC E- TENDER PORTAL FOR DETAILS.

DRAWIN	NG	N	PURCH SPEC	Y	CATALO	UGE N		PLAN
SUPP CD.			SUPP NAME		MSME	STATUS.	PMD	Cust Appr

	N	IWOPARI	RID A		
-	S.NO	INDENT NO	ITEM NO	CATEGORY	ENQUIRY QTY.
	1	120543068	1	275000	21000.000

NOTE:BHEL,BHOPAL'S Standard Terms & Conditions BP200102 (Latest Revision) form a part of this Enquiry. Bidders may obtain from us copies of these terms and conditions if not already available.

SPECIAL REMARKS: Bid to be submitted through e-procurement. Refer eproc link on BHEL Bhopal B2B site. NAME: SHRI MANOJ KUMAR DUBEY

DESG: ENGINEER

0755-2502379

manojdubey@bhel.in

SIGN & SEAL



HEAVY ELECTRICAL PLANT, BHOPAL

BHARAT HEAVY ELECTRICALS LIMITED

BHEL ENQUIRY NO. E5153007
DUE ON 18-04-2025

NIT TERMS & CONDITIONS:

SL. NO.	DESCRIPTION	DETAILS
1.	RATE CONTRACT TERMS	We intend to enter into a Rate Contract (RC) for ordering up to 12 months from RC freeze date, i.e. RC is to be kept valid for ordering up to 12 months from RC freeze date. Ordering shall be done against firm requirement as & when needed by BHEL. BHEL reserves the right to cancel/ short close the RC at any point of time even before the expiry of RC validity without assigning any reason whatsoever it may be.
2.	ITEM DESCRIPTION	SILICON IMPREGNATING RESIN SILRES H62C
3.	QUANTITY	21000 Kgs
4.	QUANTITY VARIATION	± 30%
5.	DELIVERY SCHEDULE REQUIREMENT	For the first lot of 4000 Kg. scheduled delivery date shall be within 60 days from the PO date & thereafter for each subsequent lot of 4000 Kg. scheduled delivery date shall be within 30 days from the scheduled delivery date of the previous lot. Early delivery is acceptable.
6.	DELIVERY TERMS	FOR Destination. Delivery destination shall be BHEL Bhopal
7.	DELIVERY INSTRUCTION	All dispatched documents and cases containing these items shall indicate the description and quantity of stores, name & address of consignee, gross weight of package, name of contractor along with BHEL name and distinct marking.
8.	PAYMENT TERMS	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 16) i.e. 100% payment in 90 days of receipt (45 days for Micro & Small and 60 days for Medium enterprises as registered in Udyam Certificate as per relevant MSME act in force) and subject to acceptance of material and relevant documents at BHEL. Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded @ SBI base rate + 6% for the purpose of bid evaluation.
9.	SPLITTING OF ORDER	Yes, on 2 (two) eligible sources with quantity distribution ratio of 65% & 35% to L-1 and the other bidder accepting L-1 rates in sequence, subject to minimum 3 qualified bidders. For ascertaining bidder for 35% quantity, HESG equivalent rate of L-1 bidder shall be counter-offered to L-2, L-3 and so on sequentially until any bidder accepts the same. In case of only 2 qualified bidders, BHEL reserves the right for distribution/non-distribution among 2 bidders. In case of only one qualified bidder or in case no bidder agrees to accept the counter-offered HESG equivalent rate of L-1, BHEL may decide to award entire 100% quantity to L-1 bidder. Distribution in compliance with latest guidelines for MII and MSE shall also be followed.
10.	TECHNICAL PQR (T-PQR)	Technical Pre-Qualification Requirements (T-PQR) for procurement of the items is attached with the NIT. Compliance of all the points in T-PQR is mandatory. In absence of compliance of above and non-submission of documents required against the T-PQR, the Vendor's offer is liable to be rejected. Duly filled T-PQR with desired documents shall be submitted by the Vendor along with the offer.



22.

23.

24.

25.

26.

