

**Government of India**  
**Department of Atomic Energy**  
**Nuclear Fuel Complex**  
Maintenance (STP & TRTP )

**NOTICE INVITING TENDER**

Tender No. : NFC/MSTP/(97)/NIT/2017/01

Date: 18/11/2017

To

M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

On behalf of the President of India, sealed item rated tenders are invited from competent and well experienced contractors for the following work on works contract basis.

**1) Name of Work :** Works contract for preventive maintenance of machine tools of TRTP & Maint. Machine Shop and other related works

**2) Scope:** As per annexure – I

**3) Duration of Contract :** Initially for 12 months from the date of commencement of work.(But the work order with a validity of 15 months duration will be released to accommodate the delays in works as machines can not be released for maintenance on time by respective production departments all the time). Further it may be extended for next 12 months without any escalation in price considering the performance and workmanship of contractor and his team members.

**4) Estimated cost : Rs. 24,25,000/-**

**5) Earnest Money Deposit:** Rs 48, 500/- (Rupees Forty eight thousand five hundred 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.

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 the entire offer period.

- 6) Issue of tender document : From 20-11-2017 to 30-11-2017**
- 7) Last date for submission of tender : On 06-12-2017 up to 14.00 hours.**
- 8) Date of opening the sealed tenders : On 06-12-2017 at 14.30 hours.**

**9) Cost of tender document:** Rs 500/- (Demand draft or banker's cheque payable at Hyderabad drawn in favor of "Pay & Accounts Officer, NFC")

Quotations are to be submitted strictly in 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 for the purpose at the office of Manager (MSTP), Nuclear Fuel Complex, ECIL Post, Hyderabad – 500062, **06-12-2017** 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.

Tender document issued to the contractor is non transferable.

Manager Maint.(STP & TRTP)  
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 honored 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

**Terms and Conditions of NIT No. : NFC/MSTP/(97)/NIT/2017/01**

- 1) The contractor will be completely responsible for the job. The contractor shall deploy sufficient man power required for completion of the work. He shall deploy highly skilled fitters/qualified technicians (ITI : Fitter - capable to do repair work, overhauling), machinists (ITI : Machinist - capable of operating milling, power hacksaw, drilling & slotting machines), turners (ITI : Turner - capable of operating M/s HMT make NH26 & L 45 lathes), skilled persons having experience in maintenance/preventive maintenance of machinery. The contractor shall ensure to authorize a competent person to supervise the job (a diploma holder in Mechanical Engineering) who shall fully be responsible for carrying out the jobs properly & safely. Authorization shall be furnished in writing. The contractor shall deploy only those qualified manpower who have prior experience in the works as brought out in the scope of work.
- 2) No child labour should be engaged.
- 3) Contract labour are to be engaged in General Shift and in case of need will be continued in II shift for attending emergency works.
- 4) The workers engaged by the contractor should wear uniform which is distinct from NFC uniform. Safety shoes and other PPE as required by the job 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. The contractor shall also give an undertaking that he shall bear all the expenses towards medical treatment incase of any accident to his personal while working.
- 5) The Contractor must follow all Labor 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](mailto:wo@nfc.gov.in) on any working day during office hours.
- 6) Wages are to be paid as per Minimum Wages Act, circulated by RLC (C) from time to time.
- 7) 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 in favour of "Pay and Accounts Officer, NFC" payable at Hyderabad. Offers without EMD will be summarily rejected.
- 8) Certificate from Officer-in-Charge at NFC regarding payment of minimum wages to the contract labour is to be enclosed along with the claim.
- 9) The contractor shall produce necessary police verification certificates from the local police station for the manpower being engaged for the purpose.

