

RIGID STEEL CONDUITS

GeM Tender Enquiry for RIGID STEEL CONDUITS For 4 x 270 MW BHADADRI TPS

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Project: - 4X270 MW BHADRADRI TPP
Package: - RIGID STEEL CONDUIT
GeM BID NO: Dtd. 10.10.2022
ANNEXURE -I

Additional clauses of NIT

1. Dispatch Markings: -

Each box shall be marked with Capital Letters in “Red” indicating the PEM supply (Main Supply OR Commissioning spare) for **4X270 MW BHADRADRI TPP**. Each package delivered under the Contract shall be marked by Supplier and such marking must be distinct and in English Language (all previous irrelevant markings being carefully obliterated). Such marking shall show the description and quantity of contents, the name and address of consignee, the Gross weight and Net weight of the package, the name of the Supplier, PEM P.O. reference number, with a distinctive number of mark sufficient for purposes of identification. Besides above necessary, packing shall bear a special marking ‘TOP’, ‘BOTTOM’, ‘DO NOT TURN OVER’, ‘KEEP DRY’, ‘HANDLE WITH CARE’, etc.

IMPORTANT

- Two copies of respective standard manufacturer’s erection instruction/operation instruction manual shall be kept in each package / container for immediate reference by BHEL site and same shall be reflected in packing slip also
- The Packing list details for the consignment must be put inside the Box/Boxes.

2. Liquidated Damages: -

a) **Main Supply:-** Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages and not by way of penalty, a sum equivalent to half (½) percent and applicable GST thereon, of the total main supply & commissioning spares contract price excluding GST per week or part thereof, subject to a maximum of ten(10) percent of the total main supply & commissioning Spares contract price excluding GST, if the Seller/ Contractor fails to deliver any part of the ordered goods/stores within the period stipulated in the Order/ Contract.

NOTE:

- i. LR/RR date for indigenous supplies (Bill of Lading/AWB for Foreign supplies) shall be treated as the date of dispatch for levying LD. However, if receipted LR date for indigenous supply is beyond 30 days for FTL/ 45 days for PTL from the date of LR (PTL to be clearly mentioned in LR), such excess period shall be considered for LD purpose irrespective of dispatch date. Import General Manifest (IGM)/Bill of entry date (whichever is earlier), for foreign supplies, is beyond 90 days from the date of Bill of Lading/AWB, such excess period shall be considered for LD purpose irrespective of dispatch date.
- ii. In case of any amendment/ revision, LD shall be linked to the amended/ revised contract value and delivery date(s).
- iii. If Order/ Contract involves two or more Units/ Sets/ Lots/ Stages, then Liquidated Damages shall be levied on order/ contract value excluding GST of the delayed Unit/ Set/ Lot/ Stage, provided delivery stipulated in the Order/ Contract is Unit/ Set/ Lot/Stage wise, however total LD amount shall be limited to 10% of total order/ amended

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order value excluding GST of delayed Unit/ Set/ Lot/Stage. Any subsequent lot released (not envisaged in original contract) due to increase in quantity within permissible quantity variation shall be treated as separate lot for the purpose of LD.

iv. The sum specified above is not a penalty but a genuine pre-estimate of the loss/ damage which will be suffered by purchaser on account of delay on the part of the Contractor/Seller and the said amount will be deductible without proof of actual loss or damage caused by such delay.

3. Risk & Cost Purchase

BHEL reserves the right to terminate the contract or withdraw portion of work and get it done through other agency, at the risk and cost of the contractor after due notice of a period of 14 days, by BHEL in any of the following cases:

i) If the Seller/Contractor fails to deliver the goods or materials or any instalment thereof within the period(s) fixed for such delivery or the Seller's poor progress of the supply/ services vis-à-vis delivery/execution timeline as stipulated in the Contract, backlog attributable to seller including unexecuted portion of supply does not appear to be executable within balance available period;

ii) Delivers goods or materials not of the contracted quality and failing to adhere to the contract specifications;

iii) Withdrawal from or repudiation/ abandonment of the supply/ services by Seller before completion as per contract or if the Seller refuses or is unable to supply goods or materials covered by the Order/Contract either in whole or in part or otherwise fails to perform the Order/Contract;

iv) Non-supply by the Seller within scheduled completion/delivery period as per Contract or as extended from time to time, for the reasons attributable to the Seller;

v) Termination of Contract on account of any other reason (s) attributable to Seller.

vi) Assignment, transfer, subletting of Contract without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.

vii) If the Seller be an individual or a sole proprietorship Firm, in the event of the death or insanity of the Seller;

viii) If the Seller/Contractor being an individual or if a firm on a partnership thereof, shall at any time, be adjudged insolvent or shall have a receiving order for administration of his estate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any assignment of the Order/Contract or enter into any arrangement or composition with his creditors or suspend payment or if the firm dissolved under the Partnership Act;

ix) If the Seller/Contractor being a company is wound up voluntarily or by order of a Court or a Receiver, Liquidator or Manager on behalf of the debenture holders and creditors is appointed or circumstances shall have arisen which entitles the Court of debenture holder and creditors to appoint a receiver, liquidator or manager;

x) Non-compliance to any contractual condition or any other default attributable to Seller.

Such defaulting vendor/Seller shall not be eligible to participate in re-tendering conducted on account of risk purchase made due to fault of such vendor/Seller.

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3.1 Risk & Cost Amount against Balance Work:

Risk & Cost amount against balance work shall be calculated as follows:

$$\text{Risk \& Cost Amount} = [(A-B) + (A \times H/100)]$$

Where,

A= Value of Balance scope of Work (*) as per rates of new contract

B= Value of Balance scope of Work (*) as per rates of old contract being paid to the contractor at the time of termination of contract i.e. inclusive of PVC & ORC, if any.