CERTIFICATE

GUARANTEE /

WARRANTY

GUARANTEE

CERTIFICATE

EVALUATION

Earnest Money Deposit (EMD)

CRITERIA
BID SECURITY/

Yes

overall L1 basis

Not Applicable

MATERIAL MANAGEMENT - TRACTION MACHINES

HEAVY ELECTRICAL PLANT, BHOPAL BHARAT HEAVY ELECTRICALS LIMITED

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		Information/ compliance/ documents submitted by vendor shall be authentic in all aspects In case any deviation/ false information/ forged documents are observed / revealed late.
		on, BHEL is free to initiate appropriate punitive proceeding against the Vendor as per Prevalent Processes and Guidelines of Company.
11.	FINANCIAL PQR (F-PQR)	Applicable. Average Turnover of last three years should be at least Rs 300 Lacs. Documents to b submitted by the vendor: Audited Statement of P & L accounts or CA certificate of Turnove for FY 2021-22, 2022-23 and 2023-24".
12.	QAP	Not applicable
13.	BID PARTS	Offer shall be submitted by the bidders in Two Parts, i.e. Part-I Technical cum Commercial bid & Part-II Price bid.
14.	PENALTY / LD	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 9) i.e. 0.5% of the undelivered portion per week of delay or part thereof, subject to maximum of 10% of the undelivered order value owing to delayed delivery.
15.	PRICE BASIS	Firm Price basis
16.	PRICING TERMS	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 12)
17.	PRICE VALIDITY	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 13) i.e. Offer shall be valid for a period of 90 days from the date of Techno- commercial (Part) bid opening date.
18.	TAXES & DUTIES	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 14)
19.	TECHNICAL CONDITION	AS PER PQR, SPECIFICATION, ETC ATTACHED
20.	SAMPLE	First lot shall be approved by BHEL before start of bulk/regular supply in case of Popular placement.
21.	INSPECTION CONDITION	AT BHEL BHOPAL
22.	TEST	All Material TC to be supplied along with material as per Spec. and TC should incorporat

GC to be supplied along with the material and GC should incorporate Drg. /Spec. as

Spec. as mentioned in item description.

mentioned in item description.



HEAVY ELECTRICAL PLANT, BHOPAL

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27.	PERFORMANCE SECURITY (PBG)	 A. Performance Bank Guarantee (PBG), hereafter referred as performance security is mandatory for the successful bidder awarded the contract. B. The total amount of Performance Security is 5% of the contract value. C. Performance Security is to be furnished by 14 (fourteen) days after notification of the award) and it should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations. D. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered from the bills along with due interest. E. Modes of deposit: a) Performance security may be furnished in the following forms: (i) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL. (ii) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL. (iii) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL). (iv) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL). (v) Insurance Surety Bond. (Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith) b) In case of GTE tenders, the performance security should be in the same cur
	REVERSE	obligations including the warranty under the contract. H. The Performance Security shall not carry any interest.
28.	AUCTION	Not Applicable
29.	MSE PREFERENCE	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 29)
30.	PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA)	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 33) For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non-local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT



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BHEL ENQUIRY NO. E5153007 **DUE ON 18-04-2025**

The local content to categorize a supplier as a Class-I local supplier / Class-II local supplier / Non-Local supplier and purchase preference to Class-I local supplier, is as defined in above circular issued by DPIIT/ Nodal Ministry.

Bidders to also inform the Actual Percentage of the Local Content and the Complete Address of the Location of Local Value Addition as per the attached MII format, failing which no purchase preference shall be granted.

In case the bid value is more than Rs. 10 Crore, the declaration relating to the Actual Percentage of the Local Content and the Complete Address of the Location of Local Value Addition shall be Certified by the Statutory Auditor or Cost Auditor, if the OEM is a Company and by a Practicing Cost Accountant or a Chartered Accountant for OEM other than Companies as per the above circular.

