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பாரத் ஹெவி இலெக்ட்ரிகல்ஸ் லிமிடெட்
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited
(A Government of India Enterprise)
High Pressure Boiler Plant
Tiruchirappalli - 620 014

MATERIALS MANAGEMENT

Phone: 0431 - 257 8109, 7446; E-mail: kevin@bhel.in, mohann@bhel.in; www.bhel.com

NOTICE INVITING e-TENDER

Ref: BHEL/1702000436

13.10.2020

Dear Sir/ Ma'am,

Ref : Tender No. 1702000436 dt 13.10.2020

Subject : Two-part e-Tender inviting techno-commercial and price bids for supply of **Electromatic Relief Valve Controller Box for Coal Fired Thermal Power Plant for Koderma & Muzaffarpur projects on F.O.R. destination (BHEL Stores Trichy) basis (inclusive of P&F and Freight).**

Kindly submit your competitive offer as per the tender terms and conditions given in the tender document through e-procurement portal <https://bhel.abcpocure.com> only.

st date/ time for receipt of tender	14:00 Hrs on dt. 23.10.2020
ate/ time of opening of Techno-commercial bids	14:30 Hrs on dt. 23.10.2020 Change in opening date, if any, will be intimated later.
ate of price bid opening	The date/ time of price bid opening will be intimated to the techno-commercial qualified tenderer separately.

This two-part e-tender consists of the following documents:

1. Pre-Qualification Requirement
2. Annexure A -Techno - commercial terms and conditions
3. Technical Specifications
4. Drawings
5. QPs
6. Packing Procedure
7. Self-declaration format for Make in India
8. CA certificate format for MSE vendors
9. No Deviation Format

General Instructions

- The tender documents shall be deemed to form an integral part of the purchase order.
- Tender can be cancelled at any stage due to unavoidable circumstances.
- Bidders are advised not to wait till the last minutes w.r.t tender closing time to submit their offer to avoid complications related with internet connectivity / network problem/ power failure etc.
- Bidders are advised take due care while quoting the technical and price bids forms in the e-procurement system. Bidders, those who tampers with tendering procedure affecting ordering process or misusing the technical information of the tender document or withdrawing their offer after price bid opening, will be penalized as per BHEL guidelines on suspension of business dealings with suppliers/ contractors. Abridged version of the guideline is available in www.bhel.com.

- Bidders who have been suspended or black listed or issued with “Show Cause Notice” by BHEL, Tiruchirappalli or any other unit or GOI will not be allowed to participate in the tender and bidder should declare the same in the tender. Even during the course of evaluation/ finalization of tender, if it is found that some of the parties are black listed/ barred from business transaction/ under business hold, BHEL will not consider them for further participation in the tender.
- It is advised that all the documents to be submitted are kept scanned or converted to PDF format in a separate folder on your computer before starting online submission.
- DISCLAIMER CLAUSE: Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider (M/s. ABC Procurement Technologies Limited) is responsible for any failure of submission of bids, due to failure of internet or other connectivity problems or reasons thereof.

Thanking you,

For **Bharat Heavy Electricals Limited**

Kevin Ark Kumar

Manager / Materials Management

Fourth floor, 24 Building

B.H.E.L., Tiruchirappalli – 620 014, Tamil Nadu

Phone: 0431-2578109 / Email: kevin@bhel.in

ANNEXURE - A

TECHNO - COMMERCIAL TERMS AND CONDITIONS

Description of the Material:		ELECTROMATIC RELIEF VALVE CONTROLLER BOXES FOR COAL FIRED THERMAL POWER PLANT
BHEL Tender No. & Date		
GENERAL INFORMATION		
QUOTATIONS: Interested bidders / Suppliers shall submit their offer through e-Procurement mode at https://bhel.abcprocure.com Offers in any other mode will not be accepted. For Enterprise Procurement System (EPS) Bidders/Suppliers are requested to follow these steps. In case of any assistance, please contact for support in this link: https://bhel.abcprocure.com/EPROC/contactus		
The bidder has to keep track of any changes by viewing the addendum / Corrigendum's Issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.		
Sl. No.	Terms and conditions	Vendor's confirmation
1	PRE-QUALIFICATION REQUIREMENT	Reply
	i. Bidder should have the capability for manufacturing and supply of electrical control boxes, starter boxes, wired junction boxes made of sheet metals similar to ERV Control box, as per BHEL's enquiry, for industrial applications.	(i) Yes / No
	ii. Bidder should have experience of executing orders, for the supply of items as indicated in point (i), during last 5 years as on tender opening. (Experience from BHEL to be supported by executed PO copies; Experience other than BHEL to be supported by executed PO copies and completion certificate issued by the organization).	(ii) Attached / Not Attached
	iii. Bidder should furnish the list of manufacturing facilities, machineries available with them.	(iii) Attached / Not attached
	Technical Offer: The Control Boxes / Stations shall be as per the Specification: TCI/250 Drawing No.s : 3-97-577-09562/07, 3-97-577-09565/04, 4-97-577-10225/02 & 4-97-577-10226/03. Applicable Quality Plan: QA:CI: STD: QP: 34 & QA:CI:STD:QP:60 REV 01 Packing Procedure: QA:CI:STD:PR:02 REV 03 Note: ERV Switches will be issued for Control Stations from BHEL Stores Trichy	Yes / No
2	Firm Price: The quoted / finalised rates shall be Firm till execution of the supplies. Vendor has to quote price according to the requirement as detailed in the attached technical documents. Unless there is a change in technical specification from BHEL side, impact price will not be allowed. ➤ BHEL will finalize the rates through price bid opening. Hence, Tenderers are requested to give their best prices at the first instant itself. ➤ In the event of the final L1 prices are not reasonable / acceptable to BHEL; BHEL also may resort to short closure of this Tender. ➤ In case of more than one L1 bidders, BHEL will get fresh revised reduced price bids from all such L1 bidders & ranking will be decided based on these revised bids. The new rates quoted should be lower than their previous L1 rates. If L1 could not be decided by this process, ranking will be decided by draw of lots in the presence of all such L1 bidders Any pre-bid query, kindly contact: Mr. Kevin Ark Kumar , Dy.Manager/Materials Management/BOI Tel: 0431-2578109, email: kevin@bhel.in ; Mr. N Mohan , Asst./Engineer/Materials Management/BOI Tel: 0431-2577446, email: mohann@bhel.in and get your queries cleared before submitting the offer in EPS. Rates/ other price elements once quoted in the online in the Enterprise Procurement System (EPS) cannot be changed after due date shall remain final.	Accepted / Not Accepted
3	The tender is floated as a Single Package:	Noted
4	Delivery term: F.O.R BHEL Stores Trichy Basis inclusive of Packing & Forwarding and Freight Insurance will in BHEL Scope	Accepted / Not Accepted
5	Payment term: 100% NEFT after 60 days of receipt & acceptance at Stores	Accepted / Not Accepted
6	Deviation in Payment Terms: Any deviation in the above Payment Terms (SI No. 5), any other conditions in payment terms or any other payment term will not be accepted and offers are liable to be commercially rejected.	Noted

7	Liquidated damages: Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional LD at the rate of 0.5% of the Total order value per week of the delay or part thereof subject to a maximum of 10% of the total order value.	Accepted / Not Accepted
8	Loading Criteria LD / Penalty: Any deviation on BHEL LD / Penalty clause, loading (Basic material Value) will be applied to the extent to which it is not agreed by the bidder. LD is for Total Order Value and not for undelivered goods. If LD for undelivered portion is only acceptable then a loading of 10% on Basic Material Value will be applied.	Noted
9	Guarantee / Warranty Period : Guarantee clause 18 months from the date of supply or 12 months from the date of actual put in use, whichever is earlier.	Accepted / Not Accepted
10	Deviation in Guarantee / Warranty Period: No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period. Their offer will be rejected.	Noted
11	Delivery Period: BHEL standard delivery is <u>Eight weeks from issue of ERV Switches</u> . Vendor quoted delivery period shall include all activities i.e. manufacturing / production, Inspection, Packing, Forwarding, dispatch.	Accepted / Not Accepted
12	Validity: 120 days from techno commercial bid opening date	Accepted / Not Accepted
13	RISK PURCHASE: In case of abnormal delays (beyond the maximum late delivery period as per LD clause) or non-fulfilment of any other terms and conditions given in work order, BHEL may cancel the work order in full or part thereof, and may also make a contract of such work/service from elsewhere / alternative source at the risk and cost of the original contractor. BHEL will take all reasonable steps to complete the contract obligations from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract. Risk & cost clause, in line with conditions of contract may be invoked in any of the following cases: 1. Contractor's poor progress of the work vis-à-vis execution timeline as stipulated in the contract, backlog attributable to contractor/ supplier including unexecuted portion of work/ supply does not appear to be executable within balance available period (#) considering its performance of execution. 2. Withdrawal from or abandonment of the work by contractor before completion of the work as per contract. 3. Non completion of work / Non-supply by the contractor within scheduled completion/delivery period as per contract or as extended from time to time, for the reason attributable to the contractor. 4. Termination of contract on account of any other reason (s) attributable to contractor. 5. Assignment, transfer, subletting of contract without BHEL's written permission resulting in termination of Contract or part thereof by BHEL. 6. Non-compliance to any contractual condition or any other default attributable to contractor. Risk & Cost amount against balance work will be calculated as follows: $\text{Risk \& Cost Amount} = [(A-B) + (A \times H/100)]$ Where, A= Value of Balance scope of Work/ Supply (*) as per rates of new contract B= Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the contractor/ supplier 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). *(Balance scope of work/ supply) 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/ Supply 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.	Accepted / Not Accepted