- 10) Valid Medical fitness certificate from at least an MBBS doctor for the workers engaged shall be submitted. He will also submit height passes or any other documents as required by NFC. 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.
- 11) The quoted value shall be exclusive of ESI, EPF and inclusive of GST and any other mandatory duties and levies of the Government. The payment towards ESI & EPF will be released against submission of documentary evidence towards payment of ESI, EPF to the concerned authorities.
- 12) 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.
- 13) Performance Guarantee @5% of Work Order value shall be submitted within 10 days from the date of issue of letter of acceptance or before the commencement of work which ever is earlier in the form of Fixed Deposit Receipt or Demand Draft or Bank Guarantee. (In case Bank Guarantee is furnished, it shall be valid up to 14 months plus claim period of 6 months) Extension of time for submission of Performance guarantee at the request of the contractor shall be charged @ 0.1% per day of performance guarantee amount. If the performance guarantee is not submitted within the extended time, the EMD submitted shall be forfeited.
- 14) In case of non-submission of Performance Guarantee within prescribed/extended time, the Earnest Money Deposit submitted will be forfeited.
- 15) Security Deposit @ 2.5% of the Work Order Value shall be recovered from Running Account 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.
- 16) Income tax and GST as applicable at source shall be deducted from the payments made. Non-submission of PAN or incorrect PAN No. attracts Income tax @20% on the gross bill. Contractor shall furnish his PAN No. and bank details along with a xerox copy of the same duly countersigned by him.
- 17) 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 Competent Authority. In this works contract, payment will be made bi-monthly for the works completed.
- 18) Offers received will be evaluated based on the total cost quoted exclusive of EPF, ESI and inclusive of all taxes.
- 19) The offer should be kept valid for a period of three months from the date of opening of tender.
- 20) Incomplete and conditional tenders shall be rejected. However unconditional rebates are acceptable.

- 21) Contractors shall quote the rates both in words and figures.
- 22) In case there is variation between the rates in figures and words, the rate which corresponds to amount worked out by the contractor shall be taken as correct.
- 23) 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.
- 24) 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.
- 25) Contractor shall sign each page of the tender document along with the Schedule of quantities & Rates.
- 26) 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 Performance Guarantee absolutely.
- 27) The contractor shall ensure that labour deployed for the contract would confine themselves to their respective places of work and not indulge in activities that would be harmful to NFC.
- 28) NFC reserves right to accept or reject any quotation, either completely or partly, without giving any reasons.
- 29) 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. NFC reserves right to ask the contractor for replacement of any of their workman for any reason such as unruly behavior, lack of integrity or lack of workmanship.
- 30) Before quoting, the contractor may visit NFC for assessment of work with prior permission of Manager (MSTP). He may contact at 040 - 27184453 / 27184061. Email : krram@nfc.gov.in & dvsr@nfc.gov.in
- 31) 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.
- 32) 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.
- 33) The detailed description of work given in Annexure I is in detail and quite extensive. But it is not explicit. Hence, the contractor is obliged to carry out any other minor work which is required to fulfill the objective of the work order without addition of cost.

34) Contractor will be completely responsible for the job and shall deploy qualified manpower.

35) Tenders will be issued to eligible contractors provided they produce definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority of having satisfactorily completed similar works in last seven years of magnitude specified below :

Criteria of eligibility for issue of tender documents

- One similar work not less than 80% of estimated cost or two similar works not less than 60% of estimated cost or three similar works not less than 40% of estimated cost
- Contractor shall submit solvency certificate @40% of estimated cost from any schedule bank of financial standing taken within one year.
- Contractor should have minimum three years experience in the similar works in govt./reputed organizations. The details of experience should be submitted along with the offer.
- Copy of PAN Card and GST Registration Certificate.

36) The contractor shall submit duly filled in Form-C, which is enclosed along with tender.

## ANNEXURE - I

**Tender No. : NFC/MSTP/(97)/NIT/2017-01**

### **Detailed Description of Work :**

**(A)** Cleaning, minor repair works & preventive maintenance of 68 machine tools/units as detailed below -

(1) Machine tools and heat treatment facilities of TRTP, (2) UT testing units - Tactic and EEC of QA(STP), (3) Machine tools and testing equipment of QA (MI & MT), and (4) machine tools of Maintenance Machine Shop.

The list of the machines is attached herewith separately. Also, it is indicative only and may vary from time to time depending up on the addition of new machines.

**(B)** Fabrication/machining of the parts using existing lathe/milling/slotting/shaping/drilling machines located at Maintenance Machine Shop.

Typical works to be carried out are listed below.