For contracts valuing more than Rs 10 Crores, local content (in cases of self-certification submitted by bidders at the time of tendering) will be re-verified during execution of contract by Cost/ Chartered Accountant/ Statutory Auditor/Cost Auditor (as applicable) and in case of defaults, penalty upto 10% of the contract value shall be imposed. However, contract once awarded shall not be terminated on this account.

Bidders or successors can be debarred for false declarations for up to 2 years. Debarred suppliers not eligible for preference in any other procuring entity.

As per attached BHEL GTC of ENQUIRY (BP200102A, Cl. No. 30 & 32). Integrity Pact to be sealed & signed along with a witness and submitted along with the offer.

(A) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMS) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL. https://www.bhel.com/iems-under-integrity-pact-1

- 1. Shri Bishwamitra Pandey, IRAS (Retd.) iem1@bhel.in
- 2. Shri Otem Dai, IAS (Retd.) iem2@bhel.in
- 3. Shri Mukesh Mittal, IRS (Retd.) iem3@bhel.in

(B) The IP as enclosed with the tender is to be submitted (duly signed & sealed by authorized signatory) along with Techno-Commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the **bidding.** In other words, entering into this pact would be a preliminary qualification.

(C) Please refer Section-8 of IP for Role and Responsibilities of IEMS. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMS shall be done through email only.

NOTE:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:

Details of contact person(s):

(1) Name: Manendra Singh (Dy. Manager)

Deptt: MNX

Address: Block-9/Annexe/EW/GF, BHEL, Piplani, Bhopal - 462022

Phone: <u>0755-250-5880</u> Email: manendra1@bhel.in

PREVENTION 31. **POLICY &**

INTEGRITY

PACT (IP),

INTEGRITY

COMMITMENT

FRAUD



HEAVY ELECTRICAL PLANT, BHOPAL

BHARAT HEAVY ELECTRICALS LIMITED

BHEL ENQUIRY NO. E5153007
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(2) Name: <u>Gaurav Kumar Katiyar (Sr.</u>	Manager)
Deptt: <u>MNX</u> Address: <u>Block-9/Annexe/EW/GF</u>	BHEL Pinlani Rhonal - 462022
Phone: 0755-250-5766	BITEL, FIDIAIII, BIIODAI - 402022
Email: gauravkatiyar@bhel.in	
RESTRICTION	
32. UNDER RULE As per attached BHEL GTC of ENQUIRY	(BP200102B, Cl. No. 34)
144 (xi) GFR	
The Bidder/Supplier/Contractor will,	when presenting his bid, declare whether other
Family Firms or Sister Concern Affilia	tes/Subsidiary firms are participating in the same
33. ANNEXURE-IX tender, so as to eliminate the possib	ility of cartel formation. Format for declaration is
available in the NIT documents for th	is enquiry (Annexure-IX). Same is to be submitted
with the offer.	
The bidder declares that they will not	enter into any Illegal or Undisclosed Agreement or
	ormal with other bidder(s). This applies in particular
to prices specifications certifications	subsidiary contracts, submission or non-submission
of hids or any other actions to restrict	competitiveness or to introduce cartelization in the
DECLARATION bidding process.	
	dulged in above activities, suitable action shall be
taken by BHEL as per extant Policies/ 0	-
	rest with other bidders. Such conflict of interest can
	the detriment of Procuring Entity's interests. The
	interest shall be disqualified. A bidder may be
	-
	st with one or more parties in this bidding process,
if:	
a) they have controlling partner (s) in o	
	rect or indirect subsidy/ financial stake from any of
them; or	
c) they have the same legal representa	- , ,
	her, directly or through common third parties, that
	ss to information about or influence on the bid of
CONFLICT OF another Bidder; or	
	bid in this bidding process. Participation by a Bidder
	disqualification of all bids in which the parties are
	t the inclusion of the components/ sub-assembly/
AGENTS Assemblies from. one bidding manufacture of the second of the sec	turer in more than one bid; or
f) In cases of agents quoting in offs	shore procurements, on behalf of their principal
manufacturers, one agent cannot rep	esent two manufacturers or quote on their behalf
in a particular tender enquiry. One mar	ufacturer can also authorise only one agent/dealer.
There can be only one bid from the fol	lowing:
1. The principal manufacturer directly	or through one Indian agent on his behalf; and
2. Indian/foreign agent on behalf of or	
	or
g) A Bidder or any of its affiliates par	ticipated as a consultant in the preparation of the
	e contract that is the subject of the Bid; or
	more than one independently manufacturing units,
	more than one macpenachtry manufacturing units,
To more than one unit having confine	n business ownership/management, only one unit



