

NIT (Notice Inviting Tender)

ANNEXURE - A

Government of India
Department of Atomic Energy
Nuclear Fuel Complex
TOOL ROOM (95)
NOTICE INVITING TENDER

Tender No. - NFC/TR/WO-134/2017

Dt: 09/09/2017

To
M/s. _____

Dear Sir,

On behalf of the President of India, sealed item rated tenders are invited by Nuclear Fuel Complex, Department of Atomic Energy, ECIL Post, Hyderabad -500 062 from competent and well experienced contractors for the following work on works contract basis.

- 1) Name of Work : Outsourcing of material handling, machining of tools, removal of scrap, coolant replenishment, coolant tank cleaning.
- 2) Scope : Outsourcing of material handling, machining of tools, removal of scrap, coolant replenishment, coolant tank cleaning. Detailed scope enclosed.
- 3) Duration of Contract : 300 working days approximately.
- 4) Estimated cost :Rs16,19,000/-(Rupees Sixteen Lakhs Ninteen Thousands Only) + 18% GST
- 5) Earnest Money Deposit : Rs 32,380/- (2% of estimated cost) (Rupees Thirty Two Thousand three Hundred Eighty Only)
EMD in the form of Fixed Deposit Receipt / Crossed demand draft drawn in favor of "Pay and Accounts Officer, NFC" payable at Hyderabad shall be submitted. Offers without EMD will be summarily rejected.*
- 6) Issue of tender document : From 12/9/2017 to 19/9/2017
- 7) Last date for submission of tender : On 23/9/2017 up to 14:00 Hours.
- 8) Date of opening the sealed tenders : On 23/9/2017 up to 14:30 Hours
- 9) Cost of tender document : Rs.500/- (Demand Draft or Banker's Cheque payable at Hyderabad drawn in favour of "Pay & Accounts Officer, NFC")

Tender documents can be obtained by submission of GST Registration Certificate and DD / Bankers cheque as per the details given above in Sl. No. 9 and Sl. No. 40 & 42 from Tool Room (TR Office or TR Stores), NFC between 0900 hrs to 1600 hrs on working days (Ph: 040-27184144, 27184244).

Quotations are to be submitted strictly as per the format enclosed. Tender and EMD shall be placed in two separate envelopes clearly indicating tender No. and each marked as TENDER & EMD respectively. Both the envelopes shall be submitted together in another sealed envelope super scribing Tender no. & description of work along with due date and time of submission on the outer cover.

Your offers shall be deposited in tender box kept at CISF entry at North gate, NFC, Nuclear Fuel Complex, ECIL Post, Hyderabad - 500 062, on or before 23/9/2017 up to 14:00 Hours.

Tenders will be opened at Works Section, III Floor, Aadhar Building, NFC. Late / delayed & tenders not accompanied by EMD shall not be considered.

(G.N. GANESHA)
AGM (FT-ZFP & NZFP, and TR)
For & on behalf of the President of India

Note : NFC is committed to a corruption free work environment. "All the purchase and contracts commitments of NFC will be honoured without the citizen having to pay any bribe". "In case any person demands any bribe, it is the duty of a responsible citizen to inform the matter to the Vigilance Officer, NFC, Hyderabad". Telephone No. 040-27122181 & 040-27184314 (Office) and 040-27137012 (Residence). Email: vo&nfc.gov.in.

*Name and A/c. No. of the contractor may be written at the back side of DD submitted towards EMD and the DD to be submitted shall be drawn after the date of release of NIT to ensure that it is valid for entire offer period.

Terms and Conditions of NIT No: - NFC/TR/WO-134/2017

1. The work order period is 300 working days affirmatively and the work will be started 1st Oct 2017.
2. Scope of work:
 - (a) The contractor has to engage persons for the removal of tool steel material machined scrap from various conventional and CNC machines (Turning ,grinding & milling etc) . These scrap is to be stored in the drums, to be loaded on forklift & unloaded scrap from drums at TP stores. Movement of drum by forklift will be scope of NFC.
 - (b) Coolant tank of various machines at Tool Room is to be replenished by water emulsion based coolant time to time .Qty per shift/ Number of occasion mentioned in Sl. No. 41.
 - (c) The coolant tanks (in various capacities max. 500 ltrs) is to be cleaned after complete removal of scrap , coolant etc. Qty per shift/ Number of occasion mentioned in Sl. No. 41.
 - (d) The Contractor has to engage labour who is able to read and write English for Loading of tool steel raw Material on forklift at tube plant stores, unloading of material from forklift at Tool Room and stacking as per size and grade in Tool Room, NFC. Material movement shall be carried out with only calibrated ropes/slings etc. Fork lift along with driver will be arranged by NFC and hence not in the scope of the contractor. For material movement all crane operations shall be carried out by NFC personnel.
 - (e) The tenderer has to engage ITI qualified machinist and turner with a minimum experience of 1 year or apprenticeship on machining on Lathes and milling machines and cutting of raw material. The job has to be carried out at Tool Room, NFC. NFC will provide all the tools, measuring instruments, fixtures, and machines necessary to carry out the machining works Measuring instrument need to be retuned in good condition on same day.
 - (f) The raw material to be machined to finished sizes as per the drawings enclosed in NIT. Details such as input blank size, finish size, hardness tolerance etc are mentioned in drawings. Milling and turning Job to be done on HMT make FN2U, FN3U conventional milling machines and HMT make NH22, NH26, L45, L50 conventional lathe machine respectively. Raw material cutting of different diameter to be done on bend saw machine. Qty of cumulative diameter of the various sizes of component is mentioned at Sl 41.
3. They should be physically and mentally fit and their fitness to be certified by a qualified & authorized Medical Practitioner (Not an RMP Doctor).
4. The workers engaged by the contractor should wear uniform which is distinct from NFC uniform. Safety shoes and helmets required for carrying out the job safely are to be provided by the contractor for all the workers engaged by him and ensure its usage. Other PPE as required for the job like hand gloves will be provided by NFC. The contractor has to ensure safe working practices and follow all safety rules and regulations stipulated by SED, NFC from time to time.
5. The contractor will be completely responsible for the job. The contractor shall deploy sufficient man power required for completion of the work. The contractor shall entrust a competent person as supervisor who shall fully be responsible for carrying out the jobs safely. Authorization shall be furnished in writing. The contractor shall deploy only qualified man power who have prior experience in the works as brought out in the scope of work at Sl No 2.
6. No child labour should be engaged.
7. Contract labour are to be engaged only in one shift General Shift or Second shift.
8. The workers engaged by the contractor should wear uniform which is distinct from NFC uniform. Safety shoes and helmets required for carrying out the job safely are to be provided by the contractor for all the workers engaged by him and ensure its usage The contractor has to ensure safe working practices and follow all safety rules and regulations stipulated by SED, NFC from time to time. Material movement shall be carried out by only calibrated and adequate capacity slings/ropes. The safety of labours engaged shall be at the risk of contractor and NFC is not responsible for any untoward accident.