H = Overhead Factor to be taken as 5

In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).

3.2 Balance scope of work (in case of termination of contract):

Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Work for calculating risk & cost amount.

Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities.

Items for which total quantities to be executed have exceeded the Contract Quantities based on drawings issued to contractor from time to time till issue of Termination letter, then for these items total Quantities as per issued drawings would be deemed to be contract quantities.

Substitute/ extra items whose rates have already been approved would form part of contract quantities for this purpose.

Substitute/ extra items which have been executed but rates have not been approved, would also form part of contract quantities for this purpose and rates of such items shall be determined in line with contractual provisions.

However, increase in quantities on account of additional scope in new tender shall not be considered for this purpose.

NOTE: In case portion of work is being withdrawn at risk & cost of contractor instead of termination of contract, contract

quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work' for calculating Risk & Cost amount.

3.3 LD against delay in executed work in case of Termination of Contract:

LD against delay in executed work shall be calculated in line with above LD clause, for the delay attributable to contractor. For limiting the maximum value of LD, contract value shall be taken as Executed Value of work till termination of contract.

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Method for calculation of LD against delay in executed work in case of termination of contract” is given below.

- i. Let the time period from scheduled date of start of work till termination of contract excluding the period of Hold (if any) not attributable to contractor = T1
- ii. Let the value of executed work till the time of termination of contract = X
- iii. Let the Total Executable Value of work for which inputs/fronts were made available to contractor and were planned for execution till termination of contract = Y
- iv. Delay in executed work attributable to contractor i.e. $T2 = [1 - (X/Y)] \times T1$
- v. LD shall be calculated in line with LD clause (clause 16) of the Contract for the delay attributable to contractor taking “X” as Contract Value and “T2” as period of delay attributable to contractor.

3.4 Recoveries arising out of Risk & Cost and LD or any other recoveries due from Contractor

Without prejudice to the other means of recovery of such dues from the Seller recoveries from the Seller on whom risk & cost has been invoked shall be made from the following:

- a) Dues available in the form of Bills payable to seller, SD, BGs against the same contract.
- b) Dues payable to seller against other contracts in the same Region/Unit/ Division of BHEL.
- c) Dues payable to seller against other contracts in the different Region/Unit/ division of BHEL.

In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against contractor.

4. For recognition of dispatch, vendor to submit following documents to BHEL by e-mail/ fax immediately on dispatch: - GST compliant invoice, LR for Indian Vendors (indicating Invoice No., no. of boxes, PTL (if applicable) etc.) / Bill of Lading or AWB for foreign vendor, Packing List (Must be indicating No. of boxes, Packing size, Gross weight and net weight of each package, Contents of the package with cross reference to BoM item code no. or item serial no. and Quantity of each item separately), Insurance Intimation to underwriter through email/fax, Dispatch Clearance.

B. Following ATC available in GEM shall also be part of NIT: -

- i. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
- ii. Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

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iii. Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

iv. The bidder is required to upload, along with the bid, all relevant certificates such as BIS license, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.

v. While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

VI. OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

VII. Nominated Inspection Agency: On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance:

Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC): BHEL TPIA

Post Receipt Inspection at consignee site before acceptance of stores: NA

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Additional Terms and Conditions for subject Tender Enquiry to be complied by Bidders for Consideration in this tender:

- A.** Bidders to ensure that Third party/Customer issued certificates being submitted as proof of PQR qualification should have verifiable details of document/certificate issuing authority such as name & designation of Issuing Authority and its organization contact number and E-mail Id. In case the same is found not available, BHEL has the right to reject such document from evaluation.
- B.** "This item /package/system falls under the list of items defined in para 3 of ministry of finance guideline date 20.09.16 (procurement of items related to public safety, health, critical security operations and Equipment's etc.) & hence criteria of prior experience /turnover shall be same for all bidders including start up /MSME".
- C.** **Guarantee & Warrantee** shall be as per Cl. No. 10 of GTC on GeM for the bid. However, Guarantee & Warrantee time period shall be 18 months from the date of last supply in the contract for Main Supply.
- D.** Evaluation shall be on the basis of total all inclusive, landed price at consignee destination (Refer cl. No. 6 of GTC on GEM).
- E.** **Terms of Delivery:** - Terms of delivery shall be F.O.R. dispatch station. All dispatches shall be through Road Carriers on Freight Pre-Paid basis. Road Permit/E-way Bill if required will be arranged by Supplier. However, loading & Transit insurance shall be in the scope of Seller and unloading of items at delivery point shall be in the scope of BHEL. Bidder to quote prices accordingly.
- F.** Further, w.r.t. Transit Insurance supplier has to inform the details of dispatches (such as Policy No., Consignee Name, Consignment Packing details, Project Name, Purchase Order No., LR No. & date, Invoice No. & date, Dispatch Origin & destination details etc.) to policy underwriter.
- G.** Bidder has to provide the details as per TECHNICAL PQR (attached with Specifications of product catalogue) in its offer and has to note that bids of only those bidders shall be evaluated who meet the Technical Pre-Qualifying requirements'. The terms of technical PQR shall prevail in conflict (if any).
- H.** PQR criteria uploaded with Buyer uploaded Bid Specific document shall prevail Value of Experience criteria and Past performance parameter mentioned in GeM bid.
- I.** "Due to COVID-19 pandemic condition prevailing in the country BHEL/PEM may go for Remote Inspection of Offered items if required. Vendors are requested to be equipped with the facilities/gadgets as indicated in the guidelines available at : <https://pem.bhel.com/Documents/VendorSection/Vendor/Guidelines.pdf> to take up the inspection remotely.
- J.** **Inspection call to be raised by bidder on BHEL CQIR portal** (details shall be shared at the of execution of order) and Inspection agency shall attend at the inspection within seven (07) days of the date on which the material is notified as being ready. In case of delay in witnessing of inspection beyond stipulated time (i.e. 7 days from the date on which the material is notified as being ready), by BHEL arising due to reasons not attributable to vendor, BHEL will extend the delivery period for such delay in carrying out inspection. If BHEL is not able to witness inspection up to 15 days then in addition to delay beyond stipulated period, extension in delivery time of 07 days for arranging fresh inspection will be given.

