



BHARAT HEAVY ELECTRICALS LIMITED
HEEP HARIDWAR INDIA-PIN 249403
FAX NO: 0091 1334 226462
PHONE NO: 0091 1334 284658, 4593

Eng. No. : T/T206/2016/0029W/1

M/s.....

Sub: BHEL-HEEP/OPEN-TENDER (Turbine Component) / 2017

Dear Sir,

The Heavy Electricals Equipment Plant (HEEP) located in Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators and so on.

Sealed tenders with the **Tender No.** and **opening date** clearly super scribed on the cover are invited from the manufacturers (registered as well as unregistered) for the supply of the following items :-

TENDER NO. : T/T206/2017/0029W/1				
SL. NO.	ITEM CODE	ITEM DESCRIPTION	QTY (NO)	DELIVERY SCHEDULE
1	W90311604030	DRG: 01160456000 REV: 01 FINISHED MACHINED JOURNAL BEARING OF SIZE D250X180. AS PER CBOM 01160456000 AND DRAWINGS / STANDARDS OF 01160456000.	02	01 – 31/10/2017 01 – 30/11/2017
2	W90311703089	DRG: 01170356000 REV: 00 FINISH MACHINED COMBINED JOURNAL AND THRUST BEARING OF SIZE D380X300. SUPPLY AS PER CBOM AND DRAWING NO. 01170356000.	02	01 – 31/10/2017 01 – 30/11/2017
3	W90311818056	DRG: 01181807000 REV: 01 FINISHED MACHINED JOURNAL BEARING D530X475 AS PER CBOM 01181807000. APPLY SUITABLE RUST PREVENTIVE AND SUPPLY IN SEA WORTHY PACKAGE.	02	01 – 31/10/2017 01 – 30/11/2017
4	W90311836011	DRG: 01183658000 REV: 01 FINISHED MACHINED JOURNAL BEARING OF SIZE D530X530 AS PER CBOM 01183658000 AND DRAWINGS / STANDARDS OF 01183658000	03	01 – 31/09/2017 01 – 31/10/2017 01 – 30/11/2017
5	W90311818048	DRG: 01181856000 REV: 01 FINISH MACHINED JOURNAL BEARING D475X425 AS PER CBOM 01181856000. APPLY SUITABLE RUST PREVENTIVE AND SUPPLY IN SEA WORTHY PACKAGE.	02	01 – 31/10/2017 01 – 30/11/2017

SPECIAL INSTRUCTIONS:

1. **BHEL STANDARD PAYMENT TERM i.e. “PAYMENT AFTER RECEIPT AND ACCEPTANCE OF MATERIAL/ITEM AT HEEP, BHEL-STORE” AS PER GENERAL INSTRUCTION AND STANDARD TERMS & CONDITION (GISTC) SHALL BE APPLICABLE.**
2. **LOADING ON ACCOUNT OF DEVIATION IN BHEL STANDARD PAYMENT TERMS SHALL BE DONE AS PER EXTANT RULES OF BHEL HARIDWAR**
3. **THE QUOTATION SHALL BE VALID FOR A MINIMUM PERIOD OF 120 DAYS, EFFECTIVE FROM THE DATE OF TENDER OPENING.**
4. **VENDOR TO CONFIRM THAT THEIR QUOTED RATES ARE NOT MORE THAN THOSE QUOTED FOR ANY OTHER CUSTOMER INCLUDING OTHER BHEL UNITS.**
5. **STANDARD LD CLAUSE i.e “ @0.5% OF TOTAL ORDER VALUE PER WEEK OF DELAY OR PART THEREOF SUBJECT TO MAXIMUM 10% OF PO VALUE AS PER GENERAL INSTRUCTION AND STANDARD TERMS & CONDITION (GISTC) SHALL BE APPLICABLE. IF YOU DO NOT CONFIRM THIS IN YOUR OFFER, THEN IT SHALL BE PRESUMED TO BE ACCEPTABLE.**

IF THE VENDOR DOES NOT CONFIRM ANY OF THE ABOVE SPECIAL INSTRUCTIONS, THEN THE SAME SHALL BE PRESUMED TO BE ACCEPTABLE/CONFIRMED.

- VENDOR SHOULD QUOTE BEST POSSIBLE DELIVERY IN OFFER. DELIVERY IS NOT SACROSANCT.
- THE TOTAL QUANTITY MAY UNDERGO CHANGE AT THE TIME OF ORDERING.
- IN CASE OF ORDERING AGAINST THE TENDER, VENDOR SHOULD SUBMIT THEIR INVOICES AGAINST GOODS AND SERVICES IMMEDIATELY AFTER SUPPLY OF GOODS & SERVICES BUT NOT LATER THAN 30 DAYS FROM THE INVOICE DATE. IN CASE OF DELAY, CONSEQUENTIAL LOSSES LIKE LOSS OF INPUT CREDIT AND NON-AVAILABILITY OF CONCESSIONAL FORMS ETC. SHALL BE TO THE VENDOR ACCOUNT.

The tender documents can be downloaded from our web site www.bhel.com or www.bhelhwr.co.in or www.tenders.gov.in.

After downloading the tender documents from web site, while submitting the tender as detailed in “Instruction to Bidders”, intending vendors must submit **Tender Fee of Rs. 2,000/- (Rupees two thousand only)** in the form of Pay Order / Demand Draft (drawn in favour of ‘BHEL HARIDWAR’) only. It may be noted that if hard copy of any tender document is required, then the same may be collected against copy of Pay Order / Demand Draft of requisite tender fee (while original to be submitted with Part-I). **However, if no hard copy of any tender document is required from BHEL, no tender fee is required to be submitted.**

Vendors must also remit the requisite **EMD (Earnest Money Deposit) of Rs. 2,00,000/- (Rupees two lakh only)** in the form of Cash (as permissible under Income Tax Act – cash to be deposited in Cash section in BHEL and receipt of the same to be enclosed) / Pay Order / Demand draft (drawn in favour of ‘BHEL HARIDWAR’). In case of foreign bidders e-payment may also be accepted as EMD. **If EMD is not submitted along with the offer (Part-I) then the offer may be out rightly rejected.**

HEEP BHEL Haridwar PMD (Product Material Directory) approved vendors having vendor code M06125, M70051, M72420, M79082, M79104, M91018, M91020 & N16084 are exempted for submission of requisite EMD against this tender enquiry.