	NOTE: In case portion of work is being withdrawn, contract quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work/supply' for calculating Risk & Cost amount.	
14	GST DETAILS, BHEL TRICHY GST No. 33AAACB4146P2ZL	Noted
15	Please mention your GSTIN Number	
16	HSN Codes for Quoted Material:	
17	Applicable GST Rate:	
18	Implementation of GST 1. Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration no which should clearly mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer. 2. Supplier shall mention their GSTIN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc. 3. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code). 4. A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL. 5. All documents like Mill Test Certificate, LR copy, Guarantee/Warranty certificate, work completion certificate, any other document mentioned in PO, shall be sent along with the vehicle/consignment. For all consignments received within the calendar month, input credit will be availed within that month in line with monthly returns filing cycle. In case of any discrepancy in the document or non-submission of documents mentioned in the PO, then BHEL will not be able to accept or account the material, in such case availing of tax credit will be deferred to next month or so. 6. In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the suppliers, within the calendar month notified by BHEL. For any such delay in availing of tax credit for reasons attributable to supplier (as mentioned above), interest (calculated @ SBI Base Rate + 6%) along with penalty if any will be deducted for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills	Noted
19	Unregistered BHEL (Non-PMD) Temporary vendors for this item code should Supplier should submit the filled in supplier registration forms (SRF) available in the BHEL website https://supplier.bhel.in and the other required documents called for in the SRF. The hard copy of the submitted SRF shall be submitted to SDC Dept. The contact details of SDC are as below: Ms. Nalini Subramanian, SDC / MM, 4th Floor, Building 24, BHEL, Trichy - 620014 Ph. No.: 0431-2577301, nalini.s@bhel.in Registered BHEL PMD vendors (for this item / Matl Gp) need not submit the SRF and this point is not applicable.	Accepted / Not Accepted
20	New Unregistered vendors quoting against this Open Tender shall submit credentials such as previous executed PO copies, performance certificate..etc for taking up with our Customer, Their Part-II bid will be opened subject to customer approval; else their offer shall be rejected.	Credentials Submitted / Not Submitted
21	Document Submission: Along with the offer: 1. All the technical documents which have been attached along with our enquiry i.e Specification, Drgs, QP, Packing Procedure, Data Sheet etc, signature to be endorsed on all pages with company seal Technical documents & Sub-delivery enquiry deviation format. 2. Filled-in/signed Annexure-A, Commercial terms and conditions. (Mandatory for Commercial evaluation) 3. Unpriced offer submitted through EPS shall contain minimum of above documents, without which offer is liable for rejection. 4. If MSE vendor, please attach UAM No. along with CA Certificate & Udhyaam Regn No.	Submitted/ Not Submitted

21A	Any deviation on technical/QP/packing requirements shall specifically be indicated in the “sub-delivery enquiry deviation format” attached along with the enquiry. Deviations / clarifications declared elsewhere will not be evaluated. Also, any deviations from the commercial terms and conditions shall be clearly spelt out in this format itself. Deviations / clarifications declared elsewhere will not be evaluated. Deviations taken, if any, by vendor as per our requirement above shall be clearly got accepted by BHEL in writing during enquiry stage itself. In the event of an order no deviations, unless accepted clearly by BHEL in writing during enquiry stage will be entertained and all other techno-commercial requirements will be binding on successful bidder and failure to execute the terms will lead to disciplinary action by BHEL against the said bidder.	Accepted / Not Accepted
22	BENEFITS TO MSE VENDOR: MSE suppliers can avail the intended benefits only if they submit along with the offer, attested/notarized copies of either 1. Valid NSIC certificate or EM II certificate along with CA certificate applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits as per the act for relevant status (MICRO or SMALL) where the deemed validity of EM II is over. OR 2. Udyog Aadhaar Memorandum No. & CA Certificate applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits as per the act for relevant status. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry, in case of any deficiency in the above required documents or in case the documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal even if submitted earlier. Documents should be notarized or attested by a Gazetted officer. For Package basis (Non-Splitable): i. If L1 vendor is an MSE vendor entire project package will be ordered on L1 vendor. ii. If a Non MSE vendor is coming as L1, then L1 prices will be counteroffered on MSE vendor who is quoting price within the price band L1+15% and if they are agreeing, purchase order will be awarded for full/complete supply of total tendered value to MSE. iii. If more than one MSE vendors are available in the L1+15% price band then lowest of the MSE vendor will be selected for counteroffering. If lowest MSE vendor is not accepting it will be counteroffered to the next MSE vendor in the price band and so on. iv. Finally if none of the MSE vendor in the price band is not accepting, it will be ordered on L1 non MSE vendor. For Item wise evaluation (Splitable): If a Non MSE vendor is coming as L1, then L1 prices will be counteroffered on MSE vendor who is quoting price within the price band L1+15% and if they are agreeing, purchase order will be awarded for 25% of the tendered quantity. ➤ 3% reservation for women owned MSEs, within the above mentioned 25% reservation. ➤ 6.25% reservation from MSE owned by SC / ST entrepreneurs, within the above mentioned 25% reservation. In case of more than one such MSE, the supply shall be shared proportionately. Payment for MSE indigenous vendors will be as per MSMED Act, 2006.	Accepted / Not Accepted
23	Definitions of MSEs owned by SC/ST is under: • In case of proprietorship firm, proprietor must be SC/ST. • In case of partnership firm, the SC/ST partners must be holding at least 51% shares in unit. In case of private limited companies, at least 51% share must be held by SC/ST promoters. Authorised Offices to Issue SC/ST certificate. The caste/Tribe/Community certificate issued by the following authorities in the prescribed form for SCs/STs can be considered. • District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / 1st class stipendiary magistrate / Sub divisional Magistrate / Taluka Magistrate / Executive magistrate • Chief Presidency magistrate / Additional chief presidency magistrate/Presidency magistrate. • Revenue Officer not below the rank of Tehsildar. • Sub-Divisional officer of the area where the individual and / or his family normally resides. To avail the benefits of MSE under SC/ST category, the related documents as stated above should be submitted along with tender documents.	Accepted / Not Accepted
24	Vendors who have registered themselves as MSE, cannot claim the benefits unless they submit the CA Certificate & UAM Registration copy along-with the EPS offer for each tender; failing which vendor shall not claim MSE benefits. As per Gazette Notification no. S.O. 2119(E) dated 26.06.2020 issued by Ministry of MSME regarding change in definition of Micro, Small & Medium Enterprises (MSMEs) applicable w.e.f. 01.07.2020 as follows: Udyam Registration is a new process of MSME Registration launched by the Ministry of Micro, Small and Medium Enterprises on July 1, 2020.	