9. The contractor must follow all Labour Laws such as Contractor (Regulation & Abolition Act), Payment of Wages Act, EPF & MP Act, ESI Act, Payment of Bonus Act, Employees Compensation Act etc. NFC reserves right to ask Contractor to furnish proofs / documentary evidence for following the above laws. Clarifications on statutory provisions if any, may be sought from Welfare Officer, NFC, Hyderabad on 040-27183059 or wo@nfc.gov.in on any working day during office hours. Payment of minimum wages, as circulated by RLC (C) Hyderabad to the labourers .
10. Wages are to be paid as per Minimum Wages Act, notified by RLC (C) from time to time. Offers shall not be less than the total of the minimum wages.
11. The contractor shall make the payment to the labourers through their bank account only. Photo-copy of the transaction from contractor to individual labourer / deposit statement of laborer's bank pass book shall be required as documentary evidence. If there is no bank a/c of the labourer, the same must be opened; as payment evidence through bank only shall be accepted.
12. All the contract laborers engaged shall be covered by ESI & EPF compulsorily. The charges towards ESI, EPF has to be indicated separately. Payment towards ESI & EPF will be made after producing documentary evidence only
13. Earnest Money Deposit at the rate of 2% of estimated cost put to tender shall be submitted along with tender in the form of Fixed Deposit Receipt / crossed demand draft drawn in favour of "Pay and Accounts Officer, NFC" payable at Hyderabad. Offers without EMD will be summarily rejected.
14. Certification from Officer-In-Charge at NFC regarding payment of minimum wages to the contract labour is to be enclosed along with the claim.
15. The contractor shall produce necessary police verification certificates from the local Police Station for the manpower being engaged for the purpose.
16. Valid Medical fitness certificate from at least an MBBS Doctor for the workers engaged shall be submitted. The Contractor shall ensure that all his labour who are engaged in work are covered under ESI and EPF. Proof of the same shall be produced before start of the work.
17. The quoted value shall be exclusive of ESI, EPF and inclusive of GST and any other mandatory duties and levies of the Government. The bills will be released against submission of documentary evidence towards payment of ESI, EPF and Service Tax to the concerned authorities. Parentage (%) of GST included in Quote rate shall also be mentioned.
18. The contractor shall provide the registration details of Income Tax, GST ESI, EPF, etc., while collecting tender document and copies of the same shall be submitted along with tender document.
19. Performance Guarantee @ 5% of Work Order value shall be submitted within 10 days (4 to 15 days) from the date of issue of letter of acceptance in the form of Fixed Deposit Receipt or Demand Draft or Bank Guarantee. Incase bank guarantee is furnished, it should be valid up to 14 months from the date of issue of the work order along with an additional claim period of six (06) months. (Extension of time for submission of Performance Guarantee at the request of contractor shall be charged @ 0.1% per day of performance guarantee amount.
20. In case of non-submission of Performance Guarantee within the prescribed / extended time, the Earnest Money Deposit submitted will be forfeited.
21. Security Deposit @ 2.5% of the work Order Value shall be recovered from Running Accounts bills. The Security Deposit amount recovered shall be released after three (3) months from the date of completion of entire work, or after payment of final bill, whichever is later.

22. Income Tax @ 2% or as applicable & TDS towards GST as applicable at source shall be deducted from the payments made. Contractor shall furnish his PAN No. and Bank details along with a photo copy of the same duly countersigned by him.
23. Payment for the work done by the contractor shall be made based on the work done by contractor which was accepted and measured by the Officer-In-Charge, duly approved by the Competent Authority.
24. Offers received will be evaluated based on the total cost quoted inclusive of GST and exclusive of ESI and EPF.
25. The offers should be kept valid for a period of three months from the date of opening tender.
26. Incomplete and conditional tenders shall be rejected. However, unconditional rebates are acceptable.
27. Contractors shall quote the rates both in words and figures.
28. In case there is a variation between the rates in figures and words, the rate which corresponds to amount worked out by the contractor shall be taken as correct.
29. When the amount of an item is not worked out by the contractor, or if it does not correspond with the rates written either in figures or in words, then the rate quoted by the contractor in words shall be taken as correct.
30. When the rate quoted by the contractor, in figures and in words tallies, but the amount is not worked out correctly, the rate quoted by the contractor shall be taken as correct and not the amount.
31. Contractor shall sign each page of the tender document along with the Schedule of quantities & rates.
32. In case the contractor fails to commence the work specified in the tender document within the prescribed time schedule, then the Government shall without prejudice to any other right or remedy be at liberty to forfeit whole EMD absolutely.
33. The contractor shall ensure that labour deployed for the contract would confine themselves to their respective places of work and do not indulge in activities that would be harmful to NFC.
34. NFC reserves right to accept or reject any quotation, either completely or partly, without giving any reasons.
35. If on acceptance of the tender, owing to the circumstances if the scope of the work remains altered, reduced or abandoned for any reason NFC shall give a notice in writing to that effect to the contractor who shall act accordingly. Also, if the workmanship is not satisfactory, the contract shall be cancelled.
36. Before quoting, the contractor may visit NFC for assessment of work with prior permission of DCE (Str, FT&ISO)/AGM (FT&TR)/Dy Mgr TR. He may contact at 040-27184308 / 4769 / 4144 / 4244 (Phone No.)
37. If the contractor fails to execute the work completely, then the Government shall without prejudice to any other right or remedy be at liberty to forfeit whole Security Deposit and Performance Bank Guarantee absolutely.
38. If the L-1 bidder quoted much lower than the estimated cost, then a Bank guarantee for the differential cost may be obtained from the L-1 bidder as per CVC guide lines.
39. In case of satisfactory completion of the work for 12 months, the contract may be extended for another 12 months with the same rate, T&C's in case the contractor agrees.
40. The contractor shall provide the valid contractor's registration certificate, Income Tax returns (last 3 years), valid PAN details, GST registration details, ESI, EPF, etc. while collecting tender document and copies of the same shall be submitted along with offer. The tender document will be issued to contractors only against submission of these documents.

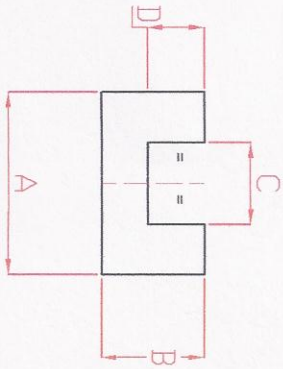
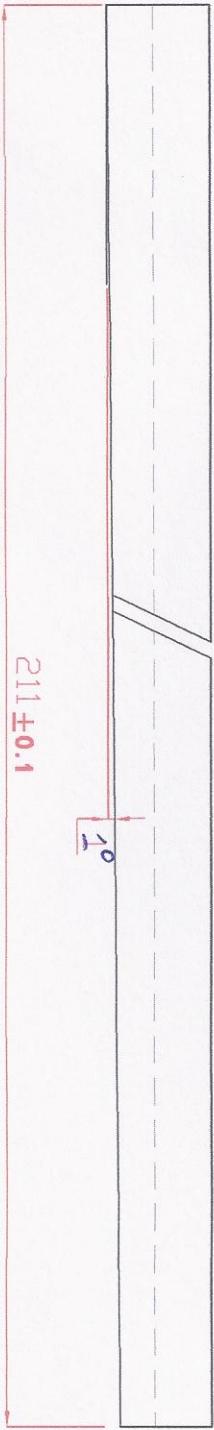
41. Qty/Number of occasion for the jobs.