When the tests have been satisfactorily completed at Seller/ Contractor's works, the Inspection Agency shall issue an inspection report that effect within seven (07) days after completion of the tests, but if the tests were not witnessed by the Inspection Agency or his representative, the material acceptance report would be issued within seven (07) days after receipt of the test certificates by the Purchaser.

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Purchaser will issue MDCC to the Seller/ Contractor within 7 days based on inspection report/ test certificates/Certificate of Conformance as applicable. In case of delay in issuance of MDCC beyond 7 days stipulated time (i.e. from the date of successful inspection report), by BHEL arising due to reasons not attributable to vendor, BHEL will extend the delivery period for such delay in issuing MDCC. If BHEL is not able to issue MDCC up to 15 days then in addition to delay beyond stipulated period, 7 days' additional time shall be given to vendor to facilitate the vendor for arranging logistics arrangements.

- K.** All Bidders shall be required to submit applicable Freight % & GST % included in their prices during clarification stage of Tender.
- L.** Performance Bank Guarantee: shall be as per Cl. No. 7 of GTC of GeM. Performance Security amount shall be @5% of the value of contract value.
- M. Payment Terms:** For Supply Portion: - As per clause no. 12 (i) of GTC on GeM. Supplier has to provide original+1 copy of Tax invoice, Packing List, LR/RR or AWB, CRAC, Insurance intimation, Guarantee Certificate, E-way bill (as applicable) for payment.
Offline payment mode shall be selected. Payment will be released within 90 days for Non MSME after submission of complete documents (45 days for Micro & Small Enterprises (MSEs), 60 days for Medium Enterprises).
- N. Bid reserved for Make in India products:** - Procurement under this bid is reserved for purchase from Class 1 local suppliers as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a class 1 local supplier is denoted in the bid document **as 60%**. All bidders must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which the bid is liable to be rejected. Regarding verification of local content, the local supplier at the time of tender, bidding or solicitation shall be required to provide certification (as per enclosed annexure-IV) as per para 9 of PP-MII order revision dated 16.09.2020.
- O. This is conditional tender enquiry. Financial bid opening (Part-II) of a bidder shall be subjected to following: -**
- (i) Techno-Commercial evaluation/recommendation by BHEL.
 - (ii) Qualification of Technical PQR
 - (iii) Offered item should mandatorily conform to PP-MII order provisions.
 - (iv) Bidder (must be BIS licensee with valid CML number) has to provide the details as per TECHNICAL PQR (part of GeM bid documents for this tender) in its offer and has to note that bids of only those bidders shall be evaluated who meet the Technical Pre-Qualifying requirements. Above terms for PQR shall prevail in conflict (if any).
- P. Consignee Details** (for PRC - Provisional Receipt Certificate & CRAC - Consignee's Receipt cum Acceptance Certificate, as applicable) shall be as per Project Site official details.
- Q.** The Bidder has to declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). 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. In case, the bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/guidelines.
- R. Bidders to ensure the following: -**
- Ensure compliance to Ministry of Power (MoP) Order No. 11/05/2018□Coord. dt. 28/07/2020, if applicable.

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• Ensure compliance of Ministry of Finance (MoF) Order (Public Procurement No. 1 & 2) F. No. 6/18/2019/PPD dt. 23/07/2020.

• to submit “Model Certificate for Tenders” as per Annexure-III of Ministry of Finance (MoF) Order (Public Procurement No. 1 & 2) F. No. 6/18/2019/PPD dt. 23/07/2020. Bidder to submit the following undertaking on their letter head duly signed from the highest competent authority at your end (i.e Owner, partner, CMD, Director etc.)

“I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I hereby certify that this bidder is not from such a country and is eligible to be considered”

Note: - This bidder is to be replaced with bidders’ organizational name.

- S. Delivery Period:** Delivery Days (365 days from the date of PO) mentioned in GeM bid is to be treated as currency of the contract period. However, vendor to consider Delivery period as given in Annexure-II (attached with ATC document) i.e. " Within Four (04) months from date of CAT-1 approval of Primary drawing/ documents, subjected to drawing/ document submission/re-submission schedule as stipulated, in case of any delay in submission/re-submission of Primary drawing/ documents, then same shall be reduced from the given delivery period". other terms of delivery mentioned in Annexure - II.
- T.** For registration in BHEL PEM- Online registration portal is operational, Non-registered Vendors who wish to apply for registration in BHEL-PEM can apply through Online Registration Portal available at www.pem.bhel.com - vendor section - Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration can be uploaded on the website and submit the application for registration. However, registration of suppliers is not mandatory in case of open tender
- U.** Instructions to Packing List (annexure –III) and Certification reg. Local content (annexure –IV) to be complied by bidders.
- V. Quantity Variation:** - Maximum Qty Variation shall be quantity variations as +25%, bidder to quote accordingly.
- W.** (a) PVC is applicable for this package.
(b) PVC ceiling limit shall be positive (+ve) 20% and negative (-ve) unlimited
(c) PVC formula shall be as per Annexure-A
- X.** All the Buyer Added Bid Specific Additional Terms and Conditions shall supersede relevant terms & conditions of GeM GTC and shall prevail in case of conflict with any other terms & conditions of tender (if any).
- Y.** All other terms & conditions shall be as per selected Additional Terms & Conditions for subject bid from GeM library and GTC version 4.0 (Version 1.4) available on GeM Portal on enquiry floating date shall be applicable.