	All existing enterprises registered under EM-Part-II or UAM or any other registration issued by any authority under the Ministry of MSME are required to register again on the Udyam Registration portal (https://udyamregistration.gov.in). Such enterprises are required to apply and obtain Udyam Registration on or after 1st July 2020. On registration, an enterprise is assigned with a permanent identity number, known as “Udyam Registration Number”. An e-certificate, namely, “Udyam Registration Certificate” will be issued on completion of the registration process. The MSE status of existing enterprises registered prior to 30th June 2020 shall be valid only till 31st March 2021. (i.e.) Udyam Registration Certificate is mandatory for all MSME enterprises from 1st April 2021.	Noted
25	Any deviation on technical/QP/packing requirements shall specifically be indicated in the “sub-delivery enquiry deviation format” attached along with the enquiry. Deviations / clarifications declared elsewhere will not be evaluated. <u>Also, any deviations from the commercial terms and conditions shall be clearly spelt out in this format itself.</u> Deviations / clarifications declared elsewhere will not be evaluated. Deviations taken, if any, by vendor as per our requirement above shall be clearly got accepted by BHEL in writing during enquiry stage itself. In the event of an order no deviations, unless accepted clearly by BHEL in writing during enquiry stage will be entertained and all other techno-commercial requirements will be binding on successful bidder and failure to execute the terms will lead to disciplinary action by BHEL against the said bidder.	Accepted / Not Accepted
26	The evaluation is on Project-wise package basis, offers with partial quantity in a package will be rejected. L1 will be arrived on FOR Destination Value, inclusive of all taxes & loading, if any.	Noted
27	While submitting price bid in the EPS, vendor shall not quote different prices for identical items listed in enquiry (main boilers & spares). In case different prices are quoted for same / identical items/ materials, lowest of the two will be considered for ordering.	Accepted
28	Vendor to submit unpriced bid along with the Part-I Bid in the EPS.	Attached / Not attached
29	Vendors who have registered themselves as MSE, cannot claim the benefits unless they submit the CA Certificate & UAM No. along-with the EPS offer for each tender; failing which vendor shall not claim MSE benefits. Vendor has to get registered in Udyam Portal and forward the registration Certificate.	Accepted / Not Accepted
30	Any pre-bid queries / clarification / document requirement etc. shall be asked within 3-4 days of floating tender in EPS. Tender due date extension will not be given without valid reason. Tender due date extension request has to be given before due date / time along-with a valid reason.	Noted
31	Vendor should provide confirmation to commercial terms & conditions specified in this Annexure and any different terms & conditions in the unpriced bid / offer documents / Remarks etc., will not be accepted. Only Annexure-A will be considered	Noted
32	“Sub-Delivery Enquiry Deviation Format” is important document which has to be filled, (signed & sealed) with all the technical reference document detail and attached along with the offer in the EPS. In case of no deviations. Please mention NIL DEVIATION.	Attached / Not Attached
33	All the technical documents, if attached by BHEL along with the enquiry/ RFQ (Specification / Drawing / QP / Datasheet / Packing Procedure etc.) which are part of this e-tender, should bear your conformation / confirmation and sign with seal on each page. The same shall be scanned & attached as PDF files along with the offer for technical evaluation. (In case of Spares, reference PO is mentioned in the tender general notes, then technical documents need not be submitted, however, Deviation format mentioning the reference PO needs to be submitted)	Technical Docs Submitted / Not Submitted
34	Technical / commercial clarification, if any, will be initiated through EPS / email. Vendor to respond to the clarifications within 3 working days. If the vendor fails to respond, even after three reminders, then the vendor will be considered as non-responsive and is liable to be rejected. Please note that EPS generates auto email whenever clarification / tender event is scheduled. Vendor to keep track and respond immediately.	Noted
35	PO Acknowledgement: Within 7 days from the date of receipt of scanned PO copy through email.	Accepted
36	Document Submission after PO: Complete set of valid Documents as per BHEL format viz., Datasheet, GA drawing and QAP / RQP / VQP are to be submitted within 14 days from the date of receipt of PO (e-mail copy). If there is a delay in submission of valid documents within 14 days, the delay will be accounted for the calculation of LD.	Accepted
37	Inspection notice period: Vendor shall raise inspection call to Third Party Inspection Agency / BHEL at least three working days, prior to the proposed date of inspection. Place shall be vendor Works.	Accepted
38	Vendor shall dispatch the consignment immediately after getting dispatch clearance from BHEL, subsequent delay will be accounted for calculation of LD.	Accepted

39	FORCE MAJEURE CLAUSE: If, at any time during the continuance of Contract the performance in whole or in part by either party of any obligations under the Contract shall be prevented or delayed by reason of any War, Hostile acts of the public enemy Civil Commotion, Epidemics, or Acts of God (Floods, Storm/Cyclone, Hurricane, Earth Quake etc.) then provided notice of happening of any such event is given by either party to other within 7 days from the date of occurrence therefor neither party shall by reason of such event be entitled to terminate this Contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under the Contract is prevented or delayed by reason of any such event, claims for extension of time shall be granted for periods considered reasonable by BHEL, subject to prompt notification by the contractor.	Accepted
40	In the event of PO, the reference date for LD calculation will be date of LR.	Accepted
41	Fraud Prevention Policy Suppliers involving in fraudulent practices or delayed supply (or) non-Supply will be dealt with provision as indicated in "Guidelines for Suspension of Business Dealings with Suppliers / Contractors" which is hosted in website www.bhel.com . The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com . 1.0 Integrity commitment, performance of the contract and punitive action thereof: 1.1 Commitment by BHEL: BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in transparent and fair manner, and with equity. 1.2 Commitment by Bidder / Supplier / Contractor: 1.2.1. The bidder / supplier / contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India. 1.2.2. The bidder / supplier / contractor 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 and shall adhere to relevant guidelines issues from time to time by Govt. of India / BHEL. 1.2.3. The bidder / supplier / contractor will perform / execute the contract as per the contract terms & Conditions and will not default without any reasonable cause, which causes loss of business / money / reputation, to BHEL. If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions.	Noted
42	Inspection & testing requirements shall be done as per QP or approved vendor QP	Noted
43	Repair & replacements: Within the guarantee period vendor has to replace / rectify the defective/ damaged items on free of cost within a reasonable time of reporting from our end. All incidental charges like freight, insurance and customs duty / GST are to vendor account only. The defective parts and components shall be collected by your Indian agent or / authorized person, only after completing the replacement / repairs. The defective parts / components will not be returned back to vendor works by us due to procedural problems.	Accepted
44	BHEL reserves the right to cancel / modify the tender, if the need so arises, without assigning any further notice or reason therefore.	Accepted
45	Preference to Make in India: For this procurement, Government of India Order: Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018, 29.05.2019 & 04.06.2020 and subsequent orders issued by the respective Nodal ministry shall be applicable, even if issued after issue of this NIT but before finalization of contract/PO/WE against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/or local content in respect of this procurement, the same shall be applicable.	Noted
46	Indigenous vendors to submit Self-certification in Letterhead indicating the percentage of Local content	Submitted / Not Submitted