Sl. No.	Description of item	Operation	Total Qty/ number of times/year
1)	Removal of scrap		18000 kgs
2)	Coolant tank Cleaning		400 times
3)	Coolant Replenishment		800 times
4)	Loading of Material on forklift at tube plant stores, unloading of material from forklift at Tool Room and stacking as per size and grade		150000 kgs (15 Te)
5)	HPTR 8 -15 Support plate Drg no. NFC/TR/Rough machining/1	Slotting (430 mm length)	400
		End facing (215 mm length)	800
		Back taper	800
6)	HPTR 10 - 20 Support plate Drg no. NFC/TR/Rough Machining/1	Slotting (430 mm length)	400
		End facing (215 mm length)	800
		Back taper	800
7)	25 VMR die	Pocket milling	95
		Key milling	95
8)	CRTM 32 die Drg no. NFC/TR/CRTM32/1	Slotting Two sides	30
9)	CRTM 55 die Drg no NFC/TR/CRTM55/1	Slotting Two sides	30
10)	CRTM 32 die, CPM 32 & 25VMR Dies roughing as per Dwg No: NFC/TR/25 VMR DwgNo:NFC/TR/CRTM32 Dwg No:NFC/TR/CPM32	ID , OD & Thickness machining	160
11)	**pilger mill tools and extrusion tools Threading as per drawing Dwg No: NFC/TR/EPP Tool Threading Dwg No: NFC/TR/Pilger tool Threading	Threading	500
12)	**Pilger mill tool Mandrel length & centering DWG No: NFC/TR/pilger tool/centering	Facing & centering	700
13)	**Raw material cutting in different diameter	Raw materials cutting for all toolings.	99000 mm (diametrically) Note: Cumulative of all component diameters to be cut

42. **Eligibility Criteria :**

- (i) The contractor should have executed machining works involving operation of lathes, milling machines.
- (ii) The contractor shall engage ITI qualified, skilled machinist and turner for machining (Milling, turning, Cutting) operations, semi skilled persons who shall be able to read and write for material handling, unskilled person for removal of scrap, coolant replenishment, coolant tank cleaning. Minimum qualification for the supervisor engaged shall be BSc/Diploma (Mechanical).
- (iii) Contractor should have executed single work amounting to minimum 80% of estimated value or at least two works of minimum 60% each of estimated value or three works each of value more than 40% of estimated value within the period of last seven financial years. Work order copies of same work must be submitted while applying for the tender. Details and documental evidence (copy of work order and work completion certificate if any) of such works shall be submitted while collecting the tender documents and also along with the offer. The tender document will be issued to contractors only against submission of details of such works.

(Note : Tender document will be issued to the contractors who meet the eligibility criteria and submit the required documents).



SUPPORT PLATE	A	B	C	D
8_15	41.5 ± 0.1	23.5 ± 0.1	18.5 ± 0.1	13 ± 0.1
10_20	49.5 ± 0.1	26.5 ± 0.1	23.5 ± 0.1	15 ± 0.1

Notes:

- 1- All dimensions are in mm
- 2- Material : AISI H-11 HARDNESS UP TO 235 BHN
- 3- Blank Size(8_15) : 430x41.5x23.5 mm
- 4- Blank Size(10_20) : 430x49.5x26.5 mm
- 5- Slotting to be done on 430mm length
- 6- For facing & back taper blank size will be 215mm

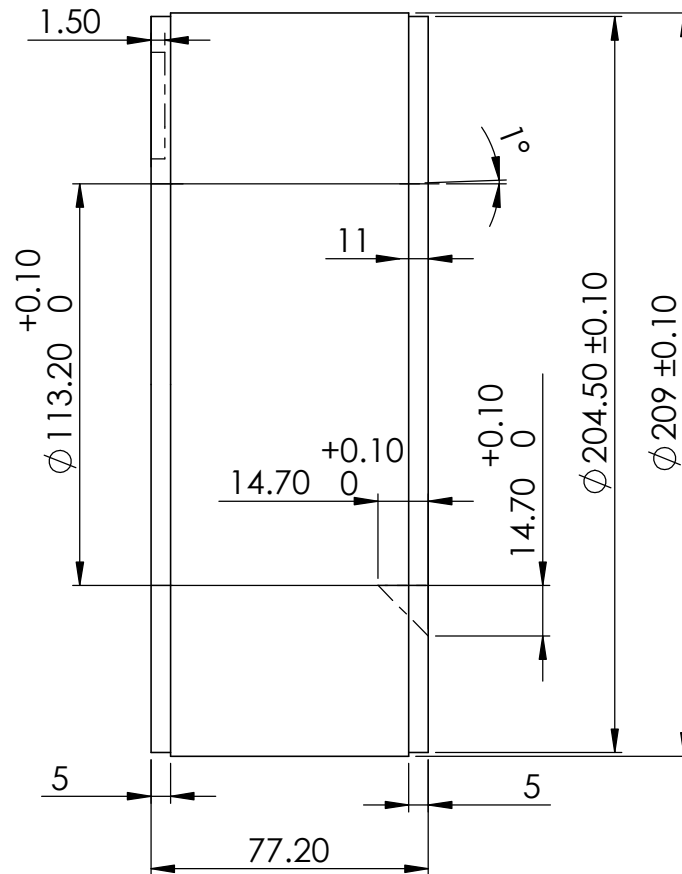
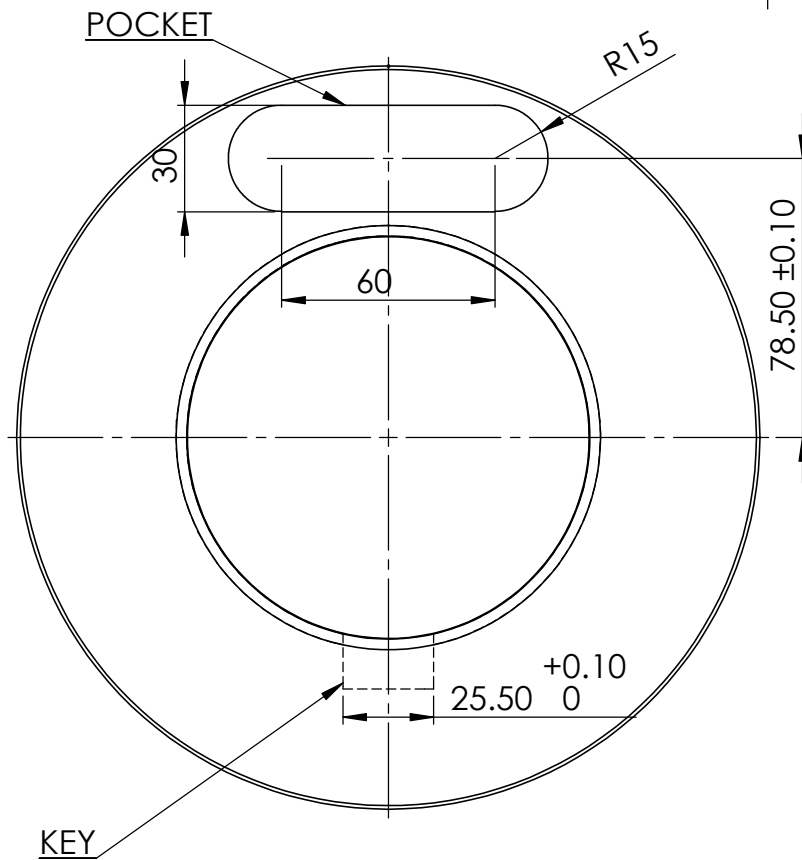
TITLE - HPTR SUPPORT PLATE FOR SLOTTING, FACING & BACK TAPER