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	<u> </u>	
		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. "
36.	EVALUATION IN CASE OF MORE THAN ONE L-1 BIDDER	In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders. In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s). Ranking will be done accordingly. Decision of BHEL in such situations shall be final and binding.
37.	SPECIAL CONDITIONS	Bidders who fall under MSE (Micro & Small Enterprises only) and fail to upload 'UDYAM Registration Certificate (URC)' shall automatically be considered as Non-MSE supplier for this tender. Further, it is to be noted that MSE benefits are not being extended to Agent/ Dealer/ Trader/ Distributor (i.e. Other than manufacturer). Supplier has to also provide supporting document(s) such as Agreement Between OEM & Bidder(s) etc. Identification must. Soon after rejection of material, it is to be ensured by supplier that material should be taken back maximum within two weeks after communication for rectification/ replacement & supply back the rectified/ fresh material to BHEL Bhopal within 30 days from rejection. In the event of non-lifting of rejected material by supplier, BHEL will not be responsible for loss of such items to the supplier in any case. Offers of suppliers who are in 'HOLD/BANNED' status in BHEL Bhopal PMD shall not be considered. Unregistered vendors to submit documents required for registration to BHEL Portal Online (https://bhel.com/supplier-registration).
38.	OTHER TERMS & CONDITIONS	Other Terms & Conditions as per attached BHEL GTC of ENQUIRY (BP200102B) Any deviation of NIT, BHEL GTC of ENQUIRY (BP200102B) and BHEL PO Terms, where vendor response is not affirmative to be clearly indicated, else BHEL will consider that all above Terms & Conditions are acceptable to vendors.
39.	GEM REGISTRATION	As you are kindly aware that Government e-Marketplace (GeM) is a one stop portal to facilitate Online Procurement of Goods & Services required by various Government Departments/ Organizations/ PSUs. GeM aims to enhance transparency, efficiency and speed in public procurement. Detailed instructions/ guides/ videos/ FAQs for registration and processes are available on the portal (https://gem.gov.in). BHEL being a PSU, would like that its suppliers/ contractors also have visibility on this portal so that GeM can be used for procurement by BHEL. Hence, you are requested to get yourselves registered on GeM.
40.	TENDER FEE	Not applicable
41.	BID SUBMISSION WITHIN DUE DATE & TIME	No request for extension of tender due date will be entertained at the time of tender opening and after due date under any circumstances. Hence, all bidders are requested to submit their bid well within due date and time only.



HEAVY ELECTRICAL PLANT, BHOPAL

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		BHEL reserves the right for extension of tender based on the situation without assigning any reason whatsoever it may be.
		Signed and Sealed copy of:
		- NIT
		- BHEL GTC of ENQUIRY (BP200102B)
	DOCUMENTS	- BHEL PO Terms
	TO BE	Duly Filled, Signed and Sealed copy of:
42.	FURNISHED	- T-PQR along with all supporting documents
42.	ALONG WITH	- Annexure-IX in Company Letterhead
	YOUR	- PPP-MII Certificate for local content
	QUOTATION	- Integrity pact
		- Techno-Commercial Annexure
		Others:
		- UDYAM Registration Certificate (as applicable for MSME bidders only)

IT IS HEREBY MENTIONED THAT THIS IS E-TENDER SO OFFER SUBMITTED THROUGH E-PROCUREMENT PORTAL (www.eprocurebhel.co.in) SHALL ONLY BE CONSIDERED.