Please submit **separate drafts** for EMD and tender fee in an envelope super-scribed with bold letters “EMD & Tender Fee” to be submitted with Part-I.

As per notification reference no. NSIC/HO/GP/15(4)/2013-14 dated 07.07.2013 Micro & Small Enterprises (MSEs) are not required to submit EMD & Tender fees. A certificate issued from competent authority shall be submitted in support of Micro & Small Enterprises (MSEs) (Annexure - 1)

Central / State – PSUs / Government departments are exempted from submission of EMD subject to approval by BHEL management.

BHEL will forfeit the EMD if, the successful bidder / vendor refuses to honor the order after award of the same on him and / or withdraws his bid and / or unilaterally changes the offer and / or any of its terms & conditions within the validity period.

Tenders will be received in Tender Box kept in Tender Room and should be addressed to:

**THE HEAD OF MATERIAL MANAGEMENT,
Heavy Electrical Equipment Plant,
Bharat Heavy Electricals Limited,
HARIDWAR-249403 (Uttarakhand), INDIA.**

The date for opening of tender shall be 19.06.2017. Tenders will be received up to 1.45 P.M. on 19.06.2017 and opened on the same day at 2.00 P.M. in the Tender Room. **Please note that tender received after due date & time (1.45PM on 19.06.2017) will not be REPEAT will not be opened.** BHEL will not be responsible for any type of postal / courier delay.

Bids shall be opened at 2 PM on the due date in the presence of authorized representative of the bidders who may like to be present. The authorized representative should bring authority letter from their parent company (Manufacturer) for the specific tender no. attending the bid opening.

Amendments/Corrigendum, if any, will be hosted only on the websites mentioned above. Other terms and conditions will be as per tender documents.

Unregistered vendors may please visit our website www.bhel.com for downloading Supplier Registration Form (SRF).

BHEL will not be responsible for any type of postal delay / incomplete information from vendor.

Please submit your offer only for the above requirement subject to our **GENERAL INSTRUCTIONS AND STANDARD TERMS & CONDITIONS (GISTC)**. Please visit our site www.bhelhwr.co.in for General Instructions and Standard Terms & Conditions (GISTC) for Tender Enquiries. **All the bidders/vendors must ensure compliance of these GISTC.** GISTC can also be referred by login to B2B Portal for Registered Vendors.

IN CASE YOU ARE NOT MAKING AN OFFER AGAINST THIS ENQUIRY, THEN PLEASE ARRANGE TO SEND A LETTER OF REGRET.

KINDLY READ “INSTRUCTIONS TO BIDDERS”. QUOTATION NOT IN ACCORDANCE WITH THE INSTRUCTIONS ARE LIABLE TO BE DISQUALIFIED AND IGNORED.

1.0 DEFINITION

Registered Vendors - Are those who are registered with BHEL, Haridwar for Megawatt rating/ Size/ Weight of tendered components in respective steel grade or machining of such components.

Un-registered Vendors - Are those who are not registered with BHEL, Haridwar for Megawatt rating/ Size/ Weight of tendered components in respective steel grade or machining of such components.

2.0 TECHNICAL QUALIFICATION

Enclosed format – **Annexure- 2** (Pre-Qualifying Requirements & Technical Requirement) to be submitted. **It is the mandatory requirement. Offer of Vendors not meeting these requirements may not be considered.**

3.0 ESSENTIAL INSTRUCTIONS

1. Un-registered vendors may be approved by BHEL, if found suitable, on the basis of data furnished by them in Supplier Registration Form (SRF) for Foreign Vendors or Indigenous Vendors (as applicable).
2. BHEL team may visit the vendor(s) works for verification of capability and capacity claimed in tender documents/offer(s).
3. The tenders shall be submitted in **two parts** in separate envelopes as described below on or before the due date. Vendor Registration Form shall be submitted by unregistered vendors only.

i. Part I - Envelope I

A. Tender Fee & EMD (Earnest Money Deposit) enclosed in sub-envelope (a)

Or

Valid certificate/Document towards exemption of Tender fee and/or EMD (applicable for Micro and small Enterprises (Annexure -1), Central / State – PSUs / Government departments, PMD vendors etc.)

B. Pre-Qualifying Requirements (PQR) – Annex. 2 enclosed in sub-envelope (b)

C. Vendor Registration Form (Kindly follow the link and follow instructions: <http://supplier.bhel.in/>)

D. NDA (Non-Disclosure Agreement) – Annex. 4 enclosed in sub-envelope (d)

E. Envelop II - Techno -Commercial Bid – It should be the copy of Price Bid without the price part

F. Annexure-3 for compliance of technical/ commercial terms and conditions. It should be completely filled.

ii. Part II - Envelop III - Price Bid

Note: All the individual envelopes should indicate Tender no. and date of opening of Part-I. All three envelopes [Envelope I (containing sub-envelopes a, b, c & d), Envelope II & Envelope III] to be put in a single covering envelope indicating tender no., due date and the name of vendor (with address, e- mail id & contact details). Offer should be complete in all respect (i.e. Part-I & Part-II).

4. Part-I will be opened on the date and time specified in the tender notice in the presence of those vendors who wish to attend.
5. Part – II (Price Bids) along with supplementary price bids, if necessary, will be opened at a later date of only those bidders who successfully qualify PQRs and whose techno-commercial bid will found to be acceptable.
6. Currency exchange rate will be applicable on the date of opening of Part-I for evaluation purpose.
7. Depending upon the delivery suitability, BHEL reserves the right to split order on more than one vendor.