INDEX	REV	DATE	BY	CHKD	DATE
DESIGN					
PROJECT OR SECTION	TOL. ROOM				
DRAWN			DESIGN CHECKED		
APPROVED			SCALE		
N.T.S.					

GOVERNMENT OF INDIA
 THE MINISTRY OF POWER
 NUCLEAR FUEL COMPLEX
 HTR/PAWR-300M2

DRY N.D.
 -NFC/TR/ROUGHMACHINING/01





UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN MILLIMETERS
 SURFACE FINISH:
 TOLERANCES:
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DEBUR AND
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 EDGES

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REVISION

	NAME	SIGNATURE	DATE			
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A						

TITLE:

25 VMR POCKET MILLING
 & KEY MILLING

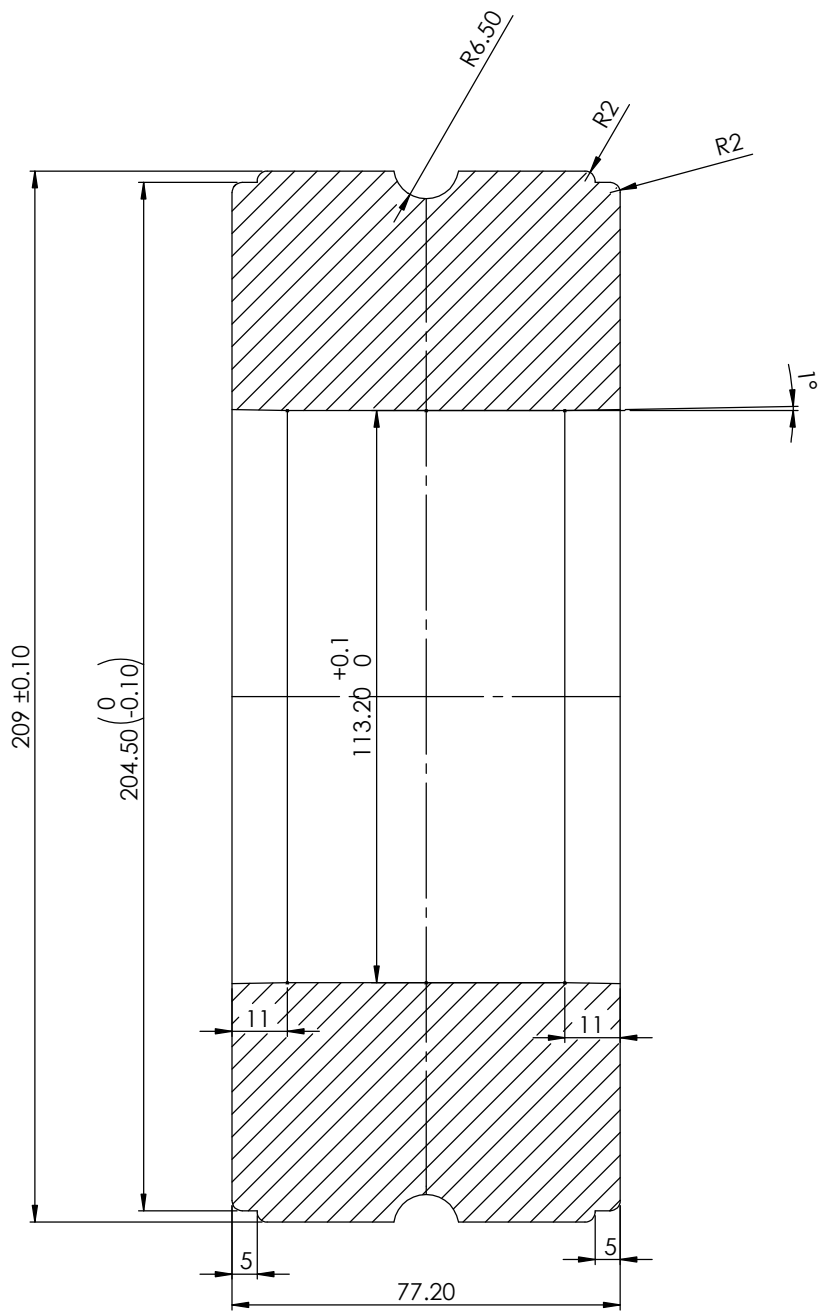
DWG NO. 25VMR DIE

A4

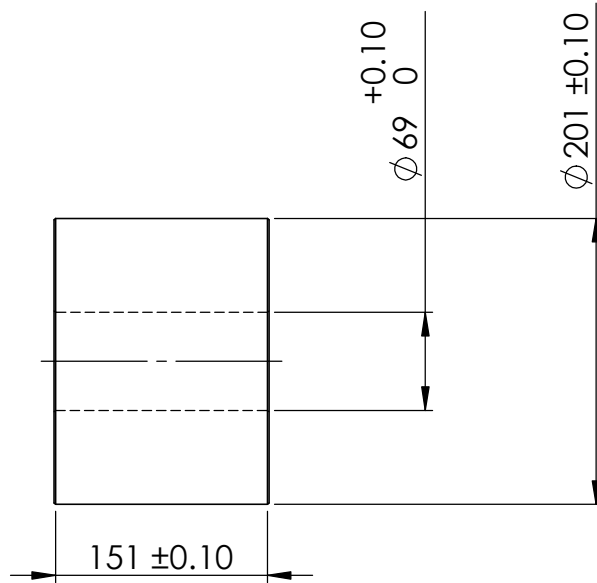
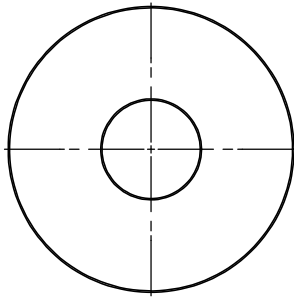
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SHEET 1 OF 1



