

SUBJECT	BID SPECIFIC ATC - 20233024
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1.	BHEL Contact (Technical/Commercial):
	For any technical/commercial clarification , please contact Mr. Sandeep, Manager (PPX-TL). e-mail: kumar.sandeep@bhel.in and Mr. Manoj Gaurav , Sr. Manager (PPX-TL) Contact No. 01334-28-5182, e-mail : mgaurav@bhel.in
2.	Acceptance of Offer:
	Bidder's offer shall be considered for evaluation based on Technical and other commercial documents submitted along with bid. Bidder's offer shall be acceptable subject to final acceptance of offer by Indenter. Price bid of those bidders shall be opened whose offer is techno-commercially is acceptable to BHEL (HEEP) Haridwar as per drawing/Specification. Note 01: PO No. &/OR Vendor's emblem/seal shall be clearly punch marked/ETCHED on each item. Note 02: The material is required for SUB/SUPER CRITICAL Projects.
3.	Splitting of Quantities:
	Quantity of splitting shall be as per GeM
4.	Inspection and Test Reports/Certificate
	NA
5.	Terms of Delivery:
	Delivery period shall be as per GeM. However, early delivery is also acceptable.
6.	Deviations:
	a) Technical Deviation: No Technical Deviation is envisaged. b) Commercial Deviation: No Commercial Deviation is envisaged. Item are required as per item description/specification mentioned against item. In case of any deviation offer shall be rejected.
7.	Terms of Payment:
	"For Non MSEs bidder: 100% of payment along with taxes, freight & insurance shall be made after receipt and acceptance of material and within 90 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. For Medium Enterprises bidder: 100% of payment along with taxes, freight & insurance shall be made after receipt and acceptance of material and within 60 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. For MSEs bidder: For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, the payment shall be made within 45 days or as prescribed in the relevant act. Benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. MSE benefits shall not be provided to Agents / Stockists / Dealers / Traders etc. for the offered items if not manufactured by themselves."

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	<p>Note 01:</p> <ul style="list-style-type: none"> • Bills shall be submitted to BHEL HEEP Haridwar office for processing along with billing checklist. • It should be ensured that Tax Invoice complies with statutory requirements under GST law to enable BHEL to avail Input Tax Credit. • Payment of GST component shall be made only if vendor has deposited the Tax and credit for the same is reflected in GSTN (GST Network). • Copy of GST Registration Certificate(s) shall be also be attached with Tax Invoice.
8.	<p>Prices:</p> <p>The quoted prices shall be on Firm basis. Price to be quoted as inclusive of GST, i.e., Ex-works including Packing & Forwarding Charges + F&I + GST.</p>
9.	<p>Reverse Auction:</p> <p>Bid to RA is applicable.</p>
10.	<p>Liquidated Damage for delayed Delivery:</p> <p>If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever.</p>
11.	<p>Unpriced Bid:</p> <p>Vendor to furnish unpriced bid mentioning "Quoted" against each BOQ line item and % of GST quoted in tender as per Annexure-A.</p>
12.	<p>Details of Bidder:</p> <p>Bidder to submit their complete contact information details as per Annexure-B.</p>
13.	<p>Make in India:</p> <p>For this procurement, the local content to categorize a supplier as Class-I local supplier/ Class-II local supplier/ Non-local supplier and purchase preference to Class-I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 Dtd. 04.06.2020, issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT but before opening of part-II bids against this NIT.</p> <p>"Bidder to specify the percentage of local content as per the format of self-declaration for local content" as per Annexure-C, if applicable.</p>
14.	<p>Evaluation Criteria:</p> <p>Evaluation shall be done on total package wise.</p>
15.	<p>Conflict of Interest:</p> <p>"A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <p>i) they have controlling partner (s) in common; or</p>

- ii) they receive or have received any direct or indirect subsidy/ financial stake from any of them;
or
- iii) they have the same legal representative/agent for purposes of this bid;
or
- iv) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder;
or
- v) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. one bidding manufacturer in more than one bid;
or
- vi) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:
 - 1. The principal manufacturer directly or through one Indian agent on his behalf; and
 - 2. Indian/foreign agent on behalf of only one principal;**or**
- vii) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid;
or
- viii) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business".

16. Risk Purchase:

In case of abnormal delays (beyond the maximum late delivery period as per LD clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material 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 or under General Law.