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An undertaking regarding Model Clauses (To be provided alongwith bid)

Refer,

PROJECT	:- 4X270 MW BHADRADRI TPP
PACKAGE	:- RIGID STEEL CONDUIT
Primary product category on GeM	:-.....
BID No. (Through GeM)	:- BID NO:, Dtd. 10.10.2022

M/s

Reference:

TO WHOM SO IT MAY CONCERN

This is with reference to Ministry of Finance circular dated 23.07.20 reg. restriction under rule 144 (xi) of GFR.

“I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that M/s is not from such a country and is eligible to be considered against GeM enquiry no: **BID NO:, Dtd.10.10.2022.**

Sign & Signature

Date:

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ANNEXURE -III TO INSTRUCTIONS TO PACKING LIST

For faster verification of bills, successful bidder to submit detailed Bill of Material (BOM) at the time of drawings/ documents submission after placement of PO. Each item of the BOM to be uniquely identified with item code no. or item Sl. No. Supplier to ensure that all items which will find separate mention in the packing list are covered in this detailed BOM.

Supplier to also give the following undertaking in the BOM:

“The BOM provided herewith completes the scope (in content and intent) of material supply under PO No. Dated Any additional material which may become necessary for the intended application of the supplied items/package will be supplied free of cost in most reasonable time.

Packing List must indicate:

- a) Packing size
- b) Gross weight and net weight of each package
- c) Contents of the package with cross reference to BOM item code no. / Sl. No.
- d) Quantity of each items separately.

The packing list must cover all the BOM items.

Supplier to give following undertaking in the packing list:

The Packing list provided herewith is as per BOM approved under PO No. ----

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ANNEXURE IV

Letter head of Company

Ref.....

Date.....

To,
Bharat Heavy Electricals Limited
PEM, PPEI Building, Plot No 25,
Sector 16A, Noida (U.P.) 201301

Subject: Certification regarding local content

Reference: Tender Enquiry No. BID NO:, Dtd. 10.10.2022.

Name of Package: **RIGID STEEL CONDUIT**

Dear Sir,

We hereby certify that items offered by us of **RIGID STEEL CONDUIT** for **4 X 270 MW BHADRADRI TPP**, M/s meets the requirement of minimum local content as a class – I local supplier in line with clause of NIT (GeM NIT) and the Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018 & 29.05.2019, 04.06.20 & 16.09.20

We further confirm that details of location at which the local value addition is made will be our registered works at

.....
...(address of the works)

Yours very truly

..... (authorized signatory of company)

..... (firm name)

authorized signatory
of company

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Project:-4X270 MW BHADRADRI TPP
Pacakge:- RIGID STEEL CONDUITS
Annexure II to NIT- Delivery Schedule

Sl. No.	Package Code	BHEL Drawing No	Drawing Title	Primary/ Secondary	Drg Sch for Vendors	Standard Delivery Terms for Supply Portion
1	558-15000-A	PE-V0-XXX-558-E701	DATA SHEET OF RIGID STEEL CONDUIT	Primary	R-0 within 14 days from PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	Within Four (04) months from date of CAT 1 approval of Primary drawing/ documents, subjected to drawing/ document submission/re-submission schedule as stipulated, in case of any delay in submission/re-submission of Primary drawing/ documents, then same shall be reduced from the given delivery period.
		PE-V0-XXX-558-E906	QUALITY PLAN OF RIGID STEEL CONDUIT	Primary		
Notes:-						
(i) The end period specified is for completion of the deliveries. Deliveries to start progressively so as to meet the completion schedule.						
(ii) The delivery conditions specified are for contractual LD purposes, however BHEL may ask for early deliveries without any compensation thereof.						
(iii) Non-applicable drawings shall be decided during bid evaluation.						
(iv) Wherever schedule of drawings/documents submission / re-submission is stipulated in the Technical Specifications, same shall be superseded by delivery specified in NIT.						

**Project:-4X270 MW BHADRADRI TPP
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Annexure II to NIT- Delivery Schedule**


Sl. No.	Package Code	BHEL Drawing No	Drawing Title	Primary/ Secondary	Drg Sch for Vendors	Standard Delivery Terms for Supply Portion
1	558-15000-A	PE-V0-XXX-558-E701	DATA SHEET OF RIGID STEEL CONDUIT	Primary	R-0 within 14 days from PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	Within Four (04) months from date of CAT-1 approval of Primary drawing/ documents, subjected to drawing/ document submission/re-submission schedule as stipulated, in case of any delay in submission/re-submission of Primary drawing/ documents, then same shall be reduced from the given delivery period.
		PE-V0-XXX-558-E906	QUALITY PLAN OF RIGID STEEL CONDUIT	Primary		

Notes:-

- (i) The end period specified is for completion of the deliveries. Deliveries to start progressively so as to meet the completion schedule.
- (ii) The delivery conditions specified are for contractual LD purposes, however BHEL may ask for early deliveries without any compensation thereof.
- (iii) Non-applicable drawings shall be decided during bid evaluation.
- (iv) Wherever schedule of drawings/documents submission / re-submission is stipulated in the Technical Specifications, same shall be superseded by delivery specified in NIT.