8. Foreign and Indigenous bidders against open tender will necessarily have to obtain class – III DSCs. Procedure for application available on www.bhel.com.
9. **Please submit your offer only for the above requirement subject to our GENERAL INSTRUCTIONS AND STANDARD TERMS & CONDITIONS (GISTC). Please visit our site www.bhelhwr.co.in for General Instructions and Standard Terms & Conditions (GISTC) for Tender Enquiries. All the bidders/vendors must ensure compliance of these GISTC. GISTC can also be referred by login to B2B Portal for Registered Vendors.**

REFERENCES:

Annexure-2 (PQR & Technical Requirement)

Annexure-3 (Compliance Sheet)

Annexure- 4 (Format for CA Certificate - Applicable for MSE vendors)

Annexure-5 (NDA)

ANNEXURE 1

TENDER NO. : T/T206/2017/0029W/1

SL. NO.	ITEM CODE	ITEM DESCRIPTION	QTY (NO)	DELIVERY SCHEDULE
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3	W90311818056	DRG: 01181807000 REV: 01 FINISHED MACHINED JOURNAL BEARING D530X475 AS PER CBOM 01181807000. APPLY SUITABLE RUST PREVENTIVE AND SUPPLY IN SEA WORTHY PACKAGE.	02	01 – 31/10/2017 01 – 30/11/2017
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 HARIDWAR	Mandatory Technical Pre-Qualification Requirements (PQR) for Procurement of Finish Component / Assembly	PQR-Journal Brg.& Thrust Bearing Rev. No. 00 Page 1 of 1
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**PQR for Procurement of Finish Machined Journal Bearing and Journal & Thrust Bearing
used in Super-Critical Steam Turbine against Indent no. 20170029**

Date:-03/05/2017

Following are the mandatory pre-qualification requirements for finish machined journal bearing and Radial Thrust Bearing. Offers of vendor not meeting the requirements given below shall not be considered.

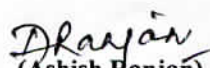
- 1) Vendor must have in-house centrifugal babbitting and machining facilities to manufacture enquiry items. Details of in house centrifugal babbitting and machining facilities are to be submitted. **Outsourcing of babbitting and machining is not permitted.**
- 2) The vendor should have experience of manufacturing and supplying fully finish machined babbitted bearing to Power Equipment Manufacturer (Turbine/Generator/Exciter) **for 100MW and above rating. Vendor must have supplied at least 5 nos. of Bearings of nominal diameter (inner diameter) ≥ 250 mm in the last 7 years for speed of 3000/3600 rpm (on the date of opening of tender).**

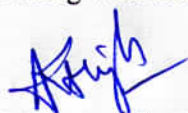
In support of the above, the vendor has to furnish details of five finish machined babbitted bearing in the format below:

Sl. No.	Inner dia. Bearing	Weight	Name and Address of customer	Year of supply
01				
02				
03				
04				
05				

Vendor has to submit documentary evidence in support of above experience like Purchase Order / Dispatch note etc. At least three test certificates from above list are to be submitted. The correlation of test certificates with purchase order referred in support of experience has to be ensured by vendor.

- 3) Vendor to confirm that delivery of bearing shall be as per BHEL Technical Delivery Conditions document no. **TDC-F-11604 / 11703 / 11818 / 11836-** and all the requirements mentioned in TDC should be met in totality. Vendor to submit signed & Stamped copy of TDC along with offer.
- 4) Vendor to submit Supplier/Vendors declaration (**TDC-F- TDC-F-11604 / 11703 / 11818 / 11836-** Page 12 of 12) against each material code along with offer.


(Ashish Ranjan)
(Sr. Manager/MTE)


(Alok Kumar Singh)
(Manager, STE-TE)


(Dinesh Gond)
Sr. Engineer, STE-TE)

 HARIDWAR	Technical Delivery Condition for Procurement of Fully Assembled Supercritical Bearings	TDC-F-11604 /11703 /11818/11836 Rev. No. 00 Page 1 of 12
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**Fully Assembled Finish Machined Babbitted Journal Bearing & Radial Thrust Bearing
for Super Critical Steam Turbine**

Material Code: W90311604030, W90311703089, W90311818056, W90311836011, W90311818048

“Journal Bearing & Radial Thrust Bearing for supercritical steam turbine in completely finish machined & assembled condition is to be supplied as per details and technical requirements furnished in assembly drawing no. and its associated sub-assembly drawings as per CBOM.

Table-1

Sr. No.	Material code	Description	Drawing no.
1	W90311604030	Finish Machined Journal Bearing Dia. 250 x 180	01160456000
2	W90311703089	Finish Machined Radial Thrust Bearing Dia. 380x300	01170356000
3	W90311818056	Finish Machined Journal Bearing Dia. 530X475	01181807000
4	W90311836011	Finish Machined Journal Bearing Dia. 530 x 530	01183658000
5	W90311818048	Finish Machined Journal Bearing Dia. 475X425	01181856000

I. Scope of work / supply:

The supplier to confirm to adhere the following points while submitting the offer:

- 1) Scope of supply shall be as per BHEL drawing no. mentioned against each material code in Table-1, along with all components including materials as per respective Combined Bill of material (CBOM). Scope includes procurement of materials, forgings, all stage operation including pre-machining, babbitting, final machining of component and assembly of bearing as per drawing requirements. Supplier to take note of it & confirm the final supply of items as per respective BHEL CBOM, Drawings, Specification and Technical requirements in totality.
- 2) Machining should be carried out taking care of every technical requirements of each item (drawings & standards) covered in CBOM.
- 3) All tools and technological items required for the manufacture of the Journal Bearing Assembly are to be arranged by the vendor.
- 4) One set of drawings and standards shall be furnished to the supplier for submitting the offer. List of drawings / standards is enclosed at Annexure-I. All dimensions in drawings are in millimeter (mm). *Drawings and documents furnished to supplier*

Supplier Name:

Sign & Seal of Supplier:



HARIDWAR

**Technical Delivery Condition for Procurement
of Fully Assembled Supercritical Bearings**

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should be treated as BHEL property. Strict confidentiality is to be maintained and under no circumstances these documents or copy of these should be transferred to the third party without express permission of BHEL. On completion of supply, all documents must be returned to BHEL.