Action against Bidders / vendor / supplier / contractor in case of default:

In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc.

Suspension of Business Dealings could be in the form of "Hold" or "Banning" a supplier/ contractor or a bidder and shall be as per "Guidelines for Suspension of Business Dealings with Suppliers/ Contractors" available at BHEL's website "<https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors>

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	<p>"The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the firms debarred across BHEL, shall be rejected. The list of firms debarred across BHEL is available on BHEL web site www.bhel.com.</p> <p>1.0 Integrity commitment, performance of the contract and punitive action thereof:</p> <p>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.</p> <p>BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.</p> <p>1.2. Commitment by Bidder/ Supplier/ Contractor:</p> <p>1.2.1. The bidder/ supplier/ contractor commits 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.</p> <p>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 issued from time to time by Govt. of India/ BHEL.</p> <p>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.</p> <p>If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in malpractices, 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".</p>
17.	RXIL (TReDS) Platform:
	BHEL is registered with RXIL (TReDS) platform. MSME bidders are requested to get registered with RXIL (TReDS) platform to avail the facility as per Gol guidelines.
18.	<p>Bidder to submit sealed and signed copy of the following while uploading bid in GeM portal:</p> <p>a) Bid Specific ATC: This document.</p> <p>b) Annexure-A: Unpriced Bid</p> <p>c) Annexure-B: Contact Details of Bidder</p> <p>d) Annexure-C: Local Content Self-Certification</p> <p>e) Annexure-D: Schedule of Commercial Deviation</p> <p>f) Annexure-E: Schedule of Technical Deviation</p> <p>g) Annexure-F : GFR Rules</p> <p>h) Annexure-G: PRE-QUALIFYING CONDITIONS</p> <p>Note: In case of non-receipt of above documents, the bidder is liable for rejection.</p>
19.	All other terms & conditions shall be as per GTC of GeM.

Signature of the authorized representative of

Place :

Date :

Bidder's Name :

Designation :

Company Seal :

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ANNEXURE-A

UNPRICED BID

Sl. No.	Item Description	Unit	Quantity	Item	GST
1.	AAA224998587 DRG: - REV:00 SET OF CUTTER FOR SEAL STRIP FOR FIR TREE BLADE SHROUD DRG.NO.-R2249-9858 Rev-01	SET	06	Quoted (Inclusive of GST and Freight & Insurance)	18%

Signature of the authorized representative of

Place :

Date :

Bidder's Name :

Designation :

Company Seal :

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ANNEXURE-B

CONTACT DETAILS OF BIDDER

Work Address	
Correspondence Address	
PAN NO.	
GST No.	
Details of contact person for clarification regarding bid:	
Contact Person Name	
Designation	
email ID	
Mobile No.	
Landline No.	

Signature of the authorized representative of

Place :
Date :

Bidder's Name :
Designation :
Company Seal :

Self-certification as per Government Public procurement order no. P-45021/2/2017-BE-II dt.15.06.2017 & P-45021/2/2017-PP(BE-II) dated 28.05.2018,29.5.2019 & 04.6.2020, it is hereby certifying that we

.....
(supplier name) are(Class-I/Class-II) local supplier and will meet the requirement
of minimum local content of (50%/20%) as defined in public procurement order dated
04.6.2020 for material against Enquiry no.
..... Details of location at which local value
addition will be made is as follows: -
.....
.....

We also understand, false declarations will be in breach of the code of integrity under Rule 175(1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the general financial rules along with such other actions as may be permissible under law. Seal & Signature of Supplier

Seal & Signature of Supplier

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ANNEXURE-D

SCHEDULE OF COMMERCIAL DEVIATION

The following are the deviations/ variations exception from the General Terms and Conditions:

Sl. No.	Clause No. of Terms and Conditions	Statement of Deviation
	Nil Deviation	Nil Deviation

In case, this schedule is not submitted, it will be presumed that the equipment/ material to be supplied under this contract is deemed to be in compliance with the latest General Terms and Conditions of GeM & Bid specific ATC.

If there is **Nil Deviation**, even then the format to be filled as **Nil Deviation**.

Note:

1. Continuation sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.
2. Deviation mentioned in this schedule shall only be considered.