4X270MW BHADRADRI TPP
BOQ CUM UNPRICED PRICE SCHEDULE FOR
RIGID STEEL CONDUITS

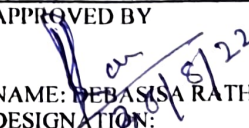
S. No.	ITEM CODE	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (Ex works)	TOTAL PRICE (Exworks)
1	558-15001-A	GI CONDUITS 1.6MM THK EPOXY 20MM DIA	MTR	400		
2	558-15002-A	GI CONDUITS,1.6MM THICK, 20MM DIA	MTR	20,000		
3	558-15004-A	GI CONDUITS,2.0MM THICK, 40MM DIA	MTR	10,000		

	PRE-QUALIFICATION REQUIRMENTS OF RIGID STEEL CONDUITS FOR 4X270MW BHADRADRI TPS	PE-PQ-411-558-E003
		REVISION NO. 0 DATE 01/08/2022
		SHEET NO. 1 OF 1

ITEMS : RIGID STEEL CONDUITS	
SCOPE : Supply : YES; Erection & Commissioning : NO;	
1.0	<p>Vendor should be a BIS approved manufacturer of rigid steel conduits as per IS-9537 Part II.</p> <p style="text-align: center;">or</p> <p>In case, the vendor is not a BIS approved manufacturer, then vendor can offer rigid steel conduits of any BIS approved make subject to submission of following documents:</p> <p>a) Undertaking from BIS approved manufacturer of offered make (along with valid BIS certificate) to get the inspection & testing of aforesaid conduits carried out at manufacturer's works.</p> <p>b) Credentials of the manufacturer of offered make to meet the PQR requirements of S no 2.0 to 4.0 above.</p> <p>c) Vendor's Credentials to meet S no 5.0.</p>
2.0	Availability of test reports of rigid steel conduits to establish in- house capability at manufacturer's works to carry out all routine, type & acceptance tests as per relevant IS.
3.0	Capacity of manufacturing 10 MT of rigid steel conduits per month.
4.0	Manufactured and supplied at least 30 km of rigid steel conduits in one or more orders.
5.0	Minimum two (2) nos. purchase orders for rigid steel conduits shall be submitted which should not be more than five (5) years old from the date of technocommercial bid opening for establishing continuity in business.

NOTES:

- Bidder to submit all supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted.
- Notwithstanding anything stated above, BHEL reserves the light to assess the capabilities and capacity of the bidder/collaborators to perform the contract, should the circumstances warrant such assessment in the overall interest of BHEL.
- After satisfactory fulfillment of all the above criteria requirement, offer shall be considered for further evaluation as per NIT and all the other terms of the tender.

PREPARED BY Manmohan Mahapatra <small>Digitally signed by Manmohan Mahapatra DN: cn=Manmohan Mahapatra, o=BHEL, ou=PSM, email=manmohanmahapatra@bhel.com Date: 2022.08.12 14:19:40+05'30'</small> NAME:MANMOHAN MAHAPATRA DESIGNATION: MANAGER	CHECKED BY HEMA KUSHWAHA <small>Digitally signed by HEMA KUSHWAHA DN: cn=HEMA KUSHWAHA, o=BHEL, ou=PSM, email=HEMA.KUSHWAHA@bhel.com Date: 2022.08.12 14:19:40+05'30'</small> NAME:HEMA KUSHWAHA DESIGNATION: SR. MANAGER	REVIEWED BY PRAVEEN DUTTA <small>Digitally signed by PRAVEEN DUTTA DN: cn=PRAVEEN DUTTA, o=BHEL, ou=PSM, email=PRAVEEN.DUTTA@bhel.com Date: 2022.08.12 14:19:40+05'30'</small> NAME: PRAVEEN DUTTA DESIGNATION: AGM	APPROVED BY  NAME: DEBASISA RATH DESIGNATION: DH-ELECT(AGM)
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VOLUME-II

**TELANGANA STATE POWER GEN CO. LTD.
4X270MW BHADRADRI TPP**

TECHNICAL SPECIFICATION

FOR

RIGID STEEL CONDUITS

SPECIFICATION NO: *PE-RC-411-558-E003*

REVISION: 00



**BHARAT HEAVY ELECTRICALS LIMITED
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA, UP (INDIA) – 201301**

1023717/2022/PS-PEM-EL



TECHNICAL SPECIFICATION
FOR
RIGID STEEL CONDUITS

SPECIFICATION NO. PE-411-558-E003

VOLUME II

SECTION

REVISION 00

DATE: 11.08.22

SHEET 1 OF 1

CONTENTS

SI. No.	DESCRIPTION	NO. OF SHEETS
1.0	SECTION- I	
	COMPLIANCE CERTIFICATE	01
	SPECIFIC TECHNICAL REQUIREMENTS	01
	DATA SHEET – A	01
2.0	SECTION- II	
	STANDARD TECHNICAL REQUIREMENTS	02
	STANDARD QUALITY PLAN	03

Total nos. of sheets including cover & separator sheets = 12 sheets



**TECHNICAL SPECIFICATION
FOR
RIGID STEEL CONDUITS**

SPECIFICATION NO. PE-TS-411-558-E003

VOLUME II

SECTION I

REVISION 00

DATE: 11.08.22

SHEET 1 of 1

COMPLIANCE CERTIFICATE

The bidder shall confirm compliance to the following by signing/ stamping this compliance certificate and furnishing same with the offer.

1. The scope of supply, technical details, construction features, design parameters etc. shall be as per technical specification & there are no exclusion/ deviation with regard to same
2. There are no deviation with respect to specification other than those furnished in the 'schedule of deviations'
3. Only those technical submittals which are specifically asked for in NIT to be submitted at tender stage shall be considered as part of offer. Any other submission, even if made, shall not be considered as part of offer.
4. Any comments/ clarifications on technical/ inspection requirements furnished as part of bidder's covering letter shall not be considered by BHEL, and bidder's offer shall be construed to be in conformance with the specification.
5. Any changes made by the bidder in the price schedule with respect to the description/ quantities from those given in BOQ-Cum-Price schedule of the specification shall not be considered (i.e., technical description & quantities as per specification shall prevail).