- 5) Supplier should confirm categorically that they shall meet all technical requirements listed in the drawings and specifications. Deviation if any should be referred to BHEL for concurrence before placement of purchase order.
- 6) Supplier must ensure all technical requirements indicated in the drawings / standards including :
 - (a) Surface finish (Ra value indicated in microns).
 - (b) Sizes and tolerances.
 - (c) Geometrical accuracies e.g. run-outs, concentricity, parallelity, perpendicularity etc.
 - (d) Dimensions shown within  on drawings are Critical to Quality (CTQ).
- 7) Supplier to ensure following technological necessity / process control during manufacturing to achieve controlled distortion and dimensional accuracy:-
 - (a) Identification of each and every item as per drawing.
 - (b) Use of technological supports / fixtures.
 - (c) Proper handling during machining, shifting, assembly and transportation.
- 8) Drawing & documents specified in the Annexure-I may undergo minor revisions, however, quantum of machining will remain same. If any drawing undergoes revision it shall be communicated to supplier at the earliest.
- 9) Drawings given in Annexure-I are of major items. For entire list of items and quantity thereof, refer respective CBOM No.
- 10) Complete set of detail drawings and standards will be furnished to supplier along with the Purchase Order. Supplier may seek any other cross referred document, if required.
- 11) Vendor to comply the BHEL manufacturing standard HW0652098 for manufacturing of the bearing shell.
- 12) The supplier shall furnish details of the machining facilities to be employed for machining of the bearing in-house or at their sub-contractor's works and get approval from BHEL.

Supplier Name:

Sign & Seal of Supplier:

 HARIDWAR	Technical Delivery Condition for Procurement of Fully Assembled Supercritical Bearings	TDC-F-11604 /11703 /11818/11836 Rev. No. 00 Page 3 of 12
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- 13) Vendor to provide manufacturing plan indicating activities for manufacturing of Bearing shell , with description of facilities (like make, model, specification , accuracy etc.) employed to carry out the activities.
- 14) BHEL may be allowed to visit vendor's/sub-contractors manufacturing facilities if necessary.

II. Material:

- 1) Material of items / components shall be as per BHEL specification given in respective CBOM No. Vendor to confirm with offer. Any deviation in material from CBOM shall be informed at the time of offer for BHEL acceptance only. **BHEL may accept or reject the proposed alternate material.**
- 2) Vendor to note that **'No Deviation in material will be allowed after placement of order'**.
- 3) **For Indian Vendors:** Forging Shell & Bearing Liner as per BHEL specification HW19361 & AA19332 and casting as per BHEL specification HW19793 are to be procured from BHEL approved sources as per the list provided with enquiry. Refer Annexure III.

For Foreign Vendors: Forging & Casting shall be as per BHEL drawing and specification.
- 4) List of materials specified in the CBOM and their equivalent National / International material grades with their standards has been given in Annexure II. Vendor to submit signed and stamped Annexure II with offer.

In case vendor wishes to use material other than the specified material in Annexure II, vendor to submit proposed material in Annexure II with a copy of their material specification (English language only) along with the offer for approval.

BHEL reserves the right to accept or reject it.
- 5) These finalized grades shall be part of Quality Plan / Purchase Order.

III. Babbitting:

The vendor should have in-house babbitting facility. Babbitting of the Bearing shells shall be done by Centrifugal Casting process. Vendor shall submit details of in house

Supplier Name:

Sign & Seal of Supplier:

 HARIDWAR	Technical Delivery Condition for Procurement of Fully Assembled Supercritical Bearings	TDC-F-11604 /11703 /11818/11836 Rev. No. 00 Page 4 of 12
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babbling facilities covering details like size and weight of bearing which can be babbling by vendor, furnaces & oven details to manufacture enquiry items.

Babbitt material as per specification HW12897 shall be used. Source of babbitt material and at least one test certificate of babbitt material to be submitted.

Inspection and acceptance of babbling bearing shall be done as per BHEL specification HW0850195.

IV. Quality Requirements:

- 1) All dimensions and technical requirements as per BHEL drawings are to be complied with and recorded by vendor's quality control (QC) and to be submitted to BHEL for acceptance as per agreed stages.
- 2) Quality Plan to be submitted to BHEL along with offer for approval. BHEL reserves the right to identify customer hold points (CHPs) in Quality Plan which will be witnessed by BHEL / BHEL nominated agency and beyond which work will not proceed without clearance from BHEL.
- 3) No flaws like cracks etc. should open up during machining. However, if any flaw opens up during machining, supplier shall immediately intimate to BHEL, the detail and location of flaw and corrective action proposed. Further machining will be carried out only after approval by BHEL.
- 4) Any non-conformity to any dimension or technical requirement is to be informed to BHEL on document duly certified by vendors QC for the approval of BHEL. Vendor shall proceed with the work only after decision given by BHEL on the non-conformity. BHEL reserves the right for rejection of non-conformity and will be final and binding on vendor.

V. Procedure Qualification:

NDT (Non Destructive Testing) shall be carried out by personnel qualified by ASNT / ISNT or equivalent.

Supplier Name:

Sign & Seal of Supplier:

 HARIDWAR	Technical Delivery Condition for Procurement of Fully Assembled Supercritical Bearings	TDC-F-11604 /11703 /11818/11836 Rev. No. 00 Page 5 of 12
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VI. Inspection at Vendors Work:

- 1) All the stage inspections should be followed as per Quality Plan / Assembly Requirements and its record should be kept by the supplier.
- 2) After finish machining detailed dimension report along with filled up log sheets should be submitted to BHEL for final clearance.
- 3) Inspection of the job at supplier's works shall be carried out by BHEL / Agency Authorized by BHEL for which adequate prior notice (minimum 4 weeks) shall be given by the supplier.

VII. Painting & conservation:

All surfaces must be protected against rust / corrosion by steam washable rust preventive such as Tectyle 506 manufactured by M/s Volvoline, Germany or equivalent suitable for at least six months. Paint is not allowed on any surface.

VIII. Packing:

Finish machined completely assembled "Journal Bearing / Combined Journal & Thrust Bearing" shall be suitably packed in Sea-worthy packing. Packing should be suitable to protect against any damage to all surfaces during handling and transportation.