Signature of the authorized representative of

Place :
Date :

Bidder's Name :
Designation :
Company Seal :

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ANNEXURE-E

SCHEDULE OF TECHNICAL DEVIATION

The following are the deviations/ variations exception from the Technical Specifications:

Sl. No.	Clause No. of Technical Specifications	Statement of Deviation
	Nil Deviation	Nil Deviation

In case, this schedule is not submitted, it will be presumed that the equipment/ material to be supplied under this contract is deemed to be in compliance with the Technical Specifications.

If there is **Nil Deviation**, even then the format to be filled as **Nil Deviation**.

Note:

- Continuation sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.
- Deviation mentioned in this schedule shall only be considered.

Signature of the authorized representative of

Place :

Date :

Bidder's Name :

Designation :

Company Seal :

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ANNEXURE-F

**COMPLIANCE TO GOVERNMENT OF INDIA ORDER OM NO.6/18/2019-PPD DATED 23.07.2020
REGARDING RESTRICTIONS UNDER RULE 144 (XI) OF THE GENERAL FINANCIAL RULES (GFRS), 2017**

Sl. No.	Description	Bidder's confirmation
1.	<i>We, M/s have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; We hereby certify that we are not from such a country.</i>	Agreed

Note: Non-compliance of above said GoI Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by BHEL.

Signature of the authorized representative of

Place :

Date :

Bidder's Name :

Designation :

Company Seal :

Indent : Dated 20233024					
1.0	PRE QUALIFYING CONDITIONS	REQUIRED	OFFERED	DEVIATION	REMARKS
1.1	Only OEM vendors who are manufacturing and supplying HSS Multi point tools or profile relieved form cutters or firtree cutters and such items are presently working satisfactorily should quote. In case of OEM authorised vendors, authorisation certificate from OEM should be submitted along with offer.	Vendor to accept/agree			
1.2	Name of customer / company where these HSS multipoint tools or profile relieved form cutters or firtree cutters as mentioned above have been supplied along with their Purchase Order copies. Offer without this document shall be rejected. However in the submitted PO copy, offered price may be concealed by suitable means.	Vendor to accept/agree			
1.3	Proven and application specific tools are required for seal strip milling of steam turbine blades of critical nature from high alloy steels in CNC milling machines. Hence, following document is required from participating vendor as qualifying requirement - Quality Acceptance documents SRV/Successful performance certificate of HSS multi point tools or profile relieved form cutters or firtree cutters from BHEL or from other reputed turbine manufacturers. Offer without this document will be rejected.	Vendor to submit details			
1.4	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/incorrect, their offers are liable to be rejected.	Vendor to accept/agree			
2.0	TECHNICAL ACCEPTANCE CRITERIA				
2.1	All qualified vendors shall bring 1 set of tool (as submitted in offer against item of drawing number R2249-9858 Rev 01 (<u>Annexure-I</u>) same as offered in quotation as sample on free of cost on returnable basis within a month from confirmation for submission of sample tools from BHEL. If any vendor fails to bring tool within one month, he will be given grace period of further 2 weeks to submit tools for carrying out trials. After expiry of the grace period, no sample tool will further be accepted and offer of vendor will be rejected.	Vendor to agree/submit			
2.2	One Set of Cutter as submitted by all qualified vendors shall be tried on our existing Jobs Sachman make 5-Axis CNC Vertical Milling machines as per Input Material, Cutting parameter (clause 2.6) & Successful acceptance criteria (clause 2.7) is mentioned below.	Vendor to accept/agree			
2.3	Offers of only those vendors shall be considered as technically acceptable whose tools submitted as sample run successfully as per performance criteria mentioned in clause 2.7 during trial as per clause 2.6.	Vendor to accept/agree			
2.4	There shall not be any liability on BHEL for failed trial. Price bid shall be opened only for vendors whose samples have been successfully tried as per specified criteria. Subsequently, ordering shall be done on L-1 vendor as per BHEL purchase policy & practice.	Vendor to accept/agree			
2.5	After trial sample of tools submitted in technical bid can be taken back by vendor. Sample of tools after its use during trial may or may not be in good condition. Vendor must be ready to take the sample in damage consumed condition. For this, vendor must express his intention explicitly to take sample tool back in technical bid itself.	Vendor to confirm			
2.6	Input Material & Cutting Parameters: (a) Feed- 30-40 mm/min, RPM-200 for LM2L or 2R-50K (b) DOC- 2 mm (as per depth of the fin) (c) Material Grade (X20Cr13) Hot rolled material (material property details as per <u>Annexure II</u>) (d) Input Job Shape - Rectangular cross sectional blank or Shroud portion of Firtree blade clamped in existing fixtures of BHEL as shown in <u>Annexure-IV</u> .	Vendor to accept/agree			
2.7	Acceptance Criteria: (a) Operation - Seal Strip milling on rectangular cross sectional bar blank on length of minimum 60mm or Shroud portion of Firtree blade clamped in existing fixtures of BHEL by milling using BHEL provided Program on existing Jobs Sachman make 5-Axis CNC Vertical Milling machines. <u>Annexure-III</u> depicts the required fin dimensions to be maintained after the operation with the trial cutter. (b) Successful Acceptance Criteria:- The fins manufactured on the blank piece or in shroud of the blade shall be as per <u>Annexure-III</u> . The dimensions (width, height, and angle) and the gap of the seals shall be within tolerances mentioned in sketch of <u>Annexure-III</u> . If the dimensions is found satisfactory, the cutter will further be used to manufacture the fins of same dimensions in minimum 05 no's of blanks/05 nos of blades. The dimensions of all the 05 jobs will be checked and shall be found satisfactory. (c) The milled strips across the length of the blank/ shroud portion of the blade shall not be found broken after the operation.	Vendor to accept/agree			
2.8	Tools of specific geometry of the required cutter which have already been proved at New Blade Shop, HEEP, BHEL. Handwar in similar seal strip milling operation will be exempted for trial. Vendor are requested to submit PO copy, of HEEP/SRV acceptance reports/ satisfactory BHEL trial reports as proof for getting exemptions as mentioned above.	Vendor to accept/agree			

