

Purch Req No.	Material Code.	Material Description	Spec-Var	DrawNo-Var	PR Quantity.	Base UoM
8000113624	TC9516003184	LP MOVING BLADE 2.8 Sqm-I LEFT	HY19360	23031920001-00	240.000	EA
8000113626	TC9516003206	LP MOVING BLADE 2.8 Sqm -III LEFT	HY19360	23032220001-00	159.000	EA
8000113621	TC9516003303	LP MOVING BLADE 2.8 Sqm-II LEFT	HY19360	23032120001-01	210.000	EA
8000113437	TC9516003354	L.P MOVING BLADE-2 (FORGING) LEFT	HY19360	11030762905-01	103.000	EA
8000113438	TC9516003362	L.P MOVING BLADE-3L (FORGING) LEFT	HY19360	01030762903-01	68.000	EA
8000113439	TC9516003370	L.P MOVING BLADE-4L (FORGING) LEFT	HY19360	01030762904-01	60.000	EA
8000113623	TC9517403003	LP GUIDE BLADE 2.8 SQM - 1 LEFT	HY19474	33011700001-00	300.000	EA
8000113434	TC9517403020	L.P.GUIDE BLADE 3.2SQM - 2 LEFT	HY19474	11112262001-00	106.000	EA

**PRE-QUALIFYING CRITERIA FOR PROCUREMENT OF FORGED BLADES FOR STEAM  
TURBINES THROUGH OPEN TENDER**

**Enquiry No.**

Suppliers of Forged blades has to furnish and fulfill the following requirements:

**1.0 SCOPE OF SUPPLY:**

Supply of Forged blades shall be as per the following applicable documents,

- a) Blade Material and supply as per the ordering specification & drawings
- b) Manufacturing and Inspection as per the ordering specification & drawings.
- c) Raw Material required for forging shall be procured from BHEL approved sources. List of BHEL approved Raw material sources will be provided along with the enquiry.

**2.0 MANUFACTURING AND TESTING FACILITIES:**

The details of manufacturing and testing facilities of the manufacturer shall be submitted in the format enclosed as Annexure-1 for assessment by BHEL.

**3.0 FIRST PIECE QUALIFICATION / PROCESS QUALIFICATION:**

Suppliers shall explicitly confirm their acceptance for the process qualification. Process qualification required for every material grade and size of blade performed by the supplier before starting production for the first order.

For the first time supplies, the supplier shall submit a MPP including the stage wise detailed manufacturing process (with control parameters at each stage) and quality checks planned to be followed during manufacture of the material

Approval of profile inspection template drawings shall be taken for all sizes of blades from BHEL before starting manufacturing.

For process qualification and starting actual production, Vendor shall manufacture pilot lot of five blades for each size as per the specification and ordering drawings. Inspection of pilot lot of each size shall be carried out in the presence of BHEL Hyderabad representative / TPIA as per order conditions. Based on test results, Pilot lot will be accepted by BHEL and process will be qualified for final manufacturing, Vendor shall confirm the same.

**4.0 PAST EXPERIENCE:**

The manufacturers who are having experience of manufacturing and supplying Forged blade for OEMs of steam turbines will be considered for the present enquiry.

Minimum two PO's shall be successfully executed in last five years. PO quantity (no. of blades dispatched) 30 or more manufactured through die forging process only shall be considered for past experience.

In support of above, the vendor has to furnish details of three POs of blade forgings, in the format given below:

Sl.NO	Purchase order number /customer details	Material Grade	Dimension: Width, pitch & Height	Delivered Qty(No. of blades)	Blade Weight	Date of supply
1						
2						
3						

Evidence of the dispatched Forged blade of above forgings (preferably Material Test Certificate copies) shall be submitted.