IX. Test Certificates:

Three hard copies and one soft copy on CD of all test certificates like Material test certificate, NDT (Non Destructive Test) reports, Dimensional reports, Painting report etc. are to be submitted to BHEL.

Supplier Name:

Sign & Seal of Supplier:

 HARIDWAR	Technical Delivery Condition for Procurement of Fully Assembled Supercritical Bearings	TDC-F-11604 /11703 /11818/11836 Rev. No. 00 Page 6 of 12
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ANNEXURE-I

Sl.no	Material code	Description w.r.t. Scope of Supply & Respective Drawing Numbers
1	W90311604030	Journal Bearing Dia. 250 x 180 Scope of supply – CBOM No. 01160456000 Drawings – 01160456100, 21160456999, 31181456104, 21160456013, 41160401021, 31160401022, 31160401025, 41160456025, 41160456027 Standard - HW19361, HW12897, AA10622, HW10683, HW7123196, ST24002, AA19332, AA10119, AA10740, HW10673, AA7123123, ST01011, ST05023, Acceptance Standard- HW0980802 & HW0850195. Quality Plan & Manufacturing Processes to be Approved By BHEL
2	W90311703089	Radial Thrust Bearing Dia. 380 x 300 Scope of supply – CBOM No. 01170356000 Drawings – 01170356100, 01170356901, 21170356101, 41170356102, 41170301008, 31170301019, 31170301090, 31170301091, 41170301092, 31170301030, 31170301031, 31170301040, 31170301041, 31170301050, 31170301051, 41170356006, 31170301002, 41170301003, 31170301004, 41170301102, 11170356200, 21170356201 Standard – HW19793, AA10622, AA10218, AA12101, HW10181, AA7123123, HW7123196, AA10208, AA10740, AA19361, HW12897, AA10212, AA7123125, ST24001, ST24002, ST42005, ST01031, ST03002, ST05004 Acceptance Standard- HW0980802 & HW0850195. Quality Plan & Manufacturing Processes to be Approved By BHEL
3	W90311818056	Journal Bearing Dia. 530X475 Scope of supply – CBOM No. 01181807000 Drawings – 01181807100, 21181807999, 31181456104, 21181456106, 41181456107, 41181456108, 41181456114, 41181456118 Standard - HW19361, HW12897, AA10622, HW10683, HW7123196, ST24002, AA19332, AA10119, AA10740, HW10673 Acceptance Standard- HW0980802 & HW0850195. Quality Plan & Manufacturing Processes to be Approved By BHEL

Supplier Name:

Sign & Seal of Supplier:

Sl.no	Material code	Description w.r.t. Scope of Supply & Respective Drawing Numbers
4	W90311836011	Journal Bearing Dia. 530X530 Scope of supply – CBOM No. 01183658000 Drawings -01183658100, 21183658999, 31181456104, 21181456106, 41181456107, 41181456108, 41181456114, 41181456118 Standard - HW19361, HW12897, AA10622, HW10683, HW7123196, ST24002, AA19332, AA10119, AA10740, HW10673 Acceptance Standard- HW0980802 & HW0850195. Quality Plan & Manufacturing Processes to be Approved By BHEL
5	W90311818048	Journal Bearing Dia. 475 x 425 Scope of supply – CBOM No. 01181856000 Drawings – 01181856100, 21181456999, 31181456104, 21181456106, 41181456107, 41181456108, 41181456114, 41181456118, Standard – HW19361, HW12897, AA10622, HW10683, HW7123196, ST24002, AA19332, AA10119, AA10740, HW10673, ST05023, ST01011 Acceptance Standard- HW0980802 & HW0850195. Quality Plan & Manufacturing Processes to be Approved By BHEL

Supplier Name:

Sign & Seal of Supplier:

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ANNEXURE-II

Equivalent Material Grades:

Sr. No.	BHEL Material Specification & Description	Equivalent National / International Material Grades	Equivalent Proposed by vendor, if any.	Mandatory requirement for Equivalent material grades.
1	AA10622: Alloy Steel Bar	20CrMoVTiB410, DIN EN 10269-1999 Alternatively HW10673 (Material no. 1.7709) is also acceptable.		
2	AA19332: Carbon Steel Forging Class-3	IS:2004-1991 Gr:3 (30C8)		
3	HW12897: Tin Based antifriction bearing alloy	Babbitt as per HW12897 is only acceptable. Any other alternate is not acceptable.		
4	AA10740: Austenitic stainless steel sheets, plates and strips, solution annealed.	ASTM A240M TYPE 321/ JIS G4305-2005 Grade 321/ IS:6911Gr:X04Cr18Ni10T i/ EN10088-2 Gr X6CrNiTi18-10		
5	AA10119: Structural Steel Weldable Quality.	DIN EN10025 Gr S275J2G3/ IS 2062 Grade E250-BR		Plates above 12 mm are to be Normalized.
6	HW19361: Steel Forging For Bearing Liners / Shells	Item as per HW19361 is only acceptable. Any other alternate is not acceptable		
7	HW10683: Steel Bar (Material No.1.4923)	X22CrMoV12-1, EN10269		
8	HW10673: Heat resistant steel bars. (Material No.1.7709)	21CrMoV5-7, EN10269		
9	Copper (Cu) for ST24002			
10	Steel as per Property Class 8.8 for HW7123196	Screw, 8.8, ISO 4762		
11	Steel as per Property Class 12.9 for AA7123123	Screw, 12.9, ISO 4762 or IS2269		
12	HW19793: Nodular Graphite Iron Casting	Casting as per HW19793 is only acceptable. Any other alternate is not acceptable		

Supplier Name:

Sign & Seal of Supplier:

 HARIDWAR	Technical Delivery Condition for Procurement of Fully Assembled Supercritical Bearings	TDC-F-11604 /11703 /11818/11836 Rev. No. 00 Page 9 of 12
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Sr.No.	BHEL Material Specification & Description	Equivalent National / International Material Grades	Equivalent Proposed by vendor, if any.	Mandatory requirement for Equivalent material grades.
13	AA10218: Hot Rolled / Forged Carbon Steel Bar	11SMnPb30 / 40C8		
14	AA12101: Cold Rolled Brass Sheet	IS:410 / CuZn37		
15	HW10181: Carbon steel plates	S355J2G3, EN10025 Part-2		
16	AA10212: Cold drawn steel bars	IS2048 Type-B, *~C45+C		
17	Steel as per Property Class 8.8 for AA7123125	Screw, 8.8, DIN7984		
18	15Mo3	16Mo3		

Note: Item / Materials specified in CBOM and not covered in Annexure II if any, shall be as per BHEL Combined Bill of Material.