- 1.1. Getting cotton waste and spares from local stores. If not available, to arrange for the same from Tube plant stores.
- 1.2. Cleaning of the subassemblies of machines/units in TRTP, QA (STP), QA (MI & MT), BBTP Canteen and Maintenance Machine Shop premises from oil, scrap and foreign material before dismantling of the machine.
- 1.3. Helping in dismantling of subassemblies during breakdown maintenance. Shifting of dismantled subassemblies to the maintenance area. Cleaning and dismantling of parts using proper tools.
- 1.4. Operating the EOT crane, if needed, during mobilization of heavy materials.
- 1.5. Removing oils from tanks and containers on machines.
- 1.6. Helping in assembling back the subassemblies after replacement of worn out / damaged items like bearings, seals, couplings, shafts, bellows, gaskets etc..
- 1.7. Carrying out minor maintenance works on above mentioned machines/units like arresting of oil leakages, tightening of belt drives, keeping of drive guards in proper location, topping up and replacing of lubrication and hydraulic oils, attending to malfunctioning minor subassemblies, replacement/maintenance of air, oil and water lines etc..
- 1.8. Carrying out minor maintenance works on UT machines like pinch roller belts & shafts replacement, pinch rollers replacement, lubrication oils top up and replacement, minor works related to pneumatic lines etc.

- 1.9 Carry out the works as per the PPM schedule/allotment given by our Engineers. The detailed check list will be issued at the time of execution of the job.
- 1.10 Assisting in stock keeping works of various shop floor maintenance tools and subassemblies of machine tools etc..
- 1.11 House keeping works of the maintenance and other allied maintenance areas
- 1.12 Bringing different oil drums from tube plant stores.
- 1.13 Keeping those barrels at oil bay and ensuring that respective barrel pumps are placed in drums.
- 1.14 Maintaining the oil bay in clean condition. Mopping of oil spillages, if any.
- 1.15 Keeping the removed oil/old used oil in old drums at oil bay and handing over to tube plant stores as and when necessary.
- 1.16 Operation of milling/drilling/slotting machines and center lathes of maintenance machine shop to fabricate parts/items of work orders received at maintenance machine shop.

**Note** :

- 1) Before commencement of work, all contract workmen will be trained in various aspects of safety and procedures to be followed for safe handling of zircaloy items.
- 2) The contractor should shall engage his technicians for any other work other than the above mentioned works, but required to fulfill the objective of the work order.

Manager Maint.(STP & TRTP)  
For & on behalf of the President of India



## Nuclear Fuel Complex

Information required to be furnished by the contractor along with the tender documents / quotation. (Tender no: NFC/MSTP/(97)/NIT/2017/01)

1. Full name and address of the contractor :

2. Details of experience of work experience:

Sl no	Description of the work	Name of the organization	Work Order value	Period From---To	Manpower engaged

3. If engaged 20 or more labours in the past, furnish the details of license, obtained.(Copy enclosed) :

4. Availability of labour : Supervisor Highly-Skilled Skilled Semiskilled Unskilled

5. No. of labours he proposed to employ for this job if, any. :

I/We hereby undertake to obtain license from RLC(C), Hyderabad before commencement of work in case the no. of labourer employed are twenty or more were employed on any single day of the proceeding 24 months as contract labour and follow all the requirements as specified in contract labour (R&A) Act 1970 and I/We shall abide by the decisions of principal employer/ RLC(C) as the case may be in case the work is awarded to me/us.

I/We shall hereby undertake to abide by the safety Regulations as laid down by NFC and take all safety precautions to safeguard all men, material and machinery as may be demanded of me/us in writing by the concerned In-charge of the work assigned to me/us.

I/we also hereby undertake to furnish the personal data of the labourers proposed to be employed by me/us in the prescribed form along with the photographs (in-duplicate) before commencement of the work inside the NFC premises in case the work is awarded to me/us.

Signature of the contractor  
(with seal) & Date:

Ref no.

From:

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To :

Manager

Maint. (STP & TRTP)

Nuclear Fuel Complex

ECIL (PO)

Hyderabad - 500062

**QUOTATION**

Sub : Works contract for preventive maintenance of machine tools of TRTP & Maint. Machine Shop and other related works :

Ref : NFC/MSTP /(97)/NIT/2017/01

Dear Sir,

In response to your notice inviting tenders, we hereby submit our quotation for carrying out the following works:

Sl. No.	Activity	Units	Qty.	Unit Rate (in words and figures) (Rs)	Total cost (approx) (Rs.)
1	Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of center lathes.	Nos.	64		