#### ANNEXURE -1

#### **DETAILS OF THE MANUFACTURER FOR SUPPLYING FORGED BLADES FOR THE FIRST TIME TO BHEL HYD**

BHEL ENQ. NO. :

DATE:

<b>1.0</b>	<b>ORGANISATIONAL INFORMATION</b>		<b>BHEL REMARKS</b>
1.1	MANUFACTURER NAME :		
1.2	HEAD OFFICE ADDRESS: TELEPHONE NO. WEB SITE		
1.3	FACTORY / WORKS ADDRESS: TELEPHONE NO. E-MAIL ( of the chief contact person )		
1.4	BRANCH OFFICE / MARKETING OFFICE ADDRESS TELEPHONE E-MAIL( of the chief contact person )		
2.0	MANUFACTURING FACILITIES(IN-HOUSE):		
2.1	FORGING FACILITIES :	CAPACITY / SIZE	
2.2	HEAT TREATMENT FACILITIES ( INCLUDING QUENCHING FACILITIES)		
2.3	OTHER MANUFACTURING FACILITIES		
3.0	TESTING FACILITIES:		

TESTING FACILITY		EQUIPMENTS/MACHINES	CAPACITY / SIZE	
3.1	CHEMICAL			
3.2	MECHANICAL TEST			
3.3	MPI/DP			
3.4	ULTRASONIC TEST			
3.5	OTHER FACILITIES			
<b>4.0</b>	<b>MANUFACTURER CREDENTIALS</b>			
3.1	CUSTOMER REFERENCE LIST OF SAME ITEMS			
3.2	PRODUCTION RANGE ( SIZE AND MATERIAL GRADES)			
3.3	COPY OF VALID ISO 9000 CERTIFICATE FOR THE MILL			
3.4	ANY OTHER INFORMATION LIKE REGISTRATION / SUPPLIES TO SISTER UNITS OF BHEL WITH EVIDENCES ( OPTIONAL INFORMATION)			

Note:

- 1) The above data shall be furnished / certified by the manufacturer only. Data certified by any other agencies will not be accepted
- 2) Any of the process / operation is sub-contracted, shall be mentioned by giving the details of the facilities and tie - up letter.
- 2) Manufacturer catalogues shall also be provided
- 3) The above information will be used for scrutinizing the technical offers for the above mentioned enquiry
- 4) BHEL may visit vendor's works for evaluation before technically accepting the offer. Vendor shall confirm the same.

SIGNATURE AND COMPANY STAMP OF THE MANUFACTURER

### **Financial Criteria for Pre-qualification**

The minimum average annual financial turnover of the supplier during the last 3 financial should not be less than Rs.46 Lakhs and positive net worth as per latest balance sheet.

Vendors shall enclose the last three financial years balance sheets and Profit & loss statements duly audited and certified by Chartered Accountant.

In case of final audited balance sheet / Profit & Loss statement for the last year is not available, provisional statement for the same duly certified by Chartered Accountant must be submitted.

In case audited financial statements have not been submitted for any of three years as indicated above, then the applicable audited statements submitted by bidders against the requisite three years will be averaged for three years i.e total divided by three.

Other incomes shall not be considered for arriving at annual financial turnover / sales. For evaluation purpose, only revenue from operations shall be considered.

# SPECIAL INSTRUCTIONS

## - GeM



1. Third Party Inspection is applicable. BHEL appointed TPI will inspect the enquiry items and charges to BHEL account.
2. Please follow the link >> <https://dipp.gov.in/public-procurements> for all circulars. Evaluation will be done accordingly.
3. The material shall be dispatched to BHEL, RC Puram, Hyderabad-502032.
4. Offers acceptance subject to end customer/BHEL approval.
5. Guarantee/Warranty as per BHEL specification. Unless otherwise specified in the specification, guarantee period shall be 12 months from the date of commissioning or 18 months from the date of supply/replacement whichever is earlier
6. Technical PQC & Financial PQC shall be submitted.
7. Quality Plan shall be submitted after placement of PO for BHEL approval.
8. For drawings & specifications please email us [rajesh274@bhel.in](mailto:rajesh274@bhel.in) or [upadhyay@bhel.in](mailto:upadhyay@bhel.in)
9. Quoted price shall be inclusive of all taxes.
10. BHEL reserves right to increase or decrease the quantity.
11. Delivery shall be 4 months from the date of PO.

Supplier Declaration:

I \_\_\_\_\_ (Supplier Name) declare that the above points are noted and Confirmed while submitting the quotation.

Authorized Signature & Stamp

(\_\_\_\_\_) Vendor Name