Supplier Name:

Sign & Seal of Supplier:

 HARIDWAR	Technical Delivery Condition for Procurement of Fully Assembled Supercritical Bearings	TDC-F-11604 /11703 /11818/11836 Rev. No. 00 Page 10 of 12
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ANNEXURE-III

BHEL APPROVED SOURCE FOR FORGINGS OF AA19332 & HW19361

- 1) Mackeill Ispat And Forgings Ltd.
- 2) Star Wire (India) Ltd.
- 3) Kisaan Steels (Pvt.) Ltd.
- 4) CHW Forge (P) Ltd.
- 5) Good Luck Engineering Co.
- 6) Ghaziabad Forgings Pvt Ltd.
- 7) R. D. Forge.
- 8) Bharat Heavy Electricals Ltd.
- 9) Vishnu Forge Industries Ltd.
- 10) Ring Forgings Pvt Ltd.
- 11) Ghaziabad Ispat Udyog Ltd.
- 12) Vikrant Forge Limited.
- 13) Bay-Forge Limited.

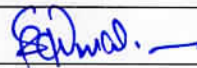
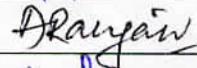
BHEL APPROVED SOURCE FOR CASTING OF HW19793

- 1) ISGEC Heavy Engineering Ltd.
- 2) Hindustan Udyog Ltd.
- 3) Uppal Ferrocast Pvt. Ltd.
- 4) Southern Alloy Foundries Pvt. Ltd.
- 5) R V Casting & Engineering.
- 6) Walchandnagar Industries Ltd.

Supplier Name:

Sign & Seal of Supplier:

RECORDS OF CHANGES					
Sl. No.	Para No. / Annexure No.	Doc. No. / Rev. No.	Reissue Rev. No.	Revision Date	Nature Of Change

TTX	Dilip Kumar		03.05.2017.
MTE	Ashish Ranjan		03.05.2017
STE	Dinesh Gond		03.05.2017
Department	Name	Signature	Date

Supplier Name:

Sign & Seal of Supplier:

 HARIDWAR	Technical Delivery Condition for Procurement of Fully Assembled Supercritical Bearings	TDC-F-11604 /11703 /11818/11836 Rev. No. 00 Page 12 of 12
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Suppliers / Vendors Declaration

We hereby confirm that item “.....”

Drawing no.....

Material code

CBOM.....

shall be supplied in finish machined condition as per BHEL drawing and material fulfilling all given Technical requirement & Specification as stated in drawing & Technical Delivery Condition (TDC-F-11604 /11703 /11818/11836) in totality.

Supplier Name:

Sign & Seal of Supplier:

MANUFACTURER'S NAME AND ADDRESS			QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM			QP NO.									
				REV										
		DRG. NO.	AS PER PO											
		SPEC.	AS PER PO											
		REV				Page 1 of 1								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
											M	B	N	
1	2	3		4	5	6	7	8	9	D	10			11

		LEGEND: ! RECORDS IDENTIFIED WITH ‘TICK’ SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE ‘P’ PERFORM ‘W’ WITNESS AND ‘V’ VERIFICATION ALL ‘W’ INDICATED IN COLUMN ‘N’ SHALL BE ‘CHP’ OF CUSTOMER	FOR CUSTOMER USE	
MANUFACTURER/SUBCONTRACTOR				APPROVED BY

ANNEXURE- 3**COMPLIANCE SHEET FOR TECHNICAL/COMMERCIAL TERMS AND CONDITIONS FOR TWO****PART TENDER****PLEASE FILL THIS ANNEXURE & ATTACH WITH YOUR TECHNO-COMMERCIAL BID.**

You are requested to kindly confirm /clarify the following:-

S.No.	Description	Your Confirmation
1.	Vendor to confirm that they meet each & every clause of our Specifications/Drawings.	
2.	If “No” to serial number 1, vendor to specify each deviated clause & submit in a separate sheet.	
3.	Vendor to list out on a separate sheet any activity which is outsourced. Please furnish details of out sourced vendor.	
4.	Validity: confirm that validity of the offer shall be 120 days from the date of tender opening	
5.	Confirm that un-priced part of price bid is enclosed with techno-commercial offer.	
6.	Confirm that prices have been quoted on C & F basis (For Foreign vendors)	
7.	Confirm that Loading Port has been mentioned.	
8.	Confirm that prices have been quoted on FOR BHEL Haridwar basis. (For Indigenous vendor)	
9.	Confirm that prices shall be firm and fixed throughout delivery period.	
10.	Confirm that preferably payment term shall be “100% payment after receipt and acceptance of material”.	
11.	LD Penalty shall be applicable as per GISTC.	
12.	Confirm that all test certificates / Guarantee certificates to be submitted as per BHEL specification. in TRIPLICATE along with dispatch documents	
13.	Right of acceptance – BHEL reserves the right to reject any or all quotations without assigning any reasons thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Vendors should be prepared to accept order for reduced quantities without any extra charges. Vendor should also be prepared for giving discount in case of increase in quantity.	
14.	Confirm specifically that material shall be supplied as per tender documents.	
15.	No grace period in delivery is acceptable. Please quote delivery accordingly.	
16.	Ink signed order acceptance shall be furnished within 15 days of order placement.	
17.	Confirm if there is Indian agency commission included in your price.	
18.	Confirm to furnish quality plan in the enclosed format for BHEL review & approval.	