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CHK'D				DWG NO. NFC/TR/25VMR	
APP'VD				A3	
MFG				MATERIAL: H-11 HARDNESS UP TO 235BHN	
Q.A.				SCALE:1:1	SHEET 1 OF 1
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BLANK SIZE:- OD205xTH155

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MFG					
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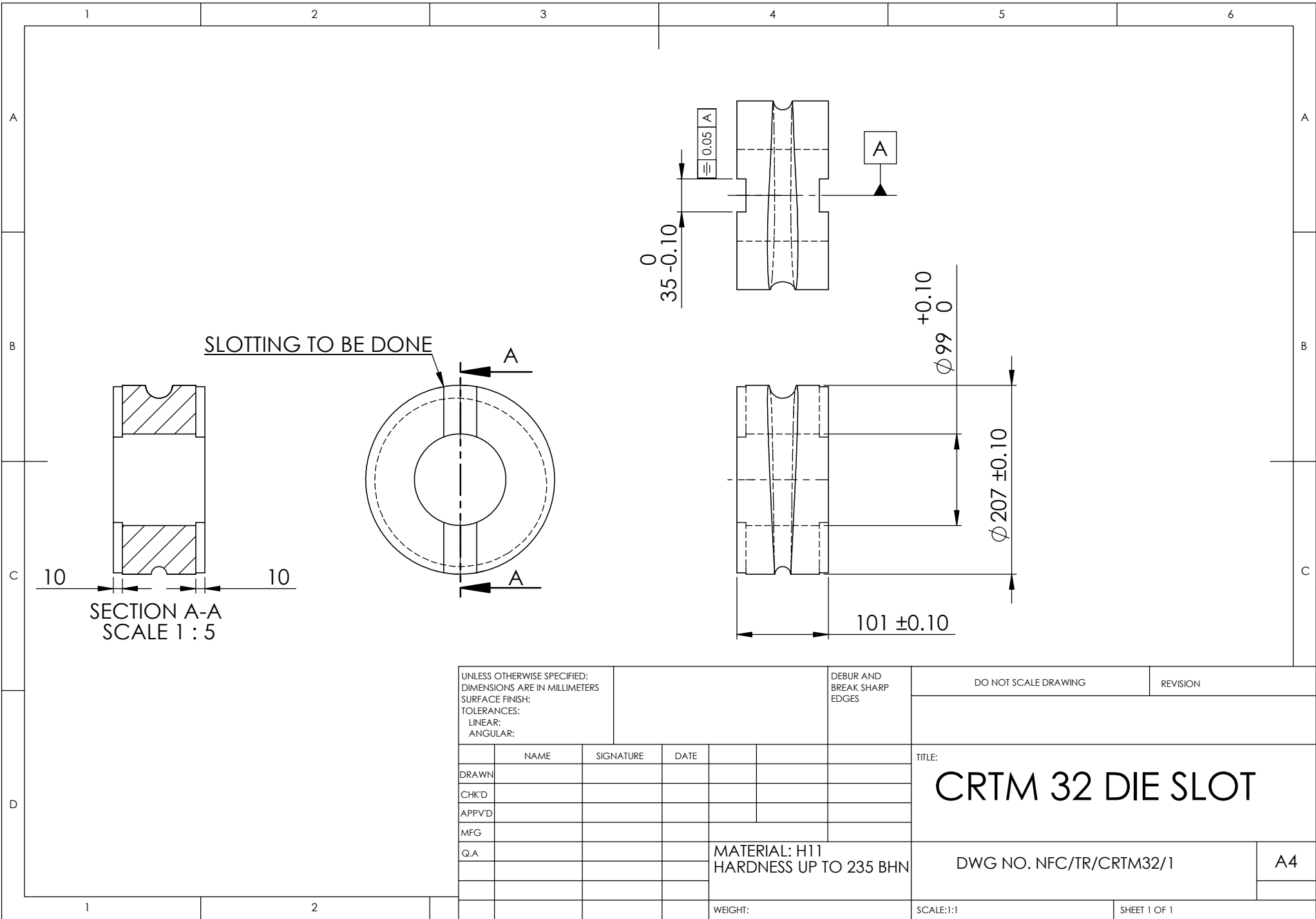
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DWG NO: **NFC/TR/CPM32**

A4

SCALE:1:1

SHEET 1 OF 1



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DEBUR AND
 BREAK SHARP
 EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE		
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APPV'D					
MFG					
Q.A					
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				WEIGHT:	

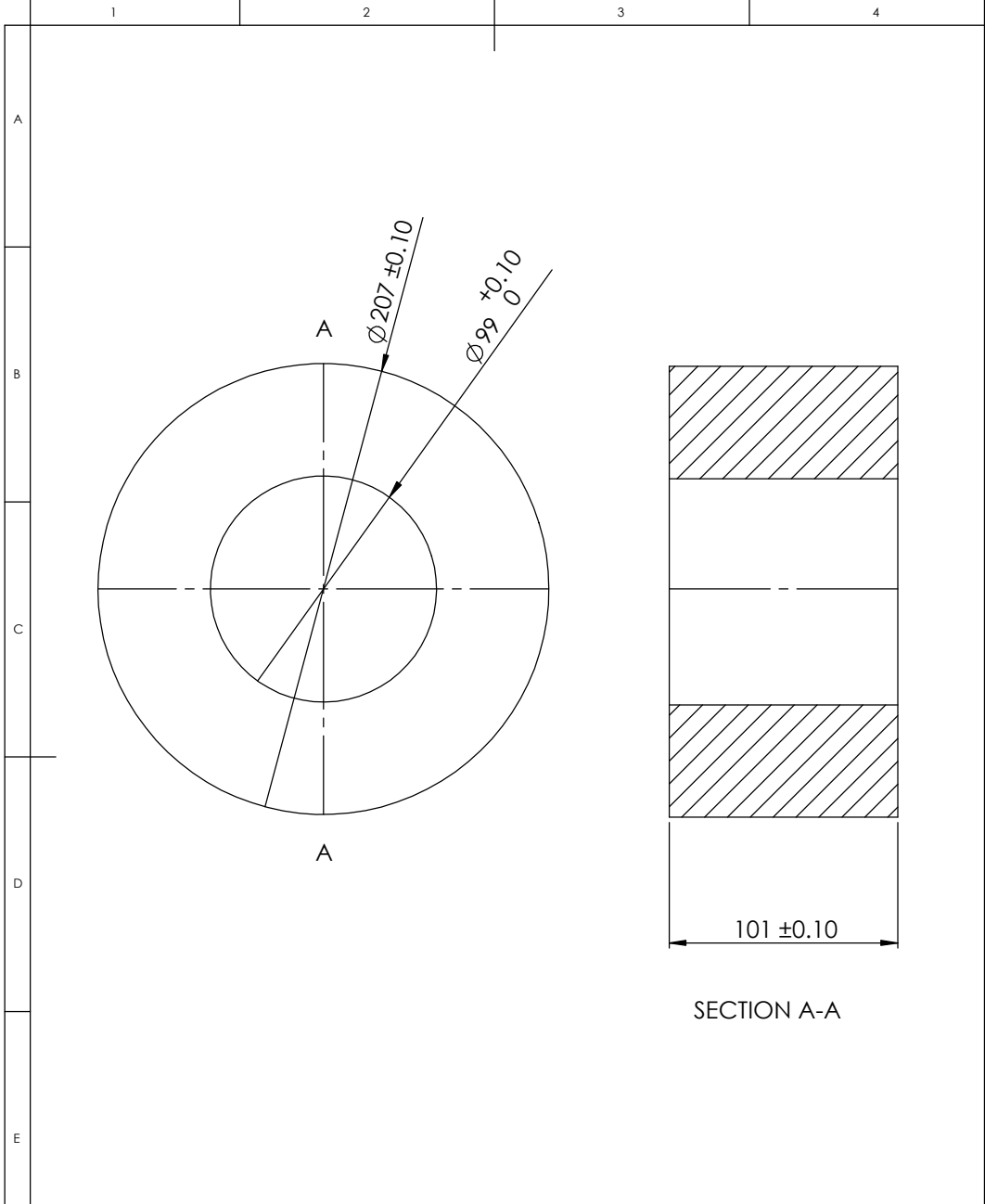
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CRTM 32 DIE SLOT