	1.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	1.2	Dismantling/inspection of all parts of the subassembly.				
	1.3	Minor repairs and replacement of worn-out parts.				
	1.4	Final assembly and lubrication of parts.				
	1.5	Checking of alignment and trial runs.				
2		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of milling machines.</b>	<b>Nos.</b>	24		
	2.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	2.2	Dismantling/inspection of all parts of the subassembly.				
	2.3	Minor repairs and replacement of worn-out parts.				
	2.4	Final assembly and lubrication of parts.				
	2.5	Checking of alignment and trial runs.				
3		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of grinding machines.</b>	<b>Nos.</b>	56		
	3.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	3.2	Dismantling/inspection of all parts of the subassembly.				
	3.3	Minor repairs and replacement of worn-out parts.				
	3.4	Final assembly and lubrication of parts.				
	3.5	Checking of alignment and trial runs.				
4		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of shaping machines.</b>	<b>Nos.</b>	6		
	4.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	4.2	Dismantling/inspection of all parts of the subassembly.				
	4.3	Minor repairs and replacement of worn-out parts.				
	4.4	Final assembly and lubrication of parts.				

	4.5	Checking of alignment and trial runs.				
5		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of CNC machines.</b>	<b>Nos.</b>	24		
	5.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	5.2	Dismantling/inspection of all parts of the subassembly.				
	5.3	Minor repairs and replacement of worn-out parts.				
	5.4	Final assembly and lubrication of parts.				
	5.5	Checking of alignment and trial runs.				
6		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of radial drilling machines.</b>	<b>Nos.</b>	6		
	6.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	6.2	Dismantling/inspection of all parts of the subassembly.				
	6.3	Minor repairs and replacement of worn-out parts.				
	6.4	Final assembly and lubrication of parts.				
	6.5	Checking of alignment and trial runs.				
7		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of major machines - KB 47, KB 65 and VTL</b>	<b>Nos.</b>	24		
	7.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	7.2	Dismantling/inspection of all parts of the subassembly.				
	7.3	Minor repairs and replacement of worn-out parts.				
	7.4	Final assembly and lubrication of parts.				
	7.5	Checking of alignment and trial runs.				
8		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of minor machines.</b>	<b>Nos.</b>	12		
	8.1	Complete cleaning and dismantling of malfunctioning subassembly.				

	8.2	Dismantling/inspection of all parts of the subassembly.				
	8.3	Minor repairs and replacement of worn-out parts.				
	8.4	Final assembly and lubrication of parts.				
	8.5	Checking of alignment and trial runs.				
9		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of miscellaneous machines.</b>	<b>Nos.</b>	18		
	9.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	9.2	Dismantling/inspection of all parts of the subassembly.				
	9.3	Minor repairs and replacement of worn-out parts.				
	9.4	Final assembly and lubrication of parts.				
	9.5	Checking of alignment and trial runs.				
10		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of EOT Cranes - 10/3 T and 5T</b>	<b>Nos.</b>	10		
	10.1	Complete cleaning and dismantling of malfunctioning subassembly.				
	10.2	Dismantling/inspection of all parts of the subassembly.				
	10.3	Minor repairs and replacement of worn-out parts.				
	10.4	Final assembly and lubrication of parts.				
	10.5	Hoist brake adjustment, wire rope clamp check up, hook latch check etc..				
	10.6	Greasing of wire rope and Crane wheel bearings				
	10.7	LT & CT gear box oil draining, cleaning and inspection of parts for any damage & wear out and replacement of needed parts.				
	10.7	Checking of alignment and trial runs.				
11		<b>Cleaning, Lubrication and hydraulic oils top up/ replacement, preventive checks and minor repairs of UT machines.</b>	<b>Nos.</b>	72		
	11.1	Complete cleaning and dismantling of malfunctioning subassembly.				

	11.2	Dismantling/inspection of all parts of the subassembly.				
	11.3	Minor repairs and replacement of worn-out parts.				
	11.4	Final assembly and lubrication of parts.				
	11.5	Checking of alignment and trial runs.				
	11.6	Replacement of pinch rollers, muff couplings, drive shafts & pulleys and drive belts				
	11.7	Replacing drive timing belts				
	11.8	Works related with hydro-pneumatic and pneumatic cylinders like oil top up, air bleeding, pneumatic and hydraulic pipes replacement etc.				
12		<b>Preventive checks and minor repairs of furnaces, cooling water, vacuum and air lines</b> <b>Vacuum furnace - 1 No.</b> <b>Heat treatment furnace - 1 No.</b> <b>Bell mouth furnace - 1 No.</b>	<b>Nos.</b>	6		
	12.1	Complete cleaning and dismounting of malfunctioning subassembly.				
	12.2	Dismantling/inspection of all parts of the subassembly.				
	12.3	Minor repairs and replacement of worn-out parts.				
	12.4	Final assembly and lubrication of parts.				
	12.5	Checking of alignment and trial runs.				
	12.6	Dechocking of cooling water lines & replacement of damaged/corroded cooling water pipe lines including welding work				
	12.7	Replacement of damaged vacuum and air lines including welding work				
	12.8	Oil & seals replacement of Vacuum pumps.				
	12.9	Greasing and preventive checks of valves, feed throughs, blowers/fans etc..				
13		For operating one center lathe at maintenance machine shop	<b>Nos.</b>	280		
14		For operating two of the machines among two milling machines, one slotting machine, one drilling machine at maintenance machine shop	<b>Nos.</b>	560		