Dipankar Show,
(Dy. Manager, TBM & NBS-Shop Tech)

Anil Kumar
(Mgr. - TBM & NBS-PEB)

Required Cutter sketch 1



23/12/23
Dipankar

Annexure-II

Material Property Details

Elements		Material wise composition (in % weight)
Symbol	Name	X20Cr13
C	Carbon	0.17 - 0.22
Si	Silicon	0.10 - 0.60
Mn	Manganese	0.30 - 0.80
P	Phosphorous	< 0.030
S	Sulphur	< 0.020
Cr	Chromium	12.5 - 14.0
Mo	Molybdenum	-
Ni	Nickel	0.30 - 0.80

Mechanical Properties:

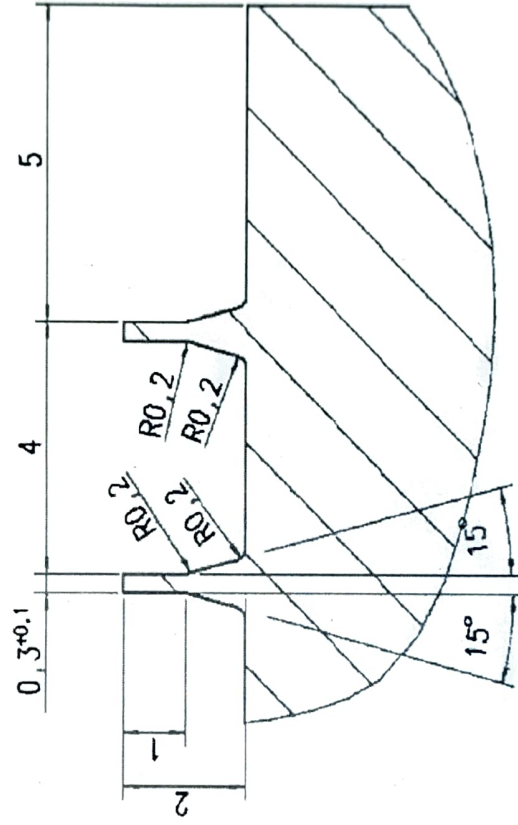
Property	Value
	X20
0.2% Yield Strength	> 600
Tensile Strength	800 - 950
% Elongation (l=5d)	> 15
RA (%)	> 50
Impact Energy (J)	> 20
Hardness (HB)	< 280