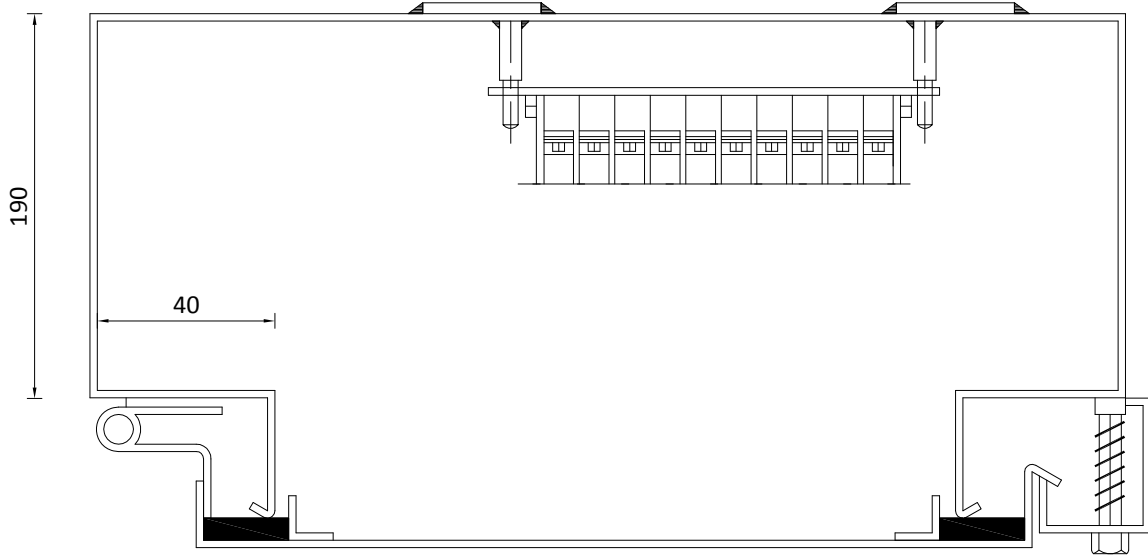
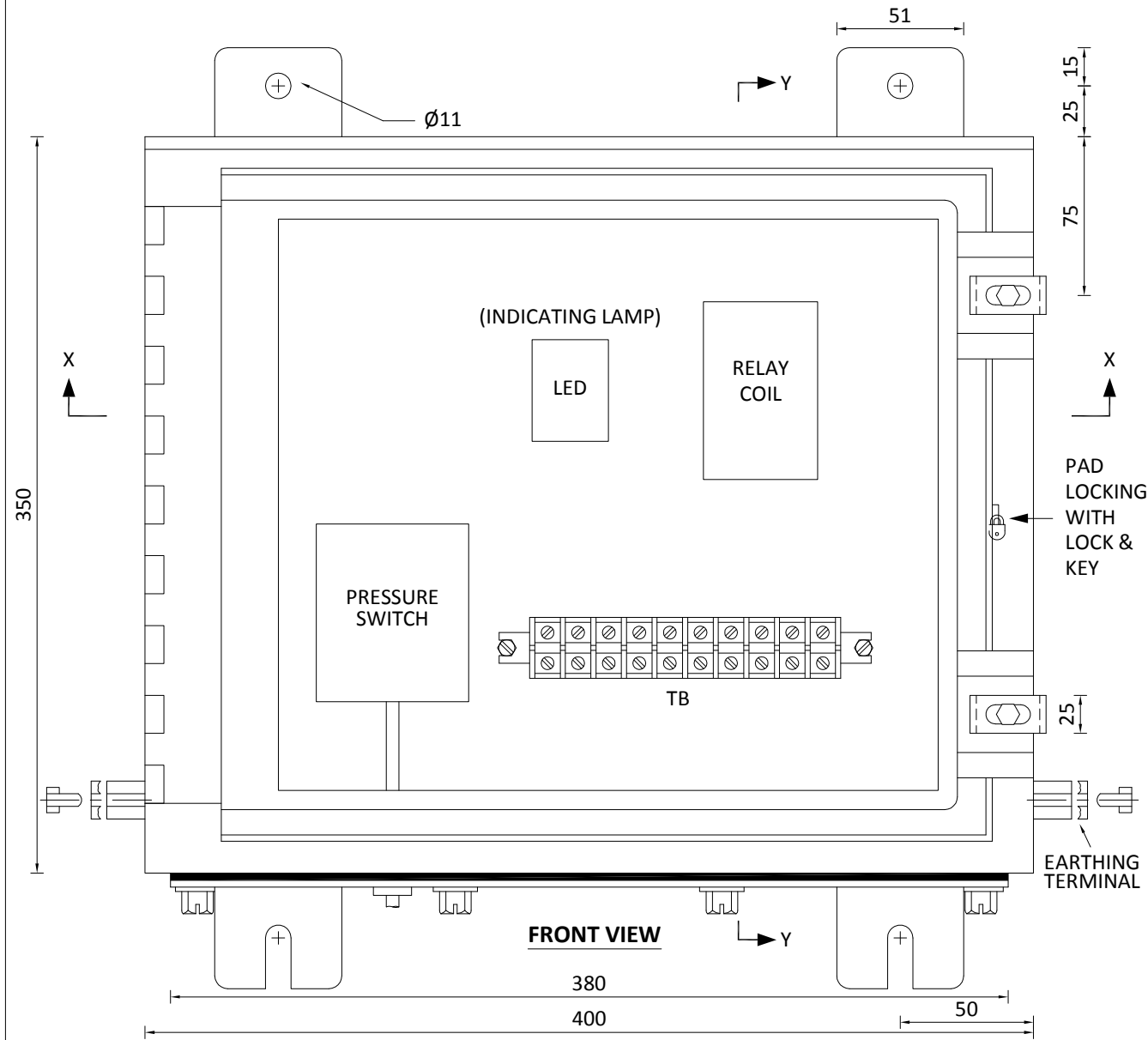
By signing this Annexure, the vendor consents that the terms & conditions accepted, in this Annexure-A alone, shall be binding between BHEL and the Vendor; and no other terms quoted / mentioned, elsewhere in the Offer / Quotation will be considered / accepted by BHEL.

Sl. No	Technical Description/ Requirement	
1.	General	This technical specification covers the requirements of the Electro - Matic relief valve Controller box, for Super Heater/ Re Heater Steam relief applications of thermal power boilers.
2.	SITE CONDITIONS: - Altitude above Sea Level Atmosphere Relative humidity Operating temperature	500 Meters Tropical, Dusty, Windy & Heavily polluted atmosphere 100 % 50 degree Celsius
3.	Input Documents to be followed	• Operational Logic & Wiring Drawing: As per the drawing 3-97-577-09565, Rev. 04 • General Arrangement as per the drawing 3-97-577-09562, Rev. 07 • Name Plate & Instruction Plate details: As per the drawing 4-97-577-10225, Rev. 02 & 4-97-577-10226, Rev. 03
4.	Construction Details	• ERV Controller Box - Material of construction: CRCA Sheet Steel, Grade D as per IS513 of thickness - 2 mm. • Component Mounting plate and Cable gland plate – Material of Construction: Galvanized, CRCA Sheet Steel, Grade D of thickness – 3 mm, Galvanization thickness - 15 to 25 microns. • The mounting plate shall be mounted on the studs (4 nos.). The studs shall be welded in the inside of the box. • Suitable Slot shall be provided in the cable gland plate matching the pressure switch dimensions for tight fit. • Neoprene Gasket of thickness 3 mm shall be provided for the Gland plate and Door.
5.	Enclosure protection	Protection Class : IP 65
6.	Electrical and Pneumatic Entries	2 nos. of ¾" and 1 no. of 1" hole shall be provided in the Gland plate for the entry of Cables and Impulse line for

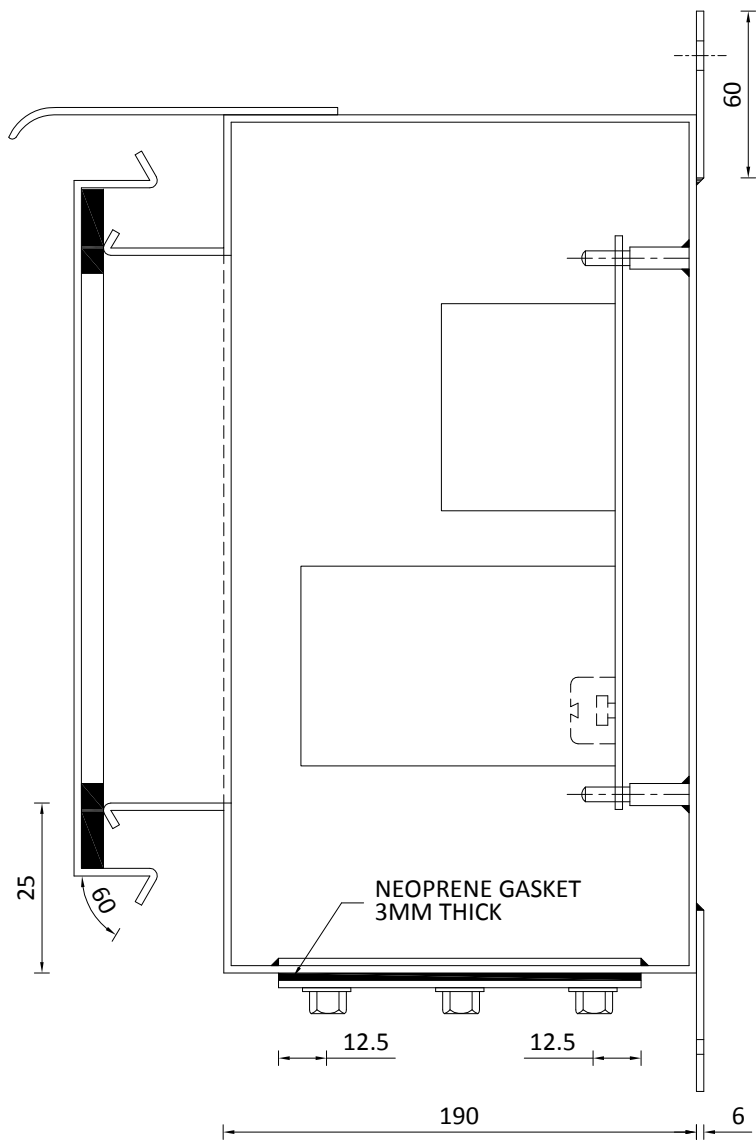
Sl. No	Technical Description/ Requirement	
		pressure switch. Dummy plugs shall be provided on the holes to avoid water entry.
7.	Door & Locking Arrangement	• Continuous Hinged Door suitable for 180° opening shall be fitted on left side of the box. Door shall also be earthed by using flexible Copper Braid. • Rider Clamp arrangement shall be provided for locking. • Padlocking arrangement with 1 no. lock and 3 nos. key shall be provided.
8.	BOM & Accessories	All the accessories shall be rated for either 220 V DC or 110 V DC, as per the voltage (project specific) indicated in the purchase enquiry. Following are the BOM to be followed. 1) Dual Set point, Bourdon tube pressure switch of electrical rating 0.25 A, 220 V DC. Pressure switch model shall be selected as per the Open & Close set points, Maximum pressure furnished in the enquiry. Test/ Calibration certificates and tag plates shall be supplied. Make: M/ s. Barksdale, GmBH. Set point shall be indicated on the pressure switch in kg/ cm². 2) 2 pole, 220 V DC Coil, Contactor of current rating 32 A (Make SIEMENS, Model: 3TC-44-170A or equivalent model from any of the makes as indicated in QA:CI: STD: QP:34). 2 nos. of power contacts, 2 NO + 2 NC Auxiliary Contacts shall be provided. 3) 1 No. of Red coloured, LED type indicating lamp. 4) Terminal blocks suitable for current rating 32 A. 5) 2 nos. of Metal Oxide Varistor. For items 3 and 4, any of the Makes as indicated in the document QA:CI: STD: QP: 34 shall be followed.