BIDDER'S STAMP & SIGNATURE

1023717/2022/PS-PEM-EL



TECHNICAL SPECIFICATION
FOR
RIGID STEEL CONDUITS

SPECIFICATION NO. PE-TS-411-558-E003

VOLUME II

SECTION I

REVISION 00

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SECTION - I



**TECHNICAL SPECIFICATION
FOR
RIGID STEEL CONDUITS**

SPECIFICATION NO. PE-TS-411-558-E003

VOLUME II

SECTION I

REVISION 00

DATE: 11.08.22

SHEET 1 OF 1

1.0 SCOPE

- 1.1 Manufacture, Inspection and Testing at Manufacturer's works, proper packing and delivery to site of rigid steel conduits conforming to this specification.
- 1.2 Technical requirements of rigid steel conduits are indicated in Data Sheet-A & Section-II.
- 1.3 The stipulation of Data Sheet-A shall prevail in case of any conflict between the stipulations of Data Sheet-A & Section-II.

2.0 BILL OF QUANTITIES

The bidder to quote for items as per price schedule attached with NIT.

3.0 DRAWINGS & DOCUMENTS TO BE SUBMITTED

- 3.1 Documents shall be submitted after placement of order for BHEL & customer's approval as specified in NIT.
- 3.2 Documents shall be furnished through BHEL's document management system (wrench) portal.

Notes:

1. Vendor shall submit the drawing/document submission/resubmission schedule after approval of documents.
2. In BOM each of the item to be uniquely identified with item code no. or item Sl. No. Supplier to ensure that all the items which will find separate mention in the packing list are covered in detailed BOM.



**TECHNICAL SPECIFICATION
FOR
RIGID STEEL CONDUITS**

SPECIFICATION NO. PE-TS-411-558-E003

VOLUME II

SECTION I

REVISION 00

DATE: 11.08.22

SHEET 1 OF 1

DATA SHEET-A

1.0 APPLICABLE STANDARDS & CODES

- a) IS:9537 (Part I & II) Conduits for electrical installation.
- b) IS:2629 Recommended practice for hot dip galvanizing on iron and steel.
- c) IS:4759 Specification for hot dip zinc coatings on structural steel and allied products
- d) IS:6745 Methods for determination of mass of zinc coating on zinc coated iron and steel articles.
- e) IS:513 Cold reduced low carbon steel sheet and strip
- f) IS: 10748 Hot rolled Steel strip for welded tubes and pipes
- g) IS: 2633 Method for testing uniformity of coating on zinc coated articles
- h) IS:6005 Code of practice for phosphating iron & steel

2.0 RIGID STEEL CONDUITS

S.No.	Description	Unit	Parameters value/ type
a	Make	-	<input checked="" type="checkbox"/> BIS approved <input type="checkbox"/> As per enclosed sub-vendor list
b	Material	-	Hot or Cold rolled mild steel
c	Sizes	-	As per BOQ cum price schedule
d	Standard length	meter	3 – 5
e	Classification as per mechanical properties		Heavy
f	Conduit thickness (minimum)	mm	1.6 upto 32 mm dia, 2.0 above 32 mm & upto 50 mm dia
g	Surface treatment	-	Hot dip galvanizing on inside & outside surface
h	Epoxy thickness	micron	50 (applicable for epoxy coated conduits only)

3.0 SURFACE TREATMENT

a	Pre-treatment	-	As per IS 6005 prior to galvanising
b	Type	-	Hot dip galvanizing as per IS 2629
c	Min. Thickness of zinc coating	microns	48 (upto 32 mm dia), 65 (above 32 mm & upto 50 mm dia)
d	Min. Weight of zinc coating	(gm/m ²)	340 (upto 32 mm dia) 460 (above 32 mm & upto 50 mm dia)
e	Tests for galvanizing		a) Weight of zinc coating as per IS : 6745 b) Thickness of zinc coating as per IS : 4759 c) Uniformity of zinc coating as per IS : 2633 d) Adhesion as per IS: 2629

1023717/2022/PS-PEM-EL



TECHNICAL SPECIFICATION
FOR
RIGID STEEL CONDUITS

SPECIFICATION NO. PE-TS-411-558-E003

VOLUME II

SECTION II

REVISION 00

DATE: 11.08.22

SECTION-II



**TECHNICAL SPECIFICATION
FOR
RIGID STEEL CONDUITS**

SPECIFICATION NO. PE-RC-999-558-E002

VOLUME II

SECTION II

REVISION 00

DATE: 11.08.2022

Sheet 1 of 2

1.0 INTENT OF SPECIFICATION

The intent of specification is not to specify all details of design & construction of material. The material shall, however, conform in all aspects to high standard of design, engineering and workmanship and be capable of performing in continuous operation up to & after bidder's guarantee period in manner acceptable to purchaser who will interpret the drawings & specification and shall have power to reject any work or material which in his judgement is not in full accordance with this specification.

2.0 CODES AND STANDARDS

- 2.1 The material shall comply with all currently applicable safety codes and statutory regulations of India as well as of the locality where the material is to be installed.
- 2.2 The material, construction, manufacture, inspection and testing of Rigid steel conduits shall conform to the latest revision of relevant standards as per Data Sheet-A.
- 2.3 In case of conflict between the applicable reference standard and this specification, the stringent requirement of the two shall govern.

3.0 TECHNICAL REQUIREMENTS

- 3.1 Rigid conduits shall generally conform to the requirements of IS: 9537 (part I & II).
- 3.2 The diameter of conduits shall be uniform throughout the length. Each end of conduit length shall be threaded. The ends of conduits shall be sealed with protective caps to prevent damage to threaded portions and entrance of moisture and foreign material.
- 3.3 The inside surface of all conduits shall be smooth and suitable for pulling insulated cables and wires without damage.
- 3.4 Technical particulars of rigid conduits are specified in Data Sheet – A.

