

दूरभाष :
TELEPHONE :
तार : बार्क-मुंबई, चेम्बुर.
TELEGRAMS: BARC-MUMBAI, CHEMBUR.
टेलिक्स : ०११-६१०१७/०११-६१०२२ बार्क ईन
TELEX: 011-61017/011-61022 BARC IN
फैक्स संख्या : ११-२२-५५०५१५१
FAX NUMBER: 91-22-5505151



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

भाभा परमाणु अनुसंधान केन्द्र
BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

Ref: RRMD/TR-1/TN- 15 /2022

Date: 18/10/2022

TENDER NOTICE

Sir,

**Sub: Annual Maintenance Contract of Machines of Dhruva & Cirus Workshop
for the Year 2022 – 2023**

Sealed quotations in duplicate are invited by **speed post only** for and on behalf of the President of India for Annual maintenance contract (AMC) of **Machines of Dhruva & Cirus Workshop for the Year 2022 – 2023** as per scope of work detailed below. Your offer should reach this office latest by **15.00 hrs. on 11.11.2022**, super scribes the “**QUOTATION**” and our **tender reference** on the envelope. The tender will be opened at **15.00 Hrs. on 15.11.2022**. The quotation should be in lump sum amount inclusive of taxes, if any.

1.0 Scope of work

The scope of work is given below.

1.1 Work related to preventive /breakdown maintenance on machines:

- Machine servicing/preventive maintenance as per list attached will be done quarterly (Four times a year).
- Preventive Maintenance will be carried out as per checklist attached.
- Breakdowns will be attended next day with free of cost labour.
- All the spares will be provided by BARC.
- *The contractor has to provide personnel for the above scope of work on as required basis.*

1.2 Work related to day to day activities:

- Up keeping of machines like oiling & coolant change/top-up of machines, cleaning of machines, job handling inside workshop, issue of material from stores & transportation/handling up to workshop, removal/collection/disposal of metal chips/cut metal scrap etc. of both the workshops on daily basis.
- *The contractor has to provide two semi-skilled laborers for the above scope of work for all the working days (22 working days in a month x 12 months) throughout the year. The laborers will be deployed for the job on daily basis. Their attendance will be recorded and any absenteeism will be compensated by extension of service period as decided by EIC.*

2.0 List of Machines

CIRUS WORKSHOP MACHINES

S. No	Machine description	Number
1	HMT H-22 X 3M long LATHE MACHINE	1
2	HMT H-22 LATHE MACHINE	2
3	HMT LB - 17 LATHE MACHINE	1
4	DO-ALL BANDSAW MACHINE	1
5	INVICTA make SHAPING MACHINE	1
6	KITCHEN & WADE RADIAL DRILLING MACHINE	1
7	HACKSAW MACHINE	1
8	HYDRAULIC PRESS	1
9	HMT-MILING MACHINE	1

DHRUVA WORKSHOP MACHINES

S. No	Machine description	Number
10	COOPER Make SHAPING MACHINE	1
11	HMT LB-25 LATHE MACHINE	1
12	KIRLOSKAR RL-R3 LATHE MACHINE :	2
13	HMT LB-20 LATHE MACHINE	1

14	WILIAM JACKS & Co. DRILLING MACHINE	1
15	BATLIBOI MILLING MACHINE.	1
16	PRAGA TOOL & CUTTER, GRINDING MACHINE	1
17	ACCUMAX MAKE PILLAR DRILLING MACHINE	1
18	BIG BANDSAW MACHINE	1
19	SMALL BENCH DRILLING MACHINE	1
20	JEW POWER HACKSAW	1
21	DO-ALL BANDSAW MACHINE	1
22	SMALL BANDSAW MACHINE	1
23	HYDRAULIC PRESS	1
24	BENCH GRINDER	6
	TOTAL	31 (THIRTY ONE)

3.0 Contractor will provide the following.

Labor, tools, all consumable materials like gaskets, cleaning chemicals, grease, teflon tapes or any others shall be provided by the contractor.

The contractor shall deploy a team comprising of adequate number of skilled mechanics, skilled & unskilled **laborer** which is required for work related to preventive /breakdown maintenance on machines servicing on all the BARC working days and additionally on BARC off days in case of emergency break down requirements as directed by EIC.