Sl. No	Technical Description/Requirement	
9.	Mounting & Earthing	- The box shall be provided with 4 Nos. of Mounting brackets with 50 mm wide, 6 mm thick plates. Galvanized Mounting bolts (M10 x 40 mm), Spring washers and Nuts shall be supplied. - Earthing Bolts – MS with Chromium plate (Plating thickness – 10 to 15 microns).
10.	Wiring & Ferruling	- All internal wiring shall be done by us using 2.5 Sq. mm. stranded, single core copper PVC insulated wire. - Suitable type crimping lugs, shall be used for wiring. - Yellow ferrule with black lettering shall be used Over the insulation for wire identification.
11.	Painting	- Powder coating shall be done for both exterior and interior surface of the controller box. Paint shade will be furnished in the enquiry. - Exterior: Semi-glossy finish, minimum thickness - 60-70 microns. - Interior: Glossy finish, minimum thickness - 50 – 60 microns.
12.	Name plate & Instruction Plate Drawings	- Name plate as per the drawing 4-97-577-10225, Rev. 02 shall be provided at the front side of the box. - Instruction Plate as per the drawing 4-97-577- 10226, Rev. 03 shall be fixed at the backside of the door.
13.	Wiring	All the electrical accessories and the pressure switch shall be wired in the ERV control box as per the wiring drawing.
14.	Inspection & Testing	- Inspection and testing of the ERV controller box will be as per the quality plan QA:CI: STD: QP:60 (latest revision). - For each pressure switch, vendor has to submit the Calibration test certificates from the OEM for BHEL's verification.

Sl. No	Technical Description/ Requirement	
15.	Packing procedure	Packing procedure QA:CI:STD:PR:02 (Latest Revision) shall be followed.
16.	Documents to be submitted during the offer	a) The Sub-Delivery Enquiry Deviation format shall be filled in with the details of BHEL's enquiry number, project name, technical specification of the ERV, General Arrangement, Wiring drawing, Name Plate drawing, instruction plate drawing, Quality plan & Packing procedure. b) Conforming to all the requirements, vendor to indicate "No deviation" in the sub-delivery enquiry deviation format. c) Vendor to note that Any deviation/ clarification/ alternate offer to the BHEL's enquiry requirements, shall only be indicated in the Sub-Delivery Enquiry Deviation form. Deviations indicated elsewhere in the offer will not be considered.
17.	Documents to be submitted on placement of purchase order	a) General arrangement drawing, wiring drawing, terminal block drawing. b) Bill of material with make, model no., rating and quantity of components. c) Operation & Maintenance manuals containing the catalogues of various accessories.



SECTION-XX



SECTION-YY

REV	DATE	ALTERED : <i>அ.தில்லி</i> 160620	REV	DATE	ALTERED : <i>அ.தில்லி</i> 220809	REV	DATE	ALTERED <i>அ.தில்லி</i> 220104
07	160620	CHD./APPD. :	06	110210	CHD./APPD. : <i>Sd./SK-RD</i>	05	220809	CHD./APPD. : <i>Sd./SK-RD</i>
REVISED AFTER REVISIT.			GENERAL REVISION, REARRANGEMENT OF TBs AND RELAY & NOTES UPDATED.			GENERAL REVISION, RESISTANCE DELETED AND NOTES UPDATED.		
						GENERAL REVISION FOR RATE CONTRACT		

REV	DATE	ALTERED : <i>அ.தில்லி</i> 271299	REV	DATE	ALTERED : <i>அ.தில்லி</i> 120499	REV	DATE	ALTERED : <i>அ.தில்லி</i> 281097
03	271299	CHD./APPD. : <i>Sd./VSN-KCM</i>	02	120499	CHD./APPD. : <i>Sd. / KCM</i>	01	281097	CHD./APPD. : <i>Sd. / KCM</i>

BOX DIMENSION CORRECTED.

RELAY TYPE NO CORRECTED
IN NOTE NO : 9

REF. DRG. No. REVISED IN
NOTE 14 & 16.



TIRUCHIRAPPALLI

DEPT. : C&I

CODE : 392

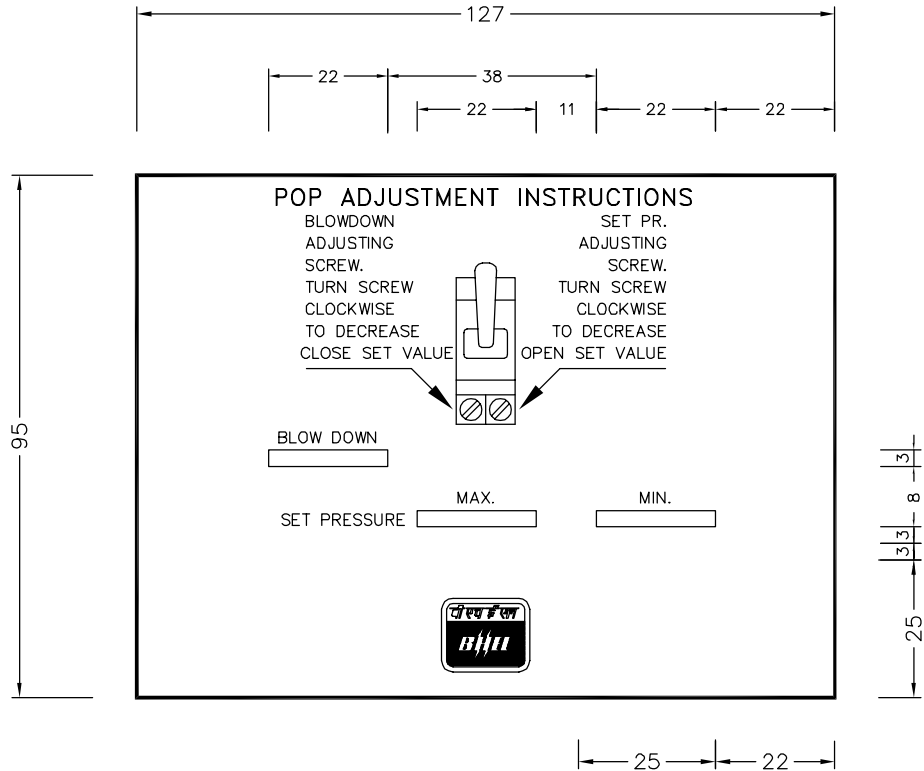
S T A N D A R D

TITLE
ELECTROMATIC RELIEF VALVE
CONTROLLER

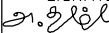
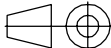
DRN.	NAME	SIGNATURE	DATE	SCALE
CHD.	A.Thamburaj	<i>அ.தில்லி</i> 1110496	11-04-96	NTS
APPD.	K.Chandramohan	<i>Sd. / KCM</i>	22-04-96	
	S.Jayaprakash	<i>Sd. / SJP</i>	22-04-96	
SHEET NO.	DRAWING NO :		REV	
01/01	 3-97-577-09562		07	

THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL.
CAUTION: IT MUST NOT BE USED DIRECTLY OR INDIRECTLY
IN ANY WAY DETRIMENTAL TO THE INTEREST OF BHEL

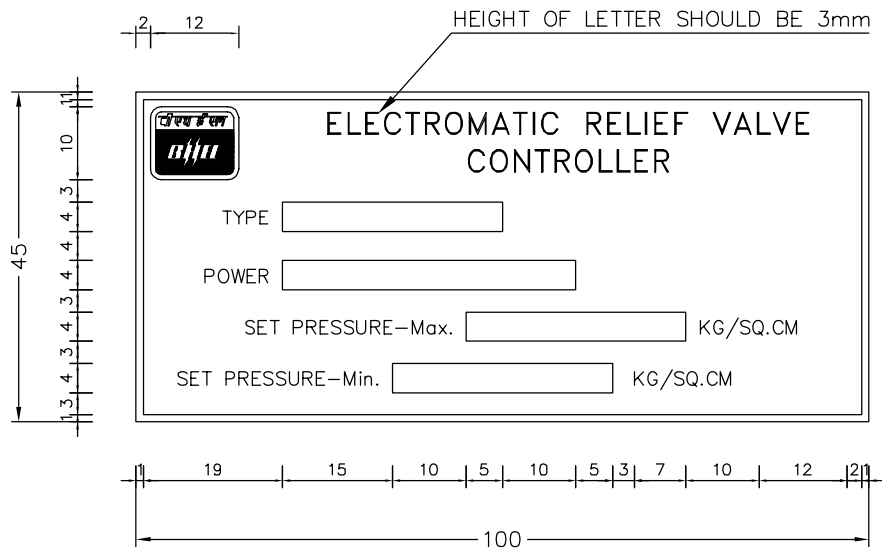
REV	DATE	ALTERED : <i>அ.தமிழ்</i> 250809	REV	DATE	ALTERED : <i>அ.தமிழ்</i> 030211
02	250809	CHD./APPD. : Sd./SKS-RD	03	030211	CHD./APPD. :
GENERAL REVISION			GENERAL REVISION.		



- NOTE**
1. 1 MM THICK ALUMINIUM PLATE BLACK ENAMEL LETTER ON WHITE BACKGROUND.
 2. UNLESS OTHERWISE SPECIFIED ALL LETER HEIGHTS TO BE 2.5 MM. (MIN.)
 3. THE EMBLEM SHALL BE BASED ON CORP. STD. MONOGRAM15-AA 0401120.
 4. EMBLEM SHOULD BE PLACED IN SPACING 127 X 25 AS SHOWN (CENTRED)

S T A N D A R D								
	Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI – 620014		DRN	NAME A.Thamburaj	SIGNATURE  1281097	DATE 28-10-97	NO. OF VAR	
			CHD	V.Sridharan	Sd. / VSN	31-10-97	—	
			APPD	K.Chandramohan	Sd. / KCM	31-10-97	—	
DEPT. : C & I		SCALE	WEIGHT (Kg) —		REF TO ASSY / OLD DWG —		ITEM NO	No OF ITEMS
CODE : 392		NTS					—	
TITLE : ERV CONTROLLER INSTRUCTION PLATE			CARD CODE U 01	DRAWING NO : 4-97-577-10226			REV 03	
Sheet 01 of 01								

REV 01	DATE 220104	ALTERED : <i>अ.श्रीधर</i> 220104	REV 02	DATE 220809	ALTERED : <i>अ.श्रीधर</i> 220809
		CHD./APPD. : Sd./MS-RD			CHD./APPD. :
GENERAL REVISION FOR RATE CONTRACT			GENERAL REVISION		



NOTE

1. MATERIAL: – ALUMINIUM t = 0.53MM (0.021")
2. UNLESS OHERWISE SPECIFIED ALL LETER HEIGHTS TO BE 1.5 MM (MIN)
3. UNLESS OTHERWISE SPECIFIED FIGURES, SPACES,AND BORDER TO BE RAISED AND BUFFED ON A WHITE BACKGROUND.
4. THE EMBLEM SHALL BE BASED ON CORP. STD. MONOGRAM 10 – AA0401120–REV.:01

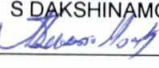
S T A N D A R D

	Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI – 620014		DRN	NAME A.Thamburaj	SIGNATURE  281097	DATE 28-10-97	NO. OF VAR	
			CHD	V.Sridharan	Sd. / VSN	31-10-97	_____	
			APPD	K.Chandramohan	Sd. / KCM	31-10-97	_____	
DEPT. : C & I		SCALE	WEIGHT (Kg)		REF TO ASSY / OLD DWG		ITEM NO	NO OF ITEMS
CODE : 392		NTS						
TITLE :			CARD CODE	DRAWING NO :				REV
ERV NAME PLATE			U 01	4-97-577-10225				02
								Sheet 01 of 01

**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI**

**CONTROLS AND INSTRUMENTATION / FB
QUALITY ASSURANCE**

**STANDARD PACKING PROCEDURE
FOR
ELECTRICAL AND ELECTRONIC PANELS
(INCLUDING BOXES, CABINETS, CUBICLES, SYSTEMS AND CHASSIS)**

Rev	Date	Prepared	Checked	Approved	Revision History
00	01.01.96	Sd/-	Sd/-	Sd/-	Initial History
01	28.03.02	A.J.OMPRAKASH Sd/-	R.VARADARAJAN Sd/-	G.MATHIYALAGAN Sd/-	Department name changed
02	26.02.07	RM.VAIRAVAN	N.SRIDHAR	S.SOMASUNDARAM	Revised after discussion with Shipping Dept.
03	07.02.2017	AVINASH V 	RM VAIRAVAN 	S DAKSHINAMOORTHY 	Type of wood for packing changed

1.0 SCOPE

- 1.1 This procedure gives minimum guidelines to be complied with for packing of Electrical, Electronics and Instrumentation panels. This packing shall be suitable for different handling operations and for the adverse conditions during transportation and during indoor / outdoor storage for periods more than one year.

2.0 WOOD SPECIFICATION FOR PACKING

- 2.1 Any seasoned wood or plywood as per relevant international standard
2.2 Sea worthy packing is envisaged for international shipments.

3.0 PACKING

- 3.1 Any seasoned wood or plywood shall be used .It shall be free from knots, etc. and any kind of decay caused by insects and fungus.
- 3.2 The required wood case for the equipment to be packed shall be made out of individual planks of single length and no joint is permissible. Using such planks, the required wood case for the panel shall be made,
- 3.3 Sufficient number horizontal, vertical and diagonal planks (dimension depending upon case size) shall be used for binding and strengthening. Runners have to be provided with metallic sling plates for handling.
- 3.4 Support planks are to be provided such that, no force is acting on the parts of equipment or its parts.
- 3.5 Panels above 1.5 metre shall be bolted at the bottom.
- 3.6 The equipments covered with a polythene sheet shall be kept inside the box, followed by coir, wooden bottoms, thermo coal, etc to prevent vibration effect during loading, transportation, etc.
- 3.7 On all sides of the inner case, black polythene sheet shall be nailed.
- 3.8 Loose items of the equipment, if any, shall be packed separately.
- 3.9 Delicate components likely to be damaged, example PCB – Electronic modules, instrument, etc are to be covered individually in anti-static bags and packed in cartons and filled with fillers like thermo coal, paper cuttings, etc.
- 3.10 Such cartons shall be packed with overall polythene rapping and packed in wooden cases. Mark prominently as "ELECTRONIC COMPONENTS".

4.0 **MARKING**

- 4.1 After completing the packing, Stencil marking, as per dispatch instructions and symbol marking as per Annexure – I shall be made. Please ensure the box is stenciled with "FRAGILE ITEM", "HANDLE WITH CARE"

5.0 **PACKING SLIP**

- 5.1 A copy of the packing slip, kept in a polythene cover shall be kept inside the box. Another copy of the packing slip, kept in a polythene cover shall be kept out side the box and covered with a metallic plate to the case.

6.0 **CAUTION**

Do not pack any other Mechanical items with this case.

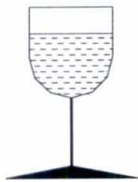
7.0 **GENERAL**

- 7.1 These packing procedures are the minimum requirements in addition to the standard instructions mentioned in the Purchase Order and Specification.