18.	Quality Requirements a. For Indigenous vendors – Kindly submit detailed quality plan in the enclosed format only, along with offer for BHEL review and approval. Inspection shall be by BHEL nominated agency TUV as per finally BHEL approved QP. Loading shall be done as per GISTC. b. For Foreign Vendors - Kindly submit detailed quality plan in the enclosed format only, along with offer for BHEL review and approval. Inspection shall be by Third Party Inspection agency (LRS/TUV/BV) as per finally BHEL approved QP. Foreign vendors to either quote third party inspection charges separately in their offer or vendor to mention that third party inspection charges are included in the quoted prices of the offer. if vendor do not quote third party inspection charges or not mention that third party inspection charges are included in quoted prices, then it shall be presumed that third party inspection charges are included in the quoted prices of the offer. no further clarification shall be asked in this regard after opening of techno-commercial bid part-1. c. Scope of Inspection agency shall be - Witnessing of NDT (UT, DPT) of babbiting, visual & dimensional check (including colour contact feeler gauge tightness check) & review of remaining TCs as per ordering drawing/ spec/ CBOM.	
19.	Please confirm your acceptance for Reverse Auctioning of these items.	
20.	Please confirm your acceptance for Risk Purchase.	

NON-DISCLOSURE AND PROPRIETARY INFORMATION AGREEMENT

BETWEEN

_____(Name of the Vendor),, having its registered offices in _____(Address of Vendor), registered under the no. _____ of the Companies' register of _____(Name of Place and Country), capital stock of _____(Value), with a place of business in _____(Name of Place and Country) (hereinafter referred to as "_____(Name of Vendor)");

AND

Bharat Heavy Electricals Ltd a company incorporated under the Indian Companies Act 1956 having its registered offices at BHEL House, Siri Fort, New Delhi -110 049 and having one of its works at Heavy Electrical Equipment Plant, Ranipur, Haridwar-249403 (Uttarakhand), India registered under the No. 4281 of 1964-65 of the companies register of Delhi, capital stock of Rs 4895.2 million with a place of registered office in New Delhi (hereinafter referred to as “BHEL”) hereinafter also referred to individually as “the Party” or collectively as “the Parties”.

BACKGROUND

This Agreement sets forth the rights and obligations of the Parties with respect to the use, handling, protection and safeguarding of Proprietary Information that is disclosed by and between the Parties.

WHEREAS

A) the Parties wish to pursue exploratory discussions concerning a possible collaboration between them in relation to the Program defined in Exhibit 1;

B) during the ensuing discussions and negotiations it may occur that either Party discloses to the other technical, financial or business information of a proprietary or confidential nature, which the Parties intend to protect against, making it available, by any means to any third person, and other unauthorized use and/or further disclosure by the recipient, in accordance with the terms and conditions set forth herein;

NOW, THEREFORE, the Parties have agreed as follows:

1. The term “Proprietary Information” shall mean any information or data of whatsoever kind of a confidential or proprietary nature, including but not limited to, commercial information, know how and technical information in the form of designs, drawings, concepts, requirements, specifications, software, interfaces, components, processes, or the like, that have been or will be disclosed by either Party to the other pursuant to this Agreement, either in writing, orally or other form, which is designated as “Proprietary” or “Confidential” by the disclosing Party by means of formal declaration or an appropriate stamp, legend or any other written or orally notice .
2. Proprietary Information may be conveyed, without limitation, through any written or printed documents, samples, models, electronic form on disk, tape, other storage media or any other means of disclosing such Proprietary Information that either Party may elect to use during the life of this Agreement, but if an originating Party originally discloses information orally or visually, the receiving Party will protect such information as Proprietary Information to the extent that the originating Party :
 - identifies the Information as Proprietary at the time of original disclosure,
 - summarizes the Proprietary Information in writing .

Information stored in electronic form on disk, tape, other storage media will be adequately marked if a proprietary legend displays when the information originally runs on a computer system and when the information is printed from its data file.

Proprietary Information also includes any information which can be obtained by examination, testing or analysis of any hardware or material substance or any component part of such hardware or material substance provided by the Disclosing Party even though the requirements in Clause 1 for marking and designation have not been fulfilled.

3. Each Party, to the extent of its rights to do so, shall disclose to the other only the Proprietary Information which the disclosing Party deems appropriate to fulfil the objectives of this Agreement. The Parties hereby represent that the disclosure of Proprietary Information by and between themselves shall be made in compliance with, and subject to the laws and regulations of the Disclosing Party's country.
4. The receiving Party hereby agrees and covenants that, from the effective date of this Agreement until the expiry date as per article 11 and the following period as per article 12, the Proprietary Information that either Party receives from the other shall:
 - a) be protected and kept in strict confidence by the receiving Party which must use the same degree of care it uses to protect its own confidential information and in no case less than a reasonable care;
 - b) be only disclosed to and used by those persons within the receiving Party's organization or that of its parent or controlled companies who have a need to know and solely for the purposes specified in this Agreement, and be treated by such persons or entities with the same degree of care and subject to the same restrictions;
 - c) to procure that each third party to whom Proprietary Information is disclosed under this Agreement is made aware of the provisions of this Agreement prior to such disclosure to it and that each such third party is

bound by obligations of confidentiality which are no less onerous than those contained in this Agreement;

- d) neither be disclosed nor caused to be disclosed or made available, either directly or indirectly, to any third Party or persons other than those mentioned in subparagraph b) above or other persons upon which both of the contractual Parties shall agree in an amendment to this Agreement;
- e) not to copy, reproduce or reduce to writing any part of such Proprietary Information except as may be reasonably necessary for the purpose referred to in the Recitals of this Agreement

PROVIDED THAT the Receiving Party shall be entitled to make any disclosure required by court order or government or regulatory requirement of the Disclosing Party's Proprietary Information subject to notifying the Disclosing Party as soon as possible of such requirement