DWG NO. NFC/TR/CRTM32/1

A4

SCALE:1:1

SHEET 1 OF 1



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E

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C

B

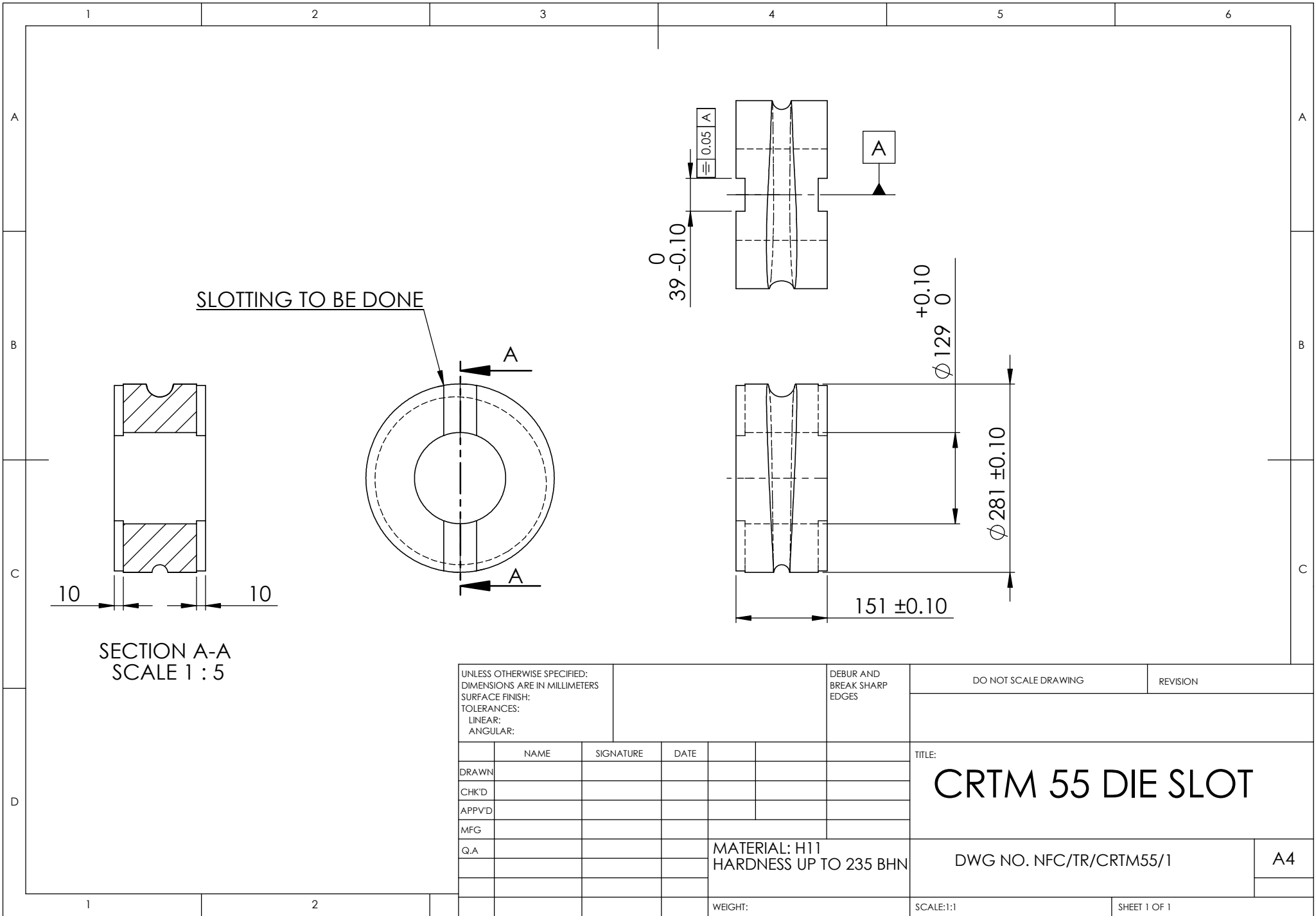
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SECTION A-A
SCALE 1 : 5

SLOTING TO BE DONE

UNLESS OTHERWISE SPECIFIED:
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TOLERANCES:
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DEBUR AND
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DO NOT SCALE DRAWING

REVISION

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MFG					
Q.A					
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				WEIGHT:	