The following xerox copies of the documents are also attached herewith:

1. ESI registration
2. PF registration
3. PAN card
4. GST Registration
4. Solvency certificate from the banker
5. Experience certificate of similar works.

Yours faithfully

CONTRACTOR  
(Sign with seal)

Tender document has been issued to	
M/s	
on receipt of Rs.	/- (vide DD
No.	Dated )
towards cost of tender document.	



**List of the Machine Tools at TRTP, Maintenance Machine Shop and QA section at HRD**

*(Part of Annexure I - as stated in Page 7/12 of NIT)*

<b>(1) Lathe machines -</b>	Nos.	<b>(5) CNC machines -</b>	Nos.
S pilote	1	SBCNC 30 (New) - HMT make	1
L 50	1	BMV 60 - BFW make	1
L 45	1	STC 25 - old one - HMT make	1
NH26 (polishing)	1	SBCNC 30 - old one - HMT make	1
NH 26	1	Total	<b>4</b>
NH 22	1		
NH 26 ( Samples)	1	<b>(6) Radial drilling machines -</b>	
Geedee (new)	1	TRTP	1
NH26 (Stores)	1	MMS	1
NH26 (Jagjeevan)	1	Total	<b>2</b>
NH 26 ( Rammoorthy)	1		
L 45 ( TRTP)	1	<b>(7) Major machines -</b>	
NH 26 ( Parasuram)	1	KB 47	1
NH 26 new - TRTP	1	KB 65	1
Geedee (HRD)	1	VTL	1
Baby Lathe (MMS)	1	Total	<b>3</b>
Total	<b>16</b>		
		<b>(8) Minor machines -</b>	
<b>(2) Milling machines -</b>		PG (TRTP)	1
FN 3U (TRTP)	1	PG (MMS)	1
FN2U (TRTP)	1	Sample m/c	1
FN2U (MMS)	1	CNC room Hoist	1
FN2U(MMS)	1	Total	<b>4</b>
Size1 ( BFW Old - HRD)	1		
Size1 ( BFW New - HRD)	1	<b>(9) Other Misc. machines -</b>	
Total	<b>6</b>	Honing machine	1
		Band saw ( raw material cutting)	1
<b>(3) Grinding machines -</b>		Slotting machine (MMS)	1
SGM (new)	1	Power hacksaw (MMS)	1
C/L grinding	1	Tensile testing m/c (HRD)	1
K - 150	1	Sample grinding machine - Big(HRD)	1
MKH	1	2 T Hoists	1
MK	1	Gag press ( Heat treatment)	1
G 22	1	Hy. Press ( MMS)	1
G 17	1	Total	<b>9</b>
T & C	1		
T & C	2	<b>(10) EOT Cranes</b>	
SFW 1	1	10/3 T Crane	1
SFW 1	1	5T Crane	1
K 130	1	Total	<b>2</b>
K 130	1		
Total	<b>14</b>		

<b>(4) Shaping machines -</b>			<b>(11) Furnaces</b>	
TRTP Shaping machine 1	1		Heat treatment	1
MMS Shaping machine	1		Vacuum	1
TRTP Shaping machine 2	1		Bellmouth	1
Total	<b>3</b>		Total	<b>3</b>
			<b>(12) UT machines</b>	
			Tactic machine	1
			EEC machine	1
			Total	<b>2</b>

<b>Machine tools group wise</b>	<b>Nos.</b>
(01) Lathes	16
(02) Milling machines	6
(03) Grinding machines	14
(04) Shaping machines	3
(05) CNC machines	4
(06) Radial Drilling machines	2
(07) Major machines	3
(08) Minor machines	4
(09) Other Misc. machines	9
(10) EOT Cranes	2
(11) Furnaces	3
(12) UT Machines	2
Total	68