- 5. Any Proprietary Information and copies thereof disclosed by either Party to the other shall remain the property of the disclosing Party and shall be immediately returned or destroyed by the receiving Party upon request.
- 6. The receiving Party shall have no obligations or restrictions with respect to any Proprietary Information for which the receiving Party can prove that:
 - a) is in or which comes into the public domain otherwise than as a result of a breach of this Agreement by any person to whom a disclosure of Proprietary Information is made as permitted under this Agreement or of any other duty of confidentiality relating to the Proprietary Information of which the Receiving Party has knowledge; or
 - b) it has been in its possession without restriction at the time of the disclosure, as evidenced by written documentation in its files; or
 - c) it has been lawfully received from a third Party without breach of this Agreement; or

- d) it has been or is published without violation of this Agreement; or
 - e) it has been independently developed in good faith by employees of the receiving Party who did not have access to the Proprietary Information; or
 - f) it has not been properly declared, designated or confirmed as Proprietary or Confidential; or
 - g) the protection period has expired according to articles 11 and 12 of this Agreement.
7. With respect to any exchange of Proprietary Information which may occur as a result of this Agreement, it is expressly understood and agreed that the persons listed in Exhibit 2 shall, on behalf of the respective Parties, be the exclusive individuals authorized to receive from and transmit to the other Party Proprietary Information under this Agreement. Each Party may replace at any time its respective authorized individuals identified in such Exhibit 2, within its own organization. Any such new designation by a Party shall be made by written notice to the other at the address indicated in such Exhibit 2.
8. Any Proprietary Information which is identified as “Classified Information”, or whose export is subject to an export license, shall be identified as such by the disclosing Party at the time of disclosure and the disclosure, protection, use and handling thereof, shall remain subject to the security procedures and restrictions imposed by the disclosing Party's Government.
9. The disclosure of Proprietary Information under this Agreement by either Party to the other shall not be construed as granting to the receiving Party any right, whether express or implied by licence or otherwise, on the matters, inventions or discoveries to which such information pertains, or as granting any trademark, patents, copyrights, trade secret right or other form of intellectual property right.

10. Nothing in this Agreement may be construed as an obligation of either Party to disclose any Proprietary Information to the other, or to enter into any subsequent contractual relationship with such other Party.
11. This Agreement covers the exchange of Proprietary Information which may be made by either Party to the other until ten years from signing of the agreement or any extension thereto which may be agreed upon by the Parties in writing. Proprietary information relevant to the Program detailed in Exhibit 1, already made available to the other contractual Party before the effective date, shall also be protected under this Agreement.

It is understood by the parties that, prior to disclosure, the Disclosing Party shall have obtained any government authorisation needed for the export of the Proprietary Information

12. The expiry of the period contemplated in Article 11 of this Agreement shall not relieve the receiving Party from complying with the obligations imposed by Article 4 here above with respect to the use and protection of the Proprietary Information, received prior the date of such expiry, for a period of ten (10) years after such expiry.
13. The Parties are independent contractors. Each will bear all costs and expenses in connection with this Agreement. This Agreement is intended to facilitate only the exchange of Proprietary Information and is not intended to be, and shall not be construed to create a teaming agreement, joint venture, association, partnership, or other business organisation or agency arrangement and no Party shall have the authority to bind the other without the other Party's separate prior written agreement .
14. This Agreement shall be governed by and shall be interpreted in accordance with the substantive federal laws of Switzerland excluding it's choice of law rules.

Irrespective of the foregoing each Party shall remain bound by the provisions of its own national laws and regulations with respect to the transfer or use of Classified Information or information whose export is subject to an export license.

15. All disputes among the Parties, in connection with or arising out of the existence, validity, construction, performance and termination of this Agreement (or any terms thereof), which the Parties are unable to resolve among themselves, shall be finally settled by an Arbitration. The Arbitration shall be held in Geneva (CH) in English language, in accordance with the rules of the ICC – International Chamber of Commerce by three arbitrators appointed in accordance with said rules.
16. The foregoing constitutes the entire Agreement among the Parties with respect to the subject matter hereof and supersedes and cancels all prior representations, negotiations, commitments, undertakings, communications, either oral or written, acceptances, understandings and agreements among the Parties with respect to or in connection with any of the matters to which such Agreement applies or refers.
17. Notices to _____(**Name of Vendor**) shall be made at the following address:

(Complete Address of Vendor)

Attention: Mr. _____(**Name of the Authorised Person of Vendor**)

Notices to BHEL shall be made at the following address:

BHARAT HEAVY ELECTRICALS LIMITED,

HEAVY ELECTRICAL EQUIPMENT PLANT,

Ranipur, Haridwar-249403 (Uttarakhand), India

Attention: Shri B.M.Bansal, General Manager- Materials Management

18. The effective date of this Agreement shall be the date of the last signature appearing herein.

IN WITNESS WHEREOF, each of the Parties has caused this Agreement, to be executed by its duly authorized officer.

Date :

Signed for and on behalf of

Signed for and on behalf of

(Name of Vendor)

BHEL

By:

By:

Title:

Title:

Signature:

Signature:

EXHIBIT 1

to the

NON-DISCLOSURE AGREEMENT

between

_____ **(Name of Vendor)**

and

BHARAT HEAVY ELECTRICALS LIMITED

dated:

The Non Disclosure Agreement covers the exchange of Proprietary Information which may occur during the discussions and negotiations in view of a possible cooperation between the Parties in the following programs:

-Description of Material or Services for which the order is placed

_____ **(Name of Vendor)** list of products that require an exchange of Proprietary Information which may be occur during the discussions and negotiations in view of a possible cooperation for the above programs :

EXHIBIT 2

to the

NON-DISCLOSURE AGREEMENT

between

_____ **(Name of Vendor)**

and

Bharat Heavy Electricals Ltd.

dated:

Personnel of the Parties authorized to receive and/or transmit Proprietary Information
under this Agreement:

For **(Name of Vendor)**

(Name of Person)

Tel.

Fax

Address.

(Name of Person)

Tel.

Fax

Address.

For Bharat Heavy Electricals Ltd.

(Name of Person)

Tel.

Fax

Address.

(Name of Person)

Tel.

Fax

Address.

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 forMicro / 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