<u>Techno-Commercial Annexure</u> (To be filled by supplier and submit with offer)

Tende	er No.	E5153007		
		RATE CONTRACT FOR SILICON IMPREC	GNATING RESIN SILRES H62C.	
Descri	iption :	TENDER QTY.: 21,000 Kgs, +/- 30%		
		Delivery required as per NIT.		
Sr. No.	ELEMENTS	Standards	To be offered/confirmed by supplier	Remarks, if any
1	Quotation reference no. & date	As per supplier		
2	HSN / SAC code	As per supplier		
3	Quotation currency	In INR		
4	Contact person	As per supplier		
5	Phone / Mobile	As per supplier		
6	E-Mail	As per supplier		
7	Order to be placed on (Also provide supplier code at BHEL Bhopal, If registered)	As per supplier		
8	Address	As per supplier		
9	Please specify delivery in weeks/ days (Specify item wise, lot wise as per RFQ)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
10	Rate quoted on "Firm" price basis	Yes		
11	Quoted for all the items and full quantity of tender enquiry	Yes / No. (If "No" please mention item number of regreted items)		
12	Technical specifications	Accepted as per NIT / Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
13	Inspection	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
14	Test certificate & Gurantee certificate as per NIT, Drawings and specification will be submitted along with each consignment	Yes (In case of "No" your offer may be rejected).		
15	Brand name, if any.	As per supplier		
16		As per supplier		
17	Terms of delivery ("FOR DESTINATION" means freight & insurance upto destination in supplier's scope (Destination: CRX Divn, BHEL Bhopal)	Accepted/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
18	Transit insurance (In supplier's scope)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
19	CGST RATE (IN %)	As per supplier		
	SGST RATE (IN %)	As per supplier		
21	IGST RATE (IN %)	As per supplier		
22	UGST RATE (IN %)	As per supplier		
23	Are you manufacturer of quoted item (s).	Yes / No		
24	Are you registered under MSMED ACT 2006 as small or micro. NOTE: - Firms registered under medium scale shall not be considered eligible for MSE benefits.	Yes / No (If select Yes, please enclosed valid UDYAM certificate)		

<u>Techno-Commercial Annexure</u> (To be filled by supplier and submit with offer)

Tende	er No.	E5153007					
		RATE CONTRACT FOR SILICON IMPRE	GNATING RESIN SILRES H62C.				
Descr	iption :	TENDER QTY.: 21,000 Kgs, +/- 30% Delivery required as per NIT.					
Sr. No.	ELEMENTS	Standards	To be offered/confirmed by supplier	Remarks, if any			
25	Terms of Payment (100% payment in 90 days of receipt (45 days for Micro & Small and 60 days for Medium enterprises as registered in Udyam certificate as per relevant MSME act in force) and subject to acceptance of material and relevant documents at BHEL. Pl refer GTC BP200102B)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)					
26	CERTIFICATION OF MINIMUM LOCAL CONTENT, IF MORE THAN 50% VALUE ADDITION IS IN INDIA. (Note- In case of tenders worth more than Rs. 10 crores, Suppliers shall necessarily submit certificate from statutory auditor or cost auditor or cost accountant or CA) Please also specify the amount of local content in India. EXAMPLE :if 100% INDIGENOUS (MADE IN INDIA) MARK "Y"/100%	As per supplier					
27	Details of location of value addition / manufacturing	As per supplier					
28	Other Charges (If any)	Applicable / Not Applicable. (If applicable please mention percentage (%) / Value (along with type of charges).					
29	Penalty for delayed performance as per BP200102B & NIT	Yes / No (In case of "No", your offer will be loaded suitably)					
30	Confirmation that documents pertaining to technical PQR & Financial PQR has been submitted	Yes / No					
31	Acceptance to "REVERSE AUCTION" if conducted (As per BHEL's RA policy)	Yes / No					
32	Submission of Declaration format with duly sealed & signed (Annexure IX, refer attached) regarding whether other family firms or sister concern affiliates / subsidiary firms are participating in the same tender.	(Yes / No) If No please specify the reason.					
33	General terms and conditions of enquiry (Form No. BP-200102B) and BHEL PO Terms & Conditions is Acceptable.	Yes (In case of "No" your offer may be rejected).					
34	Quotation Validity will be 90 days from the date of techno-commercial bid opening.	Yes					
35	Tender fees submitted	Yes / Not Applicable	Not Applicable				