Author
26/12/23

26/12/23
Dr. Prakash

Annexure-III

Sketch 2 of Required Fin Dimensions after carrying out trials

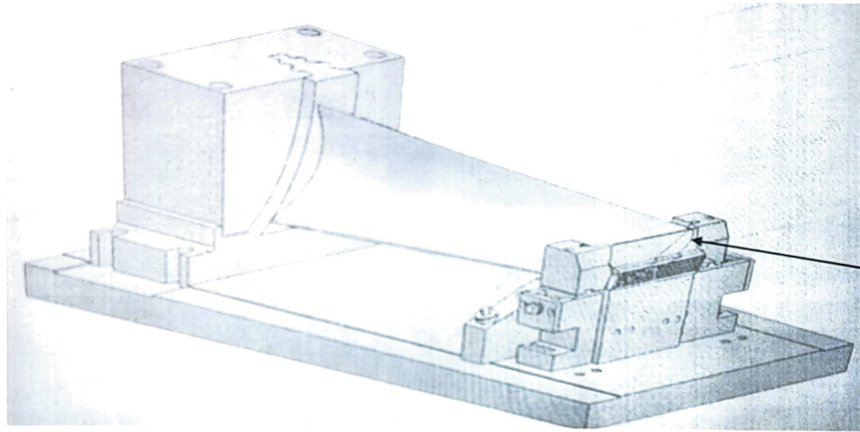


23/12/23
Dharmendra

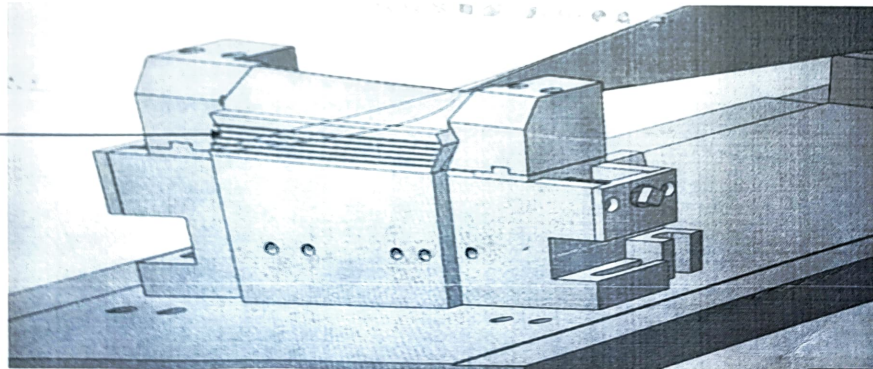
26/12/23
Dharmendra

Annexure-IV

Photo of blade holding fixture



Shroud
portion of
blade



Milled fins
present in
shroud

Amir
26/12/23

Dipankar
23/12/23

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

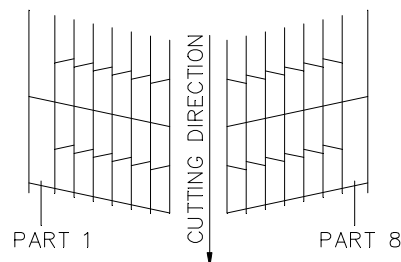
FORM DG38(B)