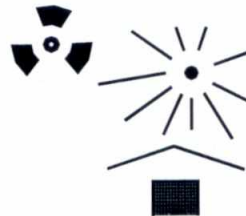
ANNEXURE - 1

TO

PROCEDURE NO:CI:QAC:PR:02/00 ; PR:03/00 ; PR:04/00



FRAGILE, HANDLE WITH CARE



PROTECT FROM HEAT AND RADIOACTIVE SOURCES



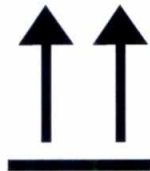
USE NO HOOKS

NOTE: The design of heavy goods packages cannot always resist top lifting by grabhooks.



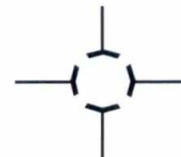
KEEP DRY

NOTE: Not all cases have waterproof internal liners: plywood used in the construction may not have a waterproof glueline.



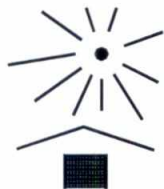
THIS WAY UP

NOTE: Certain designs of small cases make it difficult to distinguish top from bottom.



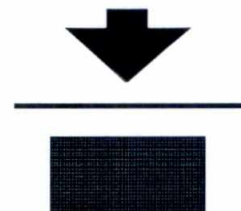
CENTRE OF GRAVITY

NOTE: This should be stencilled as a minimum on the two longest case sides (this information will normally be supplied by the manufacturer of the item(s) packed).



KEEP AWAY FROM HEAT

... kg max



STACKING LIMITATION



INTERNATIONAL "SLING HERE" SYMBOL

NOTE: The maximum load in kilograms should be marked above the arrow.



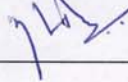
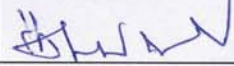
BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI - 620014

QA:CI:STD:QP:60
Rev: 01 Page: 1 of 3

CONTROLS AND INSTRUMENTATION/QA/FB

STANDARD QUALITY PLAN FOR

ERV CONTROLLER BOX

REV	DATE	PREPARED	REVIEWED	APPROVED	REVISION HISTORY
00	10/02/2004	Sd/-	Sd/-	Sd/-	Initial release.
01	23/06/2009	RM.VAIRAVAN 	N.SRIDHAR 	S.SOMASUNDARAM 	QP revised to modify with the practice followed in NTPC projects and inspection feedback.

	BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPPALLI - 620014	QUALITY PLAN FOR ERV CONTROLLER BOX	QA:CI:STD:QP:60 Rev: 01 Page: 2 of 3
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Sl. No	Component & Operation	Characteristics	Class	Type of Check	Quantum of check		Ref Doc. & Acceptance STD	Format of record	AGENCY			REMARKS
					M	B/ C			M	B	C	
A	FINISHED PRODUCT INSPECTION											
01	Routine tests	a. Visual (Name plate Details)	PHYS	Major	100%	30%	PO Spec.	TR	P	W	-	
		b. Dimension, including sheet steel thickness	MEAS	Major	100%	30%	PO Spec, Drg.	TR	P	W	-	
		c. Painting: Shade, thickness, finish	VISU	Major	100%	30%	PO Spec, Drg. IS 5, RAL	TR	P	W	-	
		d. Make, rating of components mounted.	PHYS	Major	100%	30%	PO Spec, Drg.	TR	P	W	-	
		e. Wiring: Ferruling & crimping	ELEC	Major	100%	30%	PO Spec, Drg.	TR	P	W	-	
		f. Availability of pressure switch, type and number of contacts	PHYS	Major	100%	30%	PO Spec, Drg.	TR	P	W	-	
		g. Functional check for pressure switch actuation for both increasing and decreasing pressure settings	ELEC	Critical	100%	100%	PO Spec, Drg.	TR	P	V	-	Verification of TC of pressure switch
		h. Insulation resistance test both before and after HV test	ELEC	Major	100%	100%	PO Spec, Drg.	TR	P	W	-	
		i. High voltage test for wiring at 1.5KV for 1 minute	ELEC	Major	100%	100%	PO Spec, Drg.	TR	P	W	-	
		j. Verification of accessories as per PO	PHYS	Major	100%	30%	PO Spec, Drg.	TR	P	W	-	
02	Type test											
		a. Enclosure Protection test for box	Major	ENVI	One of sample	One of sample	PO Spec. IS 13947	TC	V	V	-	

M- MANUFACTURER/ SUB-VENDOR; **B** - BHEL / TPI ; **C** - CUSTOMER / TPI
P - PERFORM; **W** - WITNESS **V** - VERIFICATION;



B.NOTES:

1.LEGENDS:

MECH	:	Mechanical	MEAS	:	Measurement
ELEC	:	Electrical	ENVI	:	Environmental
TR	:	Test Report	TC	:	Test certificate
VISU	:	Visual			

2. The vendor shall arrange all testing facilities at their works. Tests for which facilities are not available are to be carried out at recognized National Test Houses like ETDC/CIL/NPL/ERTL etc., at vendor cost.
3. Through Log Book / any other documents available at the vendor's works, it shall be possible to correlate the finished products with raw material and in process stage checks / inspection carried out.
4. All Measuring and Testing Instruments shall be periodically calibrated from recognized test houses & certificates made available during inspection for verification.

5. Test certificates for routine type tests are to be furnished by the vendor.
6. Type test certificate shall not be earlier than 5 years from the date of Purchase enquiry.
7. Vendor to give tentative inspection program in advance and confirm exact date two weeks in advance for arranging BHEL's inspection.
8. Packing shall be as per the "PACKING PROCEDURE" indicated in the specification.

C. REFERENCE STANDARDS:

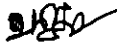
(For Indicated Standards Refer the Latest Version)

IS5	:	Colours for ready mixed paints and enamels
IS13947	:	General rules for low voltage switchgear (Degrees of enclosure protection offered by enclosures)

SQP60R1.DOC

**BHARAT HEAVY ELECTRICALS LIMITED / TIRUCHIRAPPALLI
CONTROLS AND INSTRUMENTATION/QA/FB**

**STANDARD QUALITY PLAN
FOR
ELECTRICAL PANEL ACCESSORIES**

REV	DATE	PREPARED	REVIEWED	APPROVED		REVISION HISTORY
				ENGG.	QUALITY	
00	16.06.97	-Sd-	-Sd-	-Sd-	-Sd-	Initial release
01	22.02.99	-Sd-	-Sd-	-Sd-	-Sd-	New Vendors Added
02	21.03.02	-Sd-	-Sd-	-Sd-	-Sd-	Dept. name changed & General revision-Based on Engg. discussion.
03	08.01.04	-Sd-	-Sd-	-Sd-	-Sd-	Revised to include the comments /Feedback of internal discussion
04	07.12.07	RM.VAIRAVAN 	N.SRIDHAR 	L.A.E.Fernandez 	S.SOMASUNDARAM 	Vendor list updated. Inputs considered are: • TCE approved List for Jojobera • NTPC approved list for BAP(Sipat). • NTPC approved list for Korba-III. • NTPC approved list for Barh STPP. • Feedbacks obtained during discussion

SL.NO	PRODUCT	APPROVED VENDORS
01	Air Circuit Breaker.	L&T / GEPC / SIEMENS / CONTROLS & SWITCHGEAR Co.LTD / SCHNEIDER-MERLIN GERIN ENERPACT
02	Miniature circuit breaker (MCB).	MDS / CROMPTON GREAVES / INDO - ASIAN / IM / LUPUS / SCHNEIDER ELECTRIC / SIEMENS / L&T – HAGER /INDOKOPP/COOPER BUSMANN /STANDARD
03	Moulded case circuit breaker (MCCB).	L&T / GEPC/ CROMPTON GREAVES / BCH / ABB / SIEMENS / CONTROLS & SWITCHGEAR Co.LTD/ SCHNEIDER ELECTRIC / ANDREW YULE /AREVA
04	Power contactors – AC.	L&T / SIEMENS / CONTROLS & SWITCHGEAR CONTACTORS LTD (TC) / SPRECHER & SCHUH / ANDREW YULE / BCH / GEPC / CROMPTON GREAVES / SCHNEIDER ELECTRIC
05	Power & Auxiliary Contactors – DC.	GEPC / BCH / CONTROLS & SWITCHGEAR CONTACTORS LTD(TC) / SIEMENS / SPRECHER & SCHUH / L&T / SCHNEIDER ELECTRIC/ANDREW YULE.
06	Auxiliary Contactors – AC.	L&T / SIEMENS / ABB / BCH / CONTROLS & SWITCHGEAR CONTACTORS LTD(TC) / CROMPTON GREAVES / GEPC/ SPRECHUR & SCHUH / SCHNEIDER ELECTRIC / ANDREW YULE.
07	Indicating lamp.	SIEMENS / VAISHNAO / GEPC / BCH / L&T - ESBEE / CANDS / TEKNIC / CONCORD / ESSEN / CONTROLS & SWITCHGEAR CONTACTORS LTD(TC)-RASS Series
08	Push Button.	SIEMENS / BCH / TEKNIC / CANDS / L&T - ESBEE / VAISHNAO / GEPC / CONTROLS & SWITCHGEAR CONTACTORS LTD(TC)-RASS Series / SCHNEIDER ELECTRIC/CONCORD.
09	Illuminated Push button	PARAMOUNT / BCH
10	Indicating Instruments.	AE / IMP / MECO / L&T-RISHAB / SIETEX / MASSIBUS/ALSTOM.
11	Switches (Power / Control).	KAYCEE / SIEMENS / L&T / SALZAR/ GEPC / CONTROLS & SWITCHGEAR Co. LTD / SCHNEIDER ELECTRIC / SWITRON (For Control switch only)