BHEL-IP

Annexure-1

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

______, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for <u>SILICON</u>

IMPREGNATING RESID SILRES HE2C, Enquiry No. E5153007

(hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
- 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- 1.1.3 The Principal will exclude from the process all known prejudiced persons.
 - 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.

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BHEL-IP

- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
 - 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
 - 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above , the Bidder(s)/ Cotractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee , whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

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Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors / Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.



- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

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Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

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मनोज कुमार दुवे/Manoj Kumar Dubey For & On behalf of the Principal अभियंता / Enginee		For & On	behalf of	the Bidder/	Contractor
AILA - SUMITEMENT SIMM-TLAIN			(Office	e Seal)	
बी.एच.ई.एल.,भोपाल/B.H.E.L.,BHOPAL					
Place Bhopol					
Date 08/04/2025					
	1 2	W 90			
Witness: (12)					
Witness:		Witness:_			
(Name & Address) Gayray Kymor Kodiyar		(Name &	Address)		<u> </u>
(Name & Address) Gayray Knimer Kodigar MNX BHEL Bhopod					

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Reference No. - TME/PQR/332

Technical Pre-Qualification Requirement (PQR) for procurement of Silicon Impregnating Resin from "local suppliers".

S.	Description	"Local supplier" to comment			
No.		Complied / Not complied	Relevant supporting document to be submitted		
1	Resin should be Class 200 or above, solvent less, low volatility, liquid silicon impregnating resin as per specification TM20597 (copy enclosed).	Yes/No	 Clause by clause compliance of specification. Technical data sheet & Material Safety Data Sheet (MSDS) of offered material. Storage & handling instructions. 		
2	Material identification through Infra Red spectrograph as per specification requirement.	Yes/No	IR Spectrograph of resin		
3	Manufacturing and supply experience in preceding 5 years of same/similar* item to electrical machine manufacturer.	Yes/No	 Detail of Plant & Machinery. Un-price PO copies & corresponding proof of supply (Delivery Challan/invoice etc.) of same/similar item in preceding 5 years from original tender due date. Reference of customer to whom resin has been supplied and its performance report. 		
4	Availability of Testing facilities required to conduct resin property test as per specification mentioned above. List of outsourced testing facility (if used) to be submitted. Testing lab/ firms should necessarily be accredited by NABL or equivalent international agency.	Yes/No	 List of in-house testing facilities to be submitted. Outsourced facility used (if any) to be submitted. 		
5	Details of raw material source used to manufacture above resin to be submitted.	Yes/No	Name of raw material source.		
6	"Local supplier" to confirm that offered resin is compatible with silicon bonded glass mica tape as per specification TM97239 (copy enclosed).	Yes/No	-		
7	"Local supplier" to furnish annual/monthly manufacturing/supply capacity of the above resin.	Yes/No	-		
8	Based on information furnished by "local supplier", prior approval from customer (Indian Railways) shall be taken before placement of order by BHEL. "Local supplier" to agree for the same.	Yes/No	-		
9	First lot shall be approved by BHEL before start of bulk/regular supply in case of PO placement.	Yes/No	-		

Notes:

- "Local supplier" is defined in BHEL tender enquiry.
- In absence of compliance above PQR, supplier offer is liable to be rejected.
- Class 200 or above Silicon Impregnating Resin is considered as same/ similar item.
- Information submitted by "local supplier" shall be correct in all respect. In case any deviation/false information is
 revealed later on, BHEL is free to initiate appropriate punitive proceeding as per prevalent processes and guidelines
 of company.