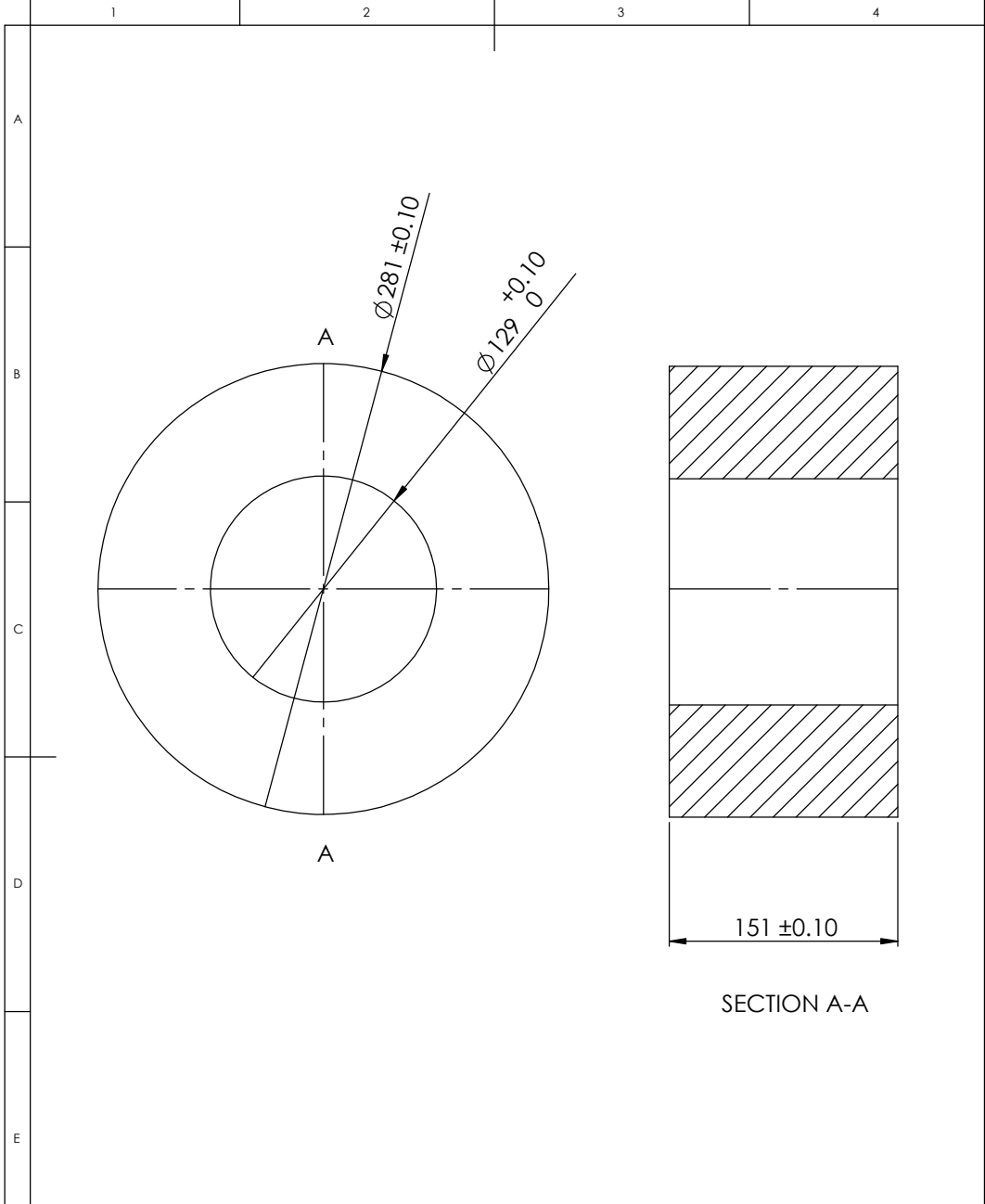
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CRTM 55 DIE SLOT

DWG NO. NFC/TR/CRTM55/1

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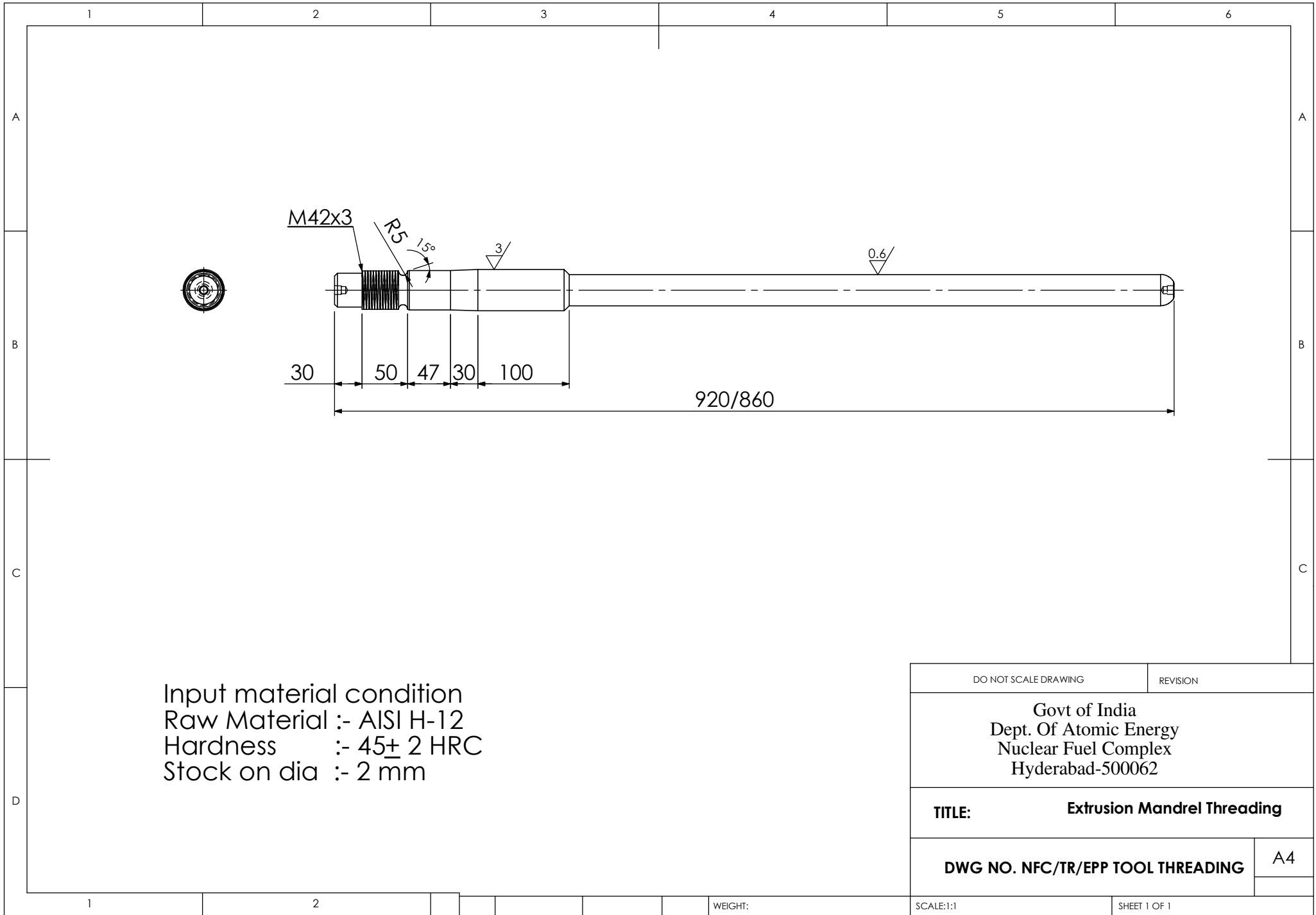
SHEET 1 OF 1