4.0 QUALITY ASSURANCE, TESTING & INSPECTION

- 4.1 Bidder shall confirm compliance with the BHEL's Standard Quality Plan (PE-QP-999-558-E002) as attached with the specification without any deviations. At contract stage, the successful bidder shall submit the Quality Plan for BHEL/ ultimate customer's approval. In case bidder has reference Quality Plan agreed with ultimate customer, same can be submitted for specific project after award of contract for BHEL/ ultimate customer's approval. There shall be no commercial implication to BHEL on account of Quality plan approval.
- 4.2 All materials shall be procured, manufactured, inspected and tested by vendor/ sub-vendor as per approved quality plan.
- 4.3 The supplier shall perform all tests necessary to ensure that the material and workmanship conform to the relevant standards and comply with the requirements of the specification. Charges for all these tests for all the equipments & components shall be deemed to be included in the bid price.



**TECHNICAL SPECIFICATION
FOR
RIGID STEEL CONDUITS**

SPECIFICATION NO. PE-RC-999-558-E002	
VOLUME II	
SECTION II	
REVISION 00	DATE: 11.08.2022
Sheet 2 of 2	

- 4.4 In case ordered quantities are manufactured and offered for inspection in more than one lot, BHEL reserves the right to witness testing on all lots without any commercial implication to BHEL.

5.0 PACKING


- 5.1 The material shall be packed to ensure protection against damage during transit, storage for prolonged periods and handling.
- 5.2 The ends of conduits shall be sealed with protective caps.
- 5.3 Each conduit shall be wrapped in plastic to prevent dust deposition.
- 5.4 The conduits should be aligned and stacked in bundles (a maximum of 25 pieces per bundle).
- 5.5 Each bundle shall be covered with jute fibre or thick plastic wrap for protection against extreme weather. Then, the bundle shall be tied with twin-strand mild steel wire, strong rope or steel strip.

6.0 MARKING

- 6.1 Rigid conduits shall be marked at least once on each manufacturing length, preferably 50 mm from one end, with the following:
- a) Manufacturer's name or trade mark, if any;
 - b) Country of manufacture; and
 - c) Nominal size of the conduits.
 - d) ISI Certification Mark.


Marking may be applied by moulding, stamping, printing, adhesive label or water slide transfers.

- 6.2 Marking shall be durable and legible.
- 6.3 Marking shall be checked by inspection and by rubbing lightly the marking by hand for 15 seconds with a piece of cloth soaked with water and again for 15 seconds with a piece of cloth soaked with petroleum spirit.

MANUFACTURER/ SUPPLIER NAME & ADDRESS		STANDARD QUALITY PLAN				SPEC. NO :		DATE:			
		CUSTOMER: TSGENCO		QP NO.: PE-QP-999-558-E001, R04		DATE: 23.07.2020					
		PROJECT: 4X270MW BHADRADRI TPS		PO NO.:		DATE:					
		ITEM: RIGID STEEL CONDUITS		SYSTEM: STATION LIGHTING SYSTEM		SECTION: II		SHEET 1 OF 3			
SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS	
1	2	3	4	5	6	7	8	9	**		
					M	C/ N		*	M C N		
1.0 RAW MATERIAL/BOUGHT OUT ITEMS											
1.1		HOT ROLLED STEEL STRIP	MA	VISUAL, MECH. & CHEMICAL	MFR. STD.	IS10748	IS10748	TEST CERT.	✓	P V -	AS APPLICABLE
1.2		COLD ROLLED STEEL SHEET	MA	VISUAL, MECH. & CHEMICAL	MFR. STD.	IS513	IS513	TEST CERT.	✓	P V -	AS APPLICABLE
2.0 ACCEPTANCE TESTS											
2.1		DIMENSIONS	MA	MEASUREMENT	IS 9537-II	IS 9537-II	IS:9537/ APPROVED DATA SHEET	APPROVED DATA SHEET	✓	P W -	
2.2		MECH. PROPERTIES									
2.2A	RIGID STEEL CONDUITS	BENDING TEST	CR	TEST	IS 9537-II	IS 9537-II	IS 9537-II	INSP. REPORT	✓	P W -	
2.2B		COMPRESSION TEST	CR	TEST	IS 9537-II	IS 9537-II	IS 9537-II	INSP. REPORT	✓	P W -	
2.3		GALVANISATION TEST									
2.3A		UNIFORMITY OF ZINC COATING	CR	TEST	IS 9537-II	IS 9537-II	IS-2633/ APPD DS	INSP. REPORT	✓	P W -	

BHEL				BIDDER/SUPPLIER				FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING		QUALITY		BIDDER/SUPPLIER		FOR CUSTOMER REVIEW & APPROVAL		BIDDER/SUPPLIER		FOR CUSTOMER REVIEW & APPROVAL	
Sign & Date	Name	Sign & Date	Name	Sign & Date	Name	Sign & Date	Name	Doc No:	Sign & Date	Name	Seal
Prepared by: MEET SAGAR SINGH RAJPAL MAUDIT CHOPRA	MEET SAGAR SINGH RAJPAL/ SINGH RAJPAL/ MAUDIT CHOPRA	Checked by: PRAVEEN DUTTA	KUNAL GANDHI	Seal		Reviewed by: PRAVEEN DUTTA		Reviewed by:			
Reviewed by: PRAVEEN DUTTA	PRAVEEN DUTTA	Reviewed by: RITESH KUMAR JAISWAL	RITESH KUMAR JAISWAL	Seal		Approved by: PRAVEEN DUTTA		Approved by:			

Digitally signed by PRAVEEN DUTTA, DN: cn=PRAVEEN DUTTA, o=POWERTEST DATA, ou=POWERTEST DATA, email=PRAVEEN.DUTTA@POWERTESTDATA.COM, c=IN, date=2022.07.23 12:26:39 +05'30'