Prepared By	Checked By	Approved By
Proof 23/0 A/2022	23/W W	23/04/22
Prasad Telang	Shishupal	Vikas Rawtiya
Dy. Manager/ TME	Manager/ TM6	DGM/ TME



PRODUCT STANDARD TME DIVISION, BHOPAL

TM 20597 **REV 01**

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SOLVLENT LESS SILICONE IMPREGNATING RESIN & ITS FILLER/ AUXILIARY MATERIAL

1.0 **General**

This specification governs technical requirements of liquid, solvent less, Silicone Impregnating Resin and its filler/ Auxiliary material of Class-200 and above. The material shall comply with specification instructions regarding chemical composition, mechanical properties and all other listed requirements in this specification.

1.1

Silicon Impregnating Resin used for Vacuum Pressure Impregnation or equivalent to SILRES H62C for is methylphenylvinylhydrogenpolysiloxane not modified with organic components, very low volatility (suitable for Vacuum Pressure Impregnation). It contains no decomposable and physiologically problematic components.

1.2 Filler/Auxiliary material

Filler/ Auxiliary material (if required) is a liquid component of Silicone Impregnating Resin for VPI or equivalent, when cured by heat through catalyzed addition cross linking without the formation of cleavage products. It also cures in thick layers, even contact with air, tack free and without formation of bubbles.

Mixture contains no decomposable and physiologically problematic components.

2.0 Application

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Used for vacuum pressure impregnation of traction machines winding.

Typical ratio for use is as follows

- Silicon Impregnating Resin or equivalent 110 parts by weight
- Filler/ Auxiliary material (if any) 02 parts by weight

Any other ratio as recommended by supplier/ OEM, suitable for corresponding grades can be used.

3.0 Compliance with national standard

There is no Indian standard covering this type of material. This is based on BHEL experience. Reference has been drawn from CLW specification no. 4TMS.096.093, Alt 00.

4.0 **Technical Requirements**

4.1 Special Features

- Resin should be Silicone Based preferably transparent yellow in color.
- Resin should be very low volatility (suitable for Vacuum Pressure Impregnation).
- Resin should be curable by heat without any formation of cleavage products; resin should also cure in thick layers even in contact with air, tack-free and without formation of bubbles.
- The resin should be remarkably insensitive during curing to the influence of various kinds of insulating materials.
- The resin can be processed at temperatures up to a maximum of 80°C to reduce viscosity.
- The resin should confirm to fire safety requirements defined in UL 94 VO.
- Resin should be compatible with silicon bonded glass mica tape, as per BHEL specification TM97239.

Revision: 01	Distribution	Qty	Approved:	(2/04/24
				(Vikas	Rawtiya)
Dt:	TME	1	Prepared:	Checked:	Date:
23/04/2022	CIM	1		/10	
	QCI	1	Dood . az	Chr 33/84/22	1
	MDX	1	Paga 04/2022	230	
	TXM	1		(Shishupal)	23/04/2022



PRODUCT STANDARD TME DIVISION, BHOPAL

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4.2 Processing

The resin should be capable for following VPI process

- The electrical component to be impregnated is dried at elevated temperature under vacuum (0.5-5 mbar) in the impregnating vessel.
- To accelerate impregnation pressure (2-5 bar) is applied until impregnation is completed.
- The electrical part is lifted from the impregnation vessel and excessive resin drips off. Thickness of the surface coating should be < 50 micro m to exclude cracks due to differing thermal expansion of materials.
- Curing is done at 200°C, 12 hours or else recommended by manufacturer.