SECTION A-A

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: 1.6 Ra TOLERANCES: ±0.1		BLANK SIZE : OD 285x ID125xTHICKNESS160		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
						GOVT OF INDIA DEPARTMENT OF ATOMIC ENERGY NUCLEAR FUEL COMPLEX HYDERABAD-500062			
DRAWN		SIGNATURE		DATE		TITLE: CRTM 55 DIE ROUGHING			
CHK'D									
APPVD									
MFG									
Q.A						MATERIAL: H-11 HARDNESS UP TO 235BHN		DWG NO. NFC/TR/CRTM 55	
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								SHEET 1 OF 1	

A4

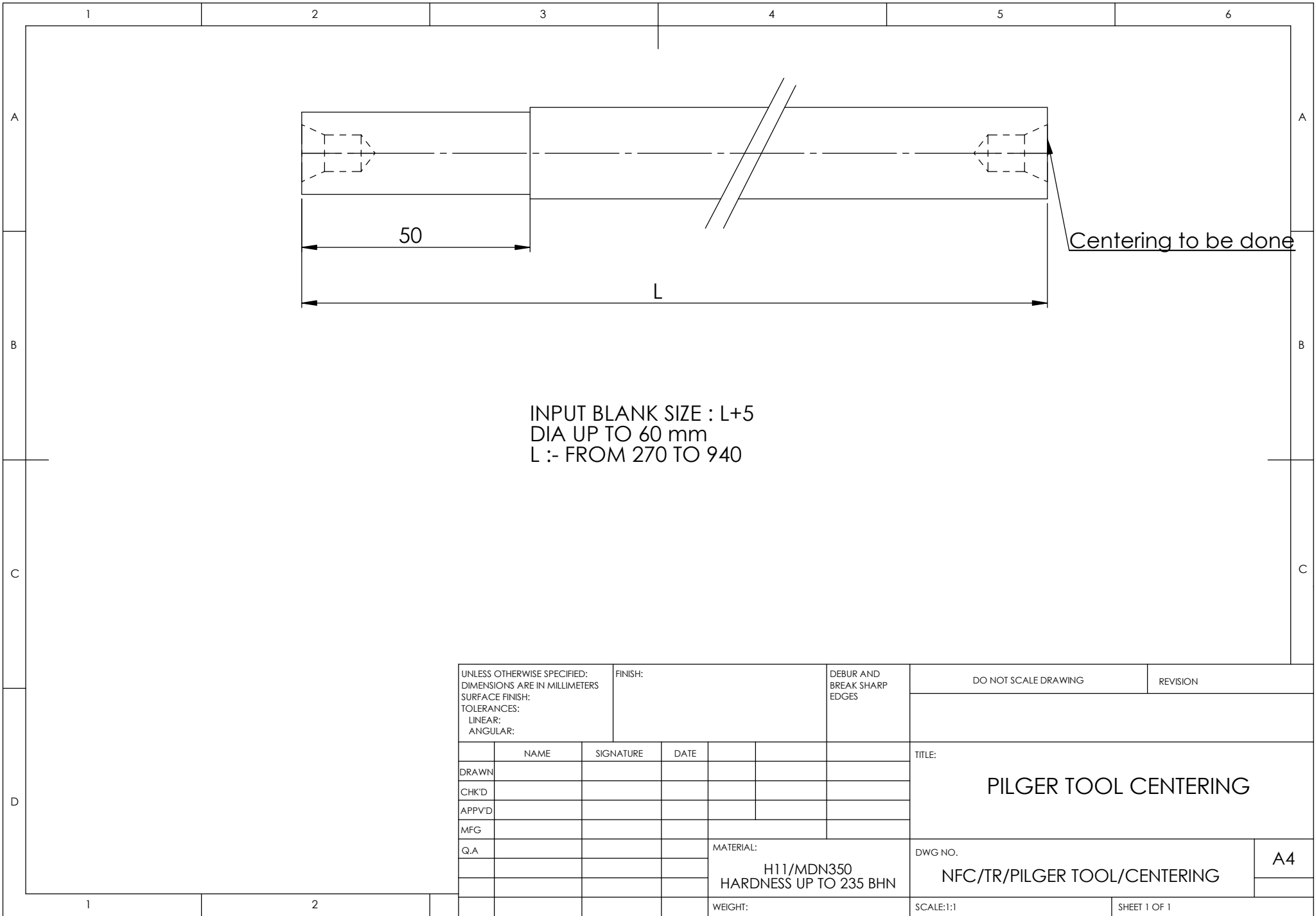


Input material condition
 Raw Material :- AISI H-12
 Hardness :- 45± 2 HRC
 Stock on dia :- 2 mm

DO NOT SCALE DRAWING	REVISION
Govt of India Dept. Of Atomic Energy Nuclear Fuel Complex Hyderabad-500062	
TITLE: Extrusion Mandrel Threading	
DWG NO. NFC/TR/EPP TOOL THREADING	
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WEIGHT:

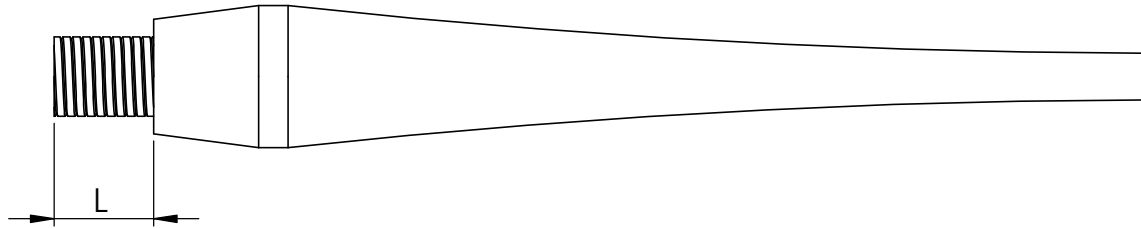
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INPUT BLANK SIZE : L+5
 DIA UP TO 60 mm
 L :- FROM 270 TO 940

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								TITLE: PILGER TOOL CENTERING					
DRAWN		NAME		SIGNATURE		DATE							
CHK'D													
APPV'D													
MFG													
Q.A								MATERIAL: H11/MDN350 HARDNESS UP TO 235 BHN		DWG NO. NFC/TR/PILGER TOOL/CENTERING			
								WEIGHT:		SCALE:1:1			
										SHEET 1 OF 1			

A4



PILGER MILL	THREADING LENGTH (L)
25VMR	25
50VMR	37
75VMR	37
CRTM15_30	30
CRTM32	30
CRTM55 (630)	35
CRTM55 (670)	60
CPM32	35
CRTM65	40

THREAD SIZE :
M8 TO M22

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								A4			
								WEIGHT:			