SL.NO	PRODUCT	APPROVED VENDORS
12	Thermal Overload Relays.	L&T / SIEMENS / CONTROLS & SWITCHGEAR CONTACTORS LTD (TC) / BCH / GEPC / SPRECHER & SCHUH / CROMPTON GREAVES / SCHNEIDER ELECTRIC/ ANDREW YULE.
13	Protective Relays(Electromechanical).	AREVA / EASUN REYROLLE / ABB / SEG & CONTROLS / SIEMENS.
14	Protective Relays(Microprocessor).	AREVA / ABB / L&T
14	Timers - Electronic.	SIEMENS / ABB / CONTROLS & SWITCHGEAR CONTACTORS LTD((TC) / GEPC / OMRON / SPRECHER & SCHUH / SELECTRON. / BCH
15	Timers - Electro – Pneumatic.	BCH / CONTROLS & SWITCHGEAR CONTACTORS LTD(TC)/ SPRECHER & SCHUH
16	Timers - Synchronous.	L&T - G I C.
17	Annunciators.	IIC / L&T / PROCON / ADVANI OERLIKON / OMRON / PIRI / PECON / SIEMENS/MINILEC
18	Current & Potential transformers.	AE / KAPPA / INDCOIL / PRAYOG / CONTROLS & SWITCHGEAR CONTACTORS LTD(TC) / SIEMENS / APPOLO / PRAGATI / PRECISE / JYOTI / SILKAANS/G&M(For PT only) .
19	Control supply transformers.	AE / KAPPA / INDCOIL / SOUTHERN ELECTRIC / SIEMENS / APPOLO / CONTROLS & SWITCHGEAR / PRECISE / LOGICSTAT/PRAGATI/PRAYOG
20	Terminal block - screw type (terminals & fasteners shall be brass with nickel cadmium plated).	ESSEN / ELMEX (THERMO –PLASTIC TYPE) / TOSHA / ASIA ELECTRIC (IEC MAKE) / CONNECT WELL / TECHNOPLAST / VEECON / PHOENIX/WAGO
21	Terminal Block – Cage Clamp type.	WAGO / PHOENIX / ELMEX
22	Fuse Carriers.	SIEMENS / L&T / S&S / CROMPTON GREAVES / CONTROLS & SWITCHGEAR Co. LTD / GEPC / COOPER BUSSMAN.
23	Fuse Links/Neutral Links.	SIEMENS / L&T / CROMPTON GREAVES / CONTROLS & SWITCHGEAR Co.LTD/ GEPC / CANDS / COOPER BUSSMAN.

SL.NO	PRODUCT	APPROVED VENDORS
24	Panel Wires	BIS APPROVED
25	Cable Glands – (weather proof).	COMET / POWER ENGG / SUNIL & CO / SMI / BRACCO / ARUP ENGG. WORKS / QPIE / GLANDMECH / CONTROLS & SWITCHGEAR Co. LTD / QUALITY PRECISION
26	Ferrules	MICROSIGN/MAY FAIR/OESER
27	Lugs.	DOWELL / 3D / DIVYA JYOTHI / CHETNA / JAINSONS
28	Space Heater.	SOPHIA / CANDS / CROMPTON GREAVES / PYRO SYSTEM / VELCO / CONTROLS & SWITCHGEAR Co.LTD.
29	15/5 A Power Supply Switch With Plug & Socket (Metal Clad Type With Spring Loaded Cap).	CROMPTON GREAVES/ AJMERA / BCH / BEST & CROMPTON./GEWIS INDIA
30	Cubicle Illumination Lamp.	PHILIPS / BAJAJ / CROMPTON GREAVES / MYSORE LAMPS / HMT.
31	Door Switch.	ESSEN / IEC.
32	Cooling Fan.	RALLI-WOLF / KHAITAN / USHA.
33	Interposing Relay (Low Burden).	JYOTHI / OMRON / ABIL / ABB / SIEMENS / GEPC / OEN / L&T/OWN MAKES OF APPROVED PLC VENDORS.
34	Cable Glands - Flame Proof.	BALIGA / SUDHIR / CEAG / PROMPT / COMET
35	Indicating Lamp – LED.	SRISHYLA / TEKNIC / PARAMOUNT / BINAY / KWALITY / HEWLETT PACKARD
36	Motor Protection Circuit Breaker	L&T / GEPC / SIEMENS / SCHNEIDER ELELCTRIC / SPRECHER & SCHUH .
37	Cable Dressing Material.	MICROSIGN.
38	Wire Duct.	SALZAR.

SL.NO	PRODUCT	APPROVED VENDORS
39	Electrical Transducer	ABB / AE / SOUTHERN TRANSDUCER/ELSTER/RISHAB.
40	Thermostat	APT / TEMPTROL / VIKAS ELECTRIC / AI / RENUTROL / ANCO
41`	Trivector Meter	ALSTOM / BHEL/AREVA/IMP

		PURCHASE / MM / BOI ENQUIRY DEVIATION	
429-024		PAGE 1 OF 1	
SCHEDULE OF DEVIATION TO BOI ENQUIRY NO:		1702000436	DATE
DESCRIPTION	Electromatic Relief Valve (ERV) Controller Box for Coal Fired Thermal Power Plant / Koderma & Muzaffarpur projects		
SPECIFICATION	TCI/250		
Drawing No	3-97-577-09562/07, 3-97-577-09565/04, 4-97-577-10225/02 & 4-97-577-10226/03		
QUALITY PLAN	QA:CI: STD: QP: 34 REV 04 & QA:CI:STD:QP:60 REV 01		
PACKING PROCEDURE	QA:CI:STD:PR:02 REV 03		
DOCUMENT REFERENCE	BHEL ENQ. CALLED FOR	FIRM'S ALTERNATIVE OFFER	
CERTIFIED THAT OTHER THAN THE ABOVE DEVIATIONS, WE ARE ACCEPTING ALL THE OTHER SPECIFICATIONS AND REQUIREMENTS IN FULL TO YOUR ENQUIRY.			
STATION:			
DATE:		SIGNATURE OF FIRM'S REPRESENTATIVE	FIRM SEAL
NOTE 1. Deviations should be taken only in the extreme case. 2. If necessary, use additional sheets with page control number.			

/ On Bidder's office letter pad /

Self-Declaration

Enquiry No.	
Enquiry Date	

In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt.04.06.2020 issued by DPIIT,

I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (.....%) defined in the above government notification for the goods against above mentioned enquiry Number.

Details of location at which local value addition will be made is as follows:

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be considered as breach of Integrity and liable for action.

For Company Name:

Seal:

Signature:

Date:

Place:

(Please fill all the yellow color field)

Certificate by Chartered Accountant on letter head

This is to Certify that M/s
 (hereinafter referred to as 'company') having its registered office at
 is registered under MSMED Act 2006,
 (Entrepreneur Memorandum No (Part—II) dtd:
 Category: (micro/small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006;
 Rs. Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
 Rs. Lacs

(Strike off whichever is not applicable)

The above investment of Rs. Lacs is within permissible limit of Rs. Lacs for Micro / Small **(Strike off which is not applicable)** Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro/ Small) **(Strike off which is not applicable)** and the date of graduation of such enterprise from its original category is
 (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11,2013 by Ministry of MSME.

Date

(Signature)

Name -

Membership number -

Seal of Chartered Accountant