4.3 Gel Time of Resin

Temperature	Gelling Time	
140°C	300 minutes	
160 °C	100 minutes	
180 °C	45 minutes	
200 °C	26 minutes	
220 °C	15 minutes	

4.4 Resin/Filler/Auxiliary material Properties

Uncured	resin properties	All reference the control of	
S. No.	Characteristics	Typical Requirement	Test Method
1	Color	Yellow	-
2	Viscosity, dynamic at 25 ℃	1000 mPa.s	DIN 51562
3	Viscosity, dynamic at 80 °C	95 mPa s	DIN 51562
4	Density at 25 °C	1.12 g/cm3	DIN 51575
5	Refractive index at 25 °C	1.50	-
6	Shelf life at room temperature	More than 9 months	-
7	Gel Time	As per serial no. 4.3 above, or as recommended by OEM	-

S. No.	Characteristics	Typical Requirement	Test Method
1	Color	Transparent	-
2	Refractive index at 20 °C	1.467 ± 0.003	DIN 53491
3	Shelf life at room temperature (≤ 25 deg C) in original airtight container	More than 12 months	IEC 60455-2 Section 14

S. No.	Characteristics	Typical Requirement	Test Method
1	Appearance	clear, transparent	Visual
2	Density at 25℃	1.16 g/cm ³	- "
3	Hardness Shore	60-80	DIN 53505
4	Flexural strength at 25 °C	24-40 N/mm ²	DIN EN ISO 178
5	Thermal conductivity at 50 ℃	0.2 W/Km	DIN 52612
6	Specific heat at 0 - 100 °C	1.45 J/(g.K)	
7	Volume resistivity p, at 23 °C	1.8 x 10 ¹⁷ ohm cm	IEC 60093 (DIN 53842)
8	Dielectric strength (50 Hz) at 23 °C Surrounding medium: electrical insulating mineral oil	27 kV/mm	IEC 60243-1
9	Dielectric strength (50 Hz) at 23 °C Surrounding medium: silicone rubber (SIR)	82 kV/mm	IEC 60243-1

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PRODUCT STANDARD TME DIVISION, BHOPAL

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5.0 Special Test

Sealed Tube Test set up (for testing reactions with other insulating items)	IEC 60038-18-22
VPI of test sample with Vacuum and Temp Control	For BDV after VPI

All testes specified in the specification shall be carried out preferably at manufacturers work. The manufacturer shall all necessary machines, apparatus, labour and assistance required for conducting tests without extra cost. If any testing facility is not available at firm's premise the test is to be done from any Government approved NABL lab at firm's own cost.

6.0 Storage & Shelf Life

The shelf life of resin in original sealed drum should be more than 9 months or above when stored at room temperature (25° C). The shelf life of Filler/ Auxiliary material (if any) should be more than 12 months or above when stored at room temperature ($<25^{\circ}$ C). The 'Best use before end' date should be mentioned on each drum/ container.

6.0 Test Certificate

Three copies of test certificates shall be supplied for each lot, unless otherwise specified on order. In addition, the supplier shall ensure to enclose one copy of the test certificate along with their dispatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information: TM20597, BHEL purchase Order No., Supplier's Name/Grade/Identification No., Weight, and Packet/Container/Drum No., Properties of test as per this standard.

7.0 Approved Grades

The material shall be ordered on BHEL approved grade only. At present following grade is approved by BHEL:

Silicon Impregnating Resin	SILRES H62C of M/s Wacker Chemie AG		
Filler/ Auxiliary material	Auxiliary Material 38 (HILFSSTOFF 38) as per ABB identification no. HZN451560, specification HZLK 605002		

Notes:

- Any other grade can be offered against this specification, subject to meeting material properties as per this specification and prior approval of BHEL.
- For any other grades supplier to submit Technical data sheet, MSDS, test certificate as per this specification from NABL/ any internationally accredited lab.
- If any deviation in product data, firm may seek approval of same submitting detail justification regarding gelling time, viscosity, color, ratio etc. Firm should VPI procedure of their product along with their offer. Firm should submit compatibility test report of their product vs Existing Silicone based resin combination for Vacuum Pressure Impregnation (VPI) before prototype inspection indicating that there will be no adverse effect on existing insulation scheme.

8.0 Revision History

S. No.	Revision No.	Date	Description
1	00	19/12/2020	Original issued
2	01	23/04/2022	Specification updated in line with CLW specification no. 4TMS.096.093, Alt 00

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