DRAWING No. R2249-9858

16 TEETH
GROUND RELIEVED
R.H. CUTTING
HELIX $12^{\circ}=1182.4\text{MM}$

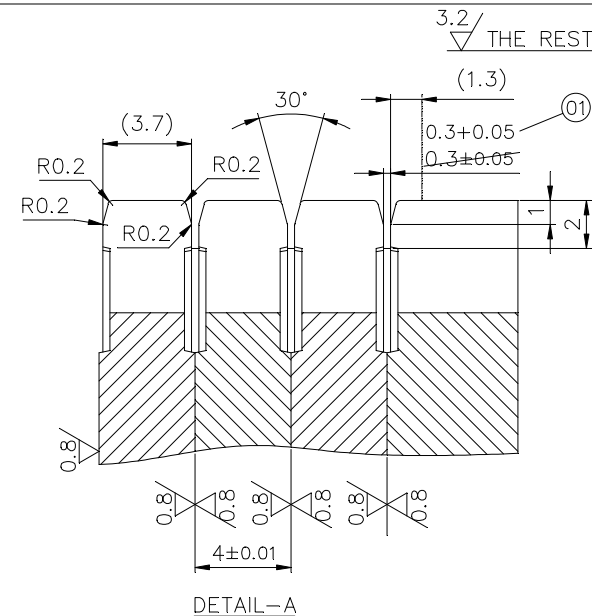
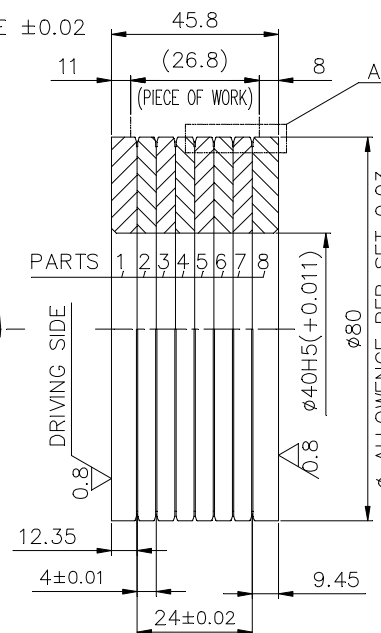
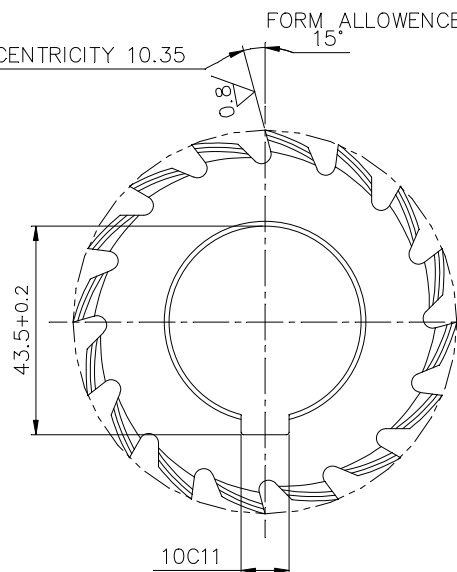
R.H. HELIX

L.H. HELIX



GRINDING ASSEMBLY
(SCHEDULE)

EXCENTRICITY 10.35

FORM ALLOWENCE ± 0.02 

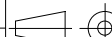
PART 1- R.H. HELIX
PART 2-7- STAGGERED TOOTH SYSTEM
PART 8- L.H. HELIX



NOTES: —

1. NON CUTTING SHARP EDGES TO BE ROUNDED OFF.
2. HARDEN TO HRc 64÷68.
3. CONSERVATION TO BE DONE AS PER TL 30007.

							H.S.S.—CO			
							-			
VAR.00	REMARKS	ITEM No.	DESCRIPTION	STD	DRAWING No.		MATERIAL CODE	A	UNIT	UNIT WEIGHT
						VAR.	MATERIAL SPECN.	C		QTY.

GMS No./GR.SP.No.				STATUS OF DRG.	TYPE OF PRODUCT			COMP. DRG. No.			M/C TOOL TRANS No.			REF. DRG. No.							
AGREED DEPT.		NAME		SIGN.	DATE	660 MW			01030758001 & 03, 01030758007 VAR 01 & 02 01030750001 & 03			627			155921 (SAACKE)						
TBM		ANIL KUMAR		-Sd-	28.08.18				DESIGN ORDER No. NBF/2112			M/C MODEL No. 3-099									
<div><div>बी.एच.ई.एल. BHEL</div><div>BHARAT HEAVY ELECTRICALS LTD. HARDWAR</div></div>							NAME		SIGN.		DATE		No. OF VAR.								
						DRN	GHAN SHYAM		-Sd-		28.08.18										
						CHD	RAVI		-Sd-		28.08.18										
						APD	GAGAN		-Sd-		28.08.18										
REV		DATE		ALTERED		SJT EGS		DEPT.		JTE		SCALE		WEIGHT(Kg)		REF. TO ASSY. DRG.		ITEM No.		No. OF ITEMS	
(01)		01.02.22		CHECKED		SJT EVC		CODE		209				NTS		~1					
DRG REVISED AS PER CAF NO JTE-22-F0001								TITLE SETS OF CUTTER FOR SEAL STRIP FOR FIR TREE BLADE SHROUD						DRAWING No. R2249-9858		REV					
																(01)					
														SHEET No. 01		No. OF SHEETS 01					

SIZE A 3