

दूरभाष :  
TELEPHONE : 5505050/00/10,55631: EXT: 25692 24  
तार : बार्क-मुंबई, चेम्बुर.  
TELEGRAMS: BARC-MUMBAI, CHEMBUR.  
टेलिक्स : ०११-६१०१७/०११-६१०२२ बार्क ईन  
TELEX: 011-61017/011-61022 BARC IN  
फेक्स संख्या : ११-२२-५५६०७५०  
FAX NUMBER: +91-22-5505151/5519613



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

भाभा परमाणु अनुसंधान केन्द्र  
BHABHA ATOMIC RESEARCH CENTRE

URANIUM EXTRACTION DIVISION

ट्रॉम्बे,  
मुंबई-४०० ०८  
TROMBAY,  
MUMBAI-400 085

Ref No: UED/PI. 13/18/168294

30.8.2018

Tender No: BARC/UED/MS/18085

Due date: 17.9.2018

Subject: Fabrication and Supply of blended magnesium chips as per the required specification and particle size distribution

Dear Sir/Madam,

**Quotations are invited in sealed envelope *by Registered post or by Speed Post* on behalf of Head, UED for fabrication and supply of the above items as per the following terms and conditions. Please note that quotations shall be submitted on printed letterheads and must bear PAN NO / GST NO / etc. Quotations not complying with them are liable to be rejected.**

1. Scope of work: Fabrication of magnesium chips from magnesium ingots and its supply to the department (UED/BARC). First, supplier has to purchase magnesium ingots and that magnesium ingot will be subjected to random sampling from the department (UED/BARC). Magnesium ingots should as per ASTM B92 M – 01 standard, Grade 9995A or higher. After approval from department, magnesium ingot should be process to produce chips conforming to the specification mentioned below.
2. Specification: Blended Fabricated chips should be stored in good quality PVC bags. Double packing is necessary if thin bags are used and each pack should not contain more than 25kg of magnesium chips. All the PVC bags containing magnesium chips are to be argon flushed and filled before sealing them for dispatch. **These PVC bags should be oxygen impermeable.** These chips filled PVC bags are to be packed in Ordinary MS drums/PVC drums for transportation to the department.
3. Sample: Party has to send sample of Magnesium chips (100gm) with quotation. Quotation without sample will be subjected to rejection.  
Technical specification of Blended Magnesium Chips to be supplied by vendor

Physical & Chemical  
Analysis

Sieve (ASTM mesh nos.) Analysis

Tap Density (gm/cc)	Iron (Fe) [ppm]	<b>MgO (%)</b>	+ 10 (%)	+ 20 (%)	+ 30 (%)	+ 40 (%)	+ 60 (%)	<b>- 60 (%)</b>
≥ 0.74	≤ 30	≤ <b>0.2</b>	00	50 – 60	25 – 45	5 – 10	1 – 5	< <b>0.5</b>

Sieve (ASTM Mesh nos.) Analysis	
Mesh	(%)
+10	00
-10+20	50-60
-20+30	25-45
-30+40	5-10
-40+60	1-5
-60	<0.5

Both ingot and chips shall conform to the chemical composition with respect to the elements covered under ASTM standard as shown in the table. For ensuring purity compliance with ASTM standard, samples are to be tested from a reputed NABL certified laboratory. The method of analysis shall be as per ASTM E35 standard.

Table 1: Elements specified in ASTM B 92 M-01 Grade 9995A

Sr. No	Element	ppm (max.)	Sr. No	Element	ppm (max.)
1	Al	100	7	Si	50
2	Cu	50	8	Na	50
3	Fe	30	9	Sn	50
4	Pd	50	10	Ti	100
5	Mn	40	11	B	<5
6	Ni	10	12	Cd	<5
Other impurities, each, max : 50 ppm					
Mg by difference : 99.95%					

4. **Free Issue Material (FIM):** There will be no free issue material from BARC. Quotation asking for any FIM will be subjected to rejection.
5. **Quantity:** 3500kg
6. **Inspection:** Material should be dispatched only after inspection by authorized representative from the department (UED/BARC).
7. **Charges:** Party shall list all charges per kg basis.
8. **Work completion period:** within 3 months from date of issuing work order.
9. **PAYMENT:** By ECS/Cheque within 3 – 4 weeks after satisfactory completion of work and

producing following documents.

- a. Advance Stamped Receipt.
- b. Original Bill.
- c. Work completion certificate issue by B.A.R.C.
- d. Site clearance certificate issued by BSMO.
- e. Guarantee certificate
- f. GST Number and other necessary documents

**10. Tax deduction:** Income Tax @2% and surcharge on tax as applicable shall be deducted from vendor's bill as TDS