		STANDARD QUALITY PLAN										SPEC. NO :		DATE:	
		CUSTOMER: TSGENCO										QP NO.: PE-QP-999-558-E001, R04		DATE: 23.07.2020	
		PROJECT: 4X270MW BHADRADRI TPS										PO NO.:		DATE:	
		ITEM: RIGID STEEL CONDUITS					SYSTEM: STATION LIGHTING SYSTEM					SECTION: II		SHEET 2 OF 3	
SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS			
1	2	3	4	5	6	7	8	9	*	**					
					M	C/ N		D		M	C	N			

2.3B	MASS OF ZINC COAT.	CR	TEST	IS 9537-II	IS 6745/ APPD DS	IS-6745/ APPD DS	INSP. REPORT	√	P	W	-	
2.3C	COATING THICKNESS	CR	TEST	IS 9537-II	IS 4759/ APPD DS	IS-4759/ APPD DS	INSP. REPORT	√	P	W	-	BY ELCOMETER Refer Note 8
2.3D	EPOXY THICKNESS	MA	VISUAL/PHYSICAL	IS 9537-II	50 MICRONS	50 MICRONS	INSP. REPORT	√	P	W	-	AS APPLICABLE
2.4	MARKING	CR	VISUAL/PHYSICAL	IS 9537-II	APPROVED DATA SHEET	APPROVED DATA SHEET	INSP. REPORT		P	W	-	

3.0 PACKING

Packing	Soundness of Packing against transit damage	Major	Visual	100%	100%	BHEL approved document	BHEL approved document	Inspection report	√	P	W	-
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NOTES:

- The inspection shall be carried out once for the material offered for inspection in one lot. For subsequent lots against the same project, the material can be accepted based on certificate of compliance furnished by the vendor.
- Project specific QP shall be based on customer requirement. In case, any changes in QP commented by customer at contract stage shall be carried out by bidder without any implication to BHEL/ Customer.
- For export jobs, BHEL technical specification for seaworthy packing for export jobs is to be followed.
- Packing shall be suitable for storage at site in tropical climatic conditions.

BHEL				BIDDER/SUPPLIER				FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING		QUALITY		SIGN & DATE		SIGN & DATE		SIGN & DATE		SIGN & DATE	
Prepared by:	MEET SAGAR SINGH RAJPAL/ MUDDIT CHOPRA	Name	KUNAL GANDHI	Checked by:	RITESH KUMAR JAISWAL	Reviewed by:	DUDDA	Approved by:	JAISWAL	Name	Seal
Reviewed by:	PRAVEEN DUTTA	Checked by:	RITESH KUMAR JAISWAL	Reviewed by:	DUDDA	Approved by:	JAISWAL	Approved by:	JAISWAL	Name	Seal

MEET SAGAR SINGH RAJPAL/ MUDDIT CHOPRA
 PRAVEEN DUTTA
 RITESH KUMAR JAISWAL
 JAISWAL

PROJECT	- 4 X 270 MW BHADADRI TPS.
PACKAGE	- RIGID STEEL CONDUIT

PVC FORMULA

Following PVC formula for the same to be followed.

$$P = P_o + SS(S-S_o) + ZZ(Z-Z_o)$$

Where

In formula P_o & P may be read as : P_o = PO Price and P =Final Price to be paid after considering PVC.

SS and ZZ are respectively the multiplication factors for steel and zinc respectively.

S and S_o are the average JPC steel price of H. R. COILS 2.00 MM for current and base month

Z and Z_o are the price of zinc from pole IEEMA for the current and base month. (Basic prices of raw materials used in the manufacture of Transmission Line Accessories and Hardware prevailing as on 1st working day of the month.

The multiplication factors are being considered as $SS = 0.85$ and $ZZ = 0.15$

Base Month/Date should be – 1st working day of the month, one month prior to the date of enquiry.

Final Month/Date should be – 1st working day of the month, one month prior to the date of dispatch/inspection call whichever is earlier.

Please refer the link: <http://10.1.50.45/mm/JPC/JpcArchives091019.html> for JPC steel price of HR Coil 2.00mm for current month

Please refer the attachment for latest IEEMA indices available of TLA & H for prices of Zinc.

PVC ceiling limit shall be positive (+ve) 20% and negative (-ve) unlimited.



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Cir. No. : IEEMA(PVC)/TLA&H(R-3)/08/2022

August 2022

To All members of TR. DIST. PROJECT division and respective PVC mailing list..
 All utilities & listed purchasing organisations

Basic prices of raw materials used in the manufacture of Transmission Line Accessories and Hardware
 prevailing as on 1st working day of the month of **August 2022**
 and

Corresponding applicable wholesale and consumer price Index numbers for the month of **June 2022**

This is for the application in IEEMA's Price Variation Clauses for Transmission Line Accessories & Hardware viz:
 IEEMA/PVC/TL-A&H/2001 (R-3) effective from 1st April 2014.

Sr. No.	Description	Price/Index	Variation over previous month
1.a	ALUMINIUM: (AL) EC Grade Aluminium Ingots confirming to specifications IS: 4026-1987	Rs. 2,35,751.00/MT	+ 2,586.00
1.b	LME ALUMINIUM : (Al) LME Average Settlement Price including Premium for Ingot for the month August 2022	Rs. 2,23,946.00/MT	+ 2,542.00
2	ZINC: (Zn) Price for Electrolytic High Grade Zinc	Rs. 3,10,400.00/MT	(-) 7400.00
3	BILLETS - Retail (SBIR) 100mm	Rs. 56,263.00/MT	(-) 792.00
4	CONSUMER PRICE INDEX: (W) * All India average consumer price index number for industrial workers (Base: 2016 = 100). For the month of June 2022	129.20	+ 0.20

* Refer cir no : 213/PVC/SOR/07 dated 05 November 2020

QE/PVC/27(R-03)
 ISSUED DATE: **05.09.2022**


Authorised Signatory

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