The contractor has to provide two semi-skilled laborers for work related to day to day activities for all the working days (22 working days in a month x 12 months) throughout the year. The laborers will be deployed for the job on daily basis.

Electrically operated tools & appliances brought by the contractor for the job shall (each of them) have the certification of licensed electrician.

4.0 Material to be supplied by BARC:

- 1) Water and electricity (220, 50 Hz) for lighting will be provided at one point basis.
- 2) Storage drums for collecting the scrap materials etc. shall be provided by the department.

3) All the spares will be provided by BARC.

5.0 Safety:

- a) All the persons working at site shall be physically and mentally fit.
- b) All applicable industrial & safety precautions shall be taken by the contractor in respect of their personnel working at site.
- c) Contractor personnel shall also abide by the radiation safety precautions as directed by the Health physicist of the site.
- d) Above work calls for strict adherence to safe work practice. BARC shall not be responsible for any damage, injury, death etc of any contractor's personnel under any circumstances. No compensation claim shall be admitted in this regard.

6.0 Security:

- a) Security instructions should be strictly adhered to.
- b) The contractor shall arrange Police verification certificates for the group of persons engaged by him for the above work as per the existing procedure at BARC.
- c) All the personnel employed by the contractor will follow strict instruction given by RHC of reactor complex.

7.0 Payment Terms:

- 7.1 As servicing and P.M check of 31 machines will be done quarterly (four times a year). Payment will be released on **quarterly** basis after satisfactory completion of the above activities, submission of report of completed jobs and duly certified by EIC.
- 7.2 Bill should be submitted with advanced stamped receipt and bank details.
- 7.3 No advance payment is admissible.
- 7.4 Income tax, surcharge / service tax on income tax, works contract tax or any other applicable taxes will be deducted at the prevailing rates.

8.0 CONFIDENTIALITY CLAUSES.

(i) Confidentiality :

No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as "**Proprietary**" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party.

This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by a party with equal force.

(ii) “Restricted information” categories under section 18 of the Atomic Energy Act, 1962 and “Official Secrets” under Section 5 of the Official Secrets Act, 1923 :-

Any contravention of the above mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.

(iii) Prohibition against use of BARC’s name without permission for publicity purposes :-

The contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC’s name for any publicity purpose through any public media like Press, Radio, T.V. or Internet without the prior written approval of BARC.

9.0 General:

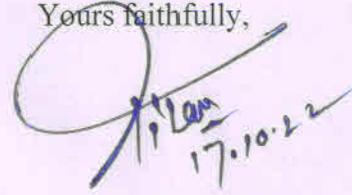
- 9.1 The names of your authorized representative at site to whom official instructions can be given may please be communicated.
- 9.2 The desirous bidders should contact S/Shri P K Dubey / P. Sanal Kumar on Tel no. 25594664 / 25594239 in one day advance for any clarification and visiting the site for getting acquainted with the job clearly before quoting their offer. The bidders who will quote without visiting the site may be rejected.
- 9.3 Please indicate whether any of your relatives are employed in BARC or you or any of your employees were employed in BARC or any other units of DAE.
- 9.4 All I-cards, temporary entry permits issued to the contractor / contractor’s personnel shall be surrendered after completion of work.
- 9.5 The quotation shall be given on vendor’s letter head and properly signed. The vendor shall provide the PAN no. and GST no. along with quotation. Sealed Quotation should be super scribed as “Annual Maintenance Contract of Machines of Dhruva & Cirus Workshop.” with reference number of this inquiry letter.
- 9.7 Only vendor having sufficient experience in this field shall submit the quotation. The vendor shall provide the proof of his experience in such jobs.
- 9.8 The quotation shall be valid for a period of 90 days from the bid due date.
- 9.9 BARC reserve the right to terminate the contract at any stage of execution of the contract, without assigning any reasons.
- 9.10 In case any extension in the job completion period is required, the vendor has to write to BARC giving proper justification for the delay & it should be approved by the competent authority.

10.0 Time:

The duration of the contract is 12 months from the date of commencement of work. Absenteeism from work is to be compensated by extension of service period as decided by EIC.

Encl: Checklist of Machine

Yours faithfully,



(Manoj Tilara)

Maint Supdt (Mech), RRMD

For and on behalf of the President of India

मनोज तिलारा / Manoj Tilara

अनुरक्षण अधीक्षक (यांत्रिक) / Maintenance Supdt. (Mechanical)
अनुसंधान रिजक्टर अनुरक्षण प्रभाग / RRMD
भाभा परमाणु अनुसंधान केंद्र / Bhabha Atomic Research Centre
भारत सरकार / Government of India
ट्रॉम्बे, मुंबई / Trombay, Mumbai - 400 085.

BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

PREVENTIVE MAINTENANCE CHEKLIST OF TOOL AND CUTTER GRINDERS AND BENCH GRINDERS

Model & Type:

Date: _____

Description:

Sr. No.	Service/Check Point	Status	Remarks
1.	Cleaning of Grinders		
2.	Gearing of Grinders		
3.	Coolant Change		
4.	Tightening of Grinding wheel nuts		
5.	Tightening of Belts/ replacement if necessary		
6.	Checking for Grinding wheels/ replacement if necessary		
7.	Dressing of Grinding wheels		
8.	Adjustment of supporting guides		
9.	Check/Tightening of loosen parts		
10.	Check/Tightening of foundation bolts		
11.	Trial run and checking for proper functioning		
12.	Remarks: 1. Wear in parts observed. 2. Replacement required. 3. Major/Minor repair required.		

Machine Checked by

Servicing done by

BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

PREVENTIVE MAINTENANCE CHECKLIST OF LATHE MACHINE

Model & Type: _____

Date: _____

Description: _____

Sr. No.	Service/Check Point	Status	Remarks
1.	Cleaning of Machine		
2.	Greasing and Oiling of Machine		
3.	Filling Hydraulic Oil, Gearbox Oil		
4.	Coolant Change		
5.	Adjustment of Wedges		
6.	Adjustment of Anal play of lead screw		
7.	Adjustment of Belt Tensions		
8.	Check/ Adjust belt, Pulley, Keys and Chain		
9.	Check/Rectification of Oil Leakages		
10.	Check Lubrication system functioning		
11.	Check Guards Fitted		
12.	Check/Tightening of Foundation bolts		
13.	Adjustment of Tailstock Centre		
14.	Trial run of machine 8r, checking for proper functioning of machine		
15.	Check/Tightening of Loosen parts		
	Remarks: 1. Wear in parts observed. 2. Replacement required. 3. Major/Minor repair required.		

Machine Checked by _____

Servicing done by _____

BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

PREVENTIVE MAINTENANCE CHECKLIST OF MILLING MACHINE

Model & Type:

Date: _____

Description:

Sr. No.	Service/Check Point	Status	Remarks
1.	Cleaning of Machine		
2.	Greasing and Oiling of Machine		
3.	Filling Gear Box and Lubrication Oil		
4.	Coolant Change		
5.	Adjustment of Wedges		
6.	Check for end stoppers		
7.	Check for functioning of limit switches		
8.	Check/Tightening of loosen parts		
9.	Check/Adjust belt, pulleys keys and chain		
10.	Check/Rectification of Oil leakages if any		
11.	Gearing, Oiling of Milling head		
12.	Check lubrication system functioning		
13.	Check Guards fitted		
14.	Adjustment of axial play of Table Lead Brew		
15.	Check/Tightening of Foundations bolts		
16.	Trial Run of Machine and Checking for proper functioning of machine		
	Remarks: 1. Wear in parts observed. 2. Replacement required. 3. Major/Minor repair required.		

Machine Checked by

Servicing done by

BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

PREVENTIVE MAINTENANCE CHECKLIST OF SHAPING MACHINE

Model & Type:

Date: _____

Description:

Sr. No.	Service/Check Point	Status	Remarks
1.	Cleaning of Machine		
2.	Gearing and Oiling of machine		
3.	Filling Hydraulic Oil, Gear Box		
4.	Adjustment of Wedges		
5.	Adjustment of axial play of table		
6.	Adjustment of Belt tension		
7.	Adjustment of Clutches if necessary		
8.	Check/Adjust belt, pulley, keys		
9.	Check/Rectification of oil leakages		
10.	Check Lubrication system functioning		
11.	Checking stroke adjustment system functioning properly		
12.	Checking quick return mechanism		
13.	Check/Tightening of loosen parts		
14.	Check guard fitted properly		
15.	Check/Tightening of foundation bolts		
16.	Trial run of machine and proper functioning of machine		
	Remarks: 1. Wear in parts observed. 2. Replacement required. 3. Major/Minor repair required.		

Machine Checked by

Servicing done by

BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

PREVENTIVE MAINTENANCE CHECKLIST OF DRILLING MACHINE

Model & Type:

Date: _____

Description:

Sr. No.	Service/Check Point	Status	Remarks
1.	Cleaning of Machine		
2.	Greasing and Oiling of Machine		
3.	Filling Gear Box & Lubrication Oil		
4.	Coolant Change		
5.	Adjustment of Keeper Plates		
6.	Check/Tightening of loosen parts		
7.	Check/Adjustment of Keys and Chains		
8.	Check/Rectification of Oil Leakages if any		
9.	Check Lubrication system functioning		
10.	Check/Arm 86 Drilling head clamps functioning		
11.	Check Guards Fitted properly		
12.	Check for Couplings of motor and Gear Box are in good condition		
13.	Check/Tightening of Foundation bolts		
14.	Trial Run of Machine and proper fun boning of machine		
	Remarks: 1. Wear in parts observed. 2. Replacement required. 3. Major/Minor repair required.		

Machine Checked by

Servicing done by

BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

PREVENTIVE MAINTENANCE CHECKLIST OF BANDSAW MACHINE

Model & Type:

Date: _____

Description:

Sr. No.	Service/Check Point	Status	Remarks
1.	Cleaning of Machine		
2.	Greasing and Oiling of machine		
3.	Filling Gear Box Oil		
4.	Coolant change		
5.	Adjustment of Wedges		
6.	Cleaning of Wheels		
7.	Check/Adjust Play, Backlash		
8.	Check/Adjust belt, pulleys keys and chain		
9.	Check/Tightening of loosen parts		
10.	Check/ Tightening of Belts		
11.	Check/ Rectification of it Leakages if any		
12.	Alignment of Bearing guides of Blades		
13.	Cleaning and alignment of Vice		
14.	Cleaning and alignment of Vice		
15.	Trial Run of Machine and Checking of machine for proper functioning		
	Remarks : 1. Wear in parts observed 2. Replacement required 3. Major/Minor repair required.		

Machine Checked by

Servicing done by

BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

PREVENTIVE MAINTENANCE CHECKLIST OF HYDRAULIC PRESS MACHINE

Model & Type:

Date: _____

Description:

Sr. No.	Service/Check Point	Status	Remarks
1.	Cleaning of Press Machine		
2.	Gearing and Oiling Press		
3.	Filling of Hydraulic Oil		
4.	Checking/Replacement of Wire Ropes if		
5.	Checking/Replacement Piston Cups if necessary		
6.	Checking/ Pressure gauge functioning		
7.	Check for leakages in hydraulic oil		
8.	Check for hydraulic tubes ferrules and nipples		
9.	Check/Job Plates are proper		
10.	Check/Functioning of table clamps & locks		
11.	Check/Non return valve functioning		
12.	Check/Tightening of Loosen Parts		
13.	Check/Tightening of Foundation bolts		
14.	Trial of Hydraulic Press, for functioning properly		
	Remarks: 1. Wear in parts observed. 2. Replacement required. 3. Major/Minor repair required.		

Machine Checked by

Servicing done by

BHABHA ATOMIC RESEARCH CENTRE

RESEARCH REACTOR MAINTENANCE DIVISION

PREVENTIVE MAINTENANCE CHEKLIST OF HACKSAW MACHINE

Model & Type:

Date: _____

Description:

Sr. No.	Service/Check Point	Status	Remarks
1.	Cleaning of Machine		
2.	Gearing and Oiling of machine		
3.	Coolant change		
4.	Filling Hydraulic Oil		
5.	Adjustment of keeper plates and wedges		
6.	Check/Tightening of loosen parts		
7.	Check/Tightening of Belts, replacement of belts if necessary		
8.	Checking feed and auto release		
9.	Check rectification of oil leakages		
10.	Check guards fitted properly		
11.	Check coolant motor functioning		
12.	Adjustment of vice for straight cutting		
13.	Check/Tightening of foundation bolts		
14.	Trial run of machine for proper functioning		
	Remarks: 1. Wear in parts observed. 2. Replacement required. 3. Major/Minor repair required.		

Machine Checked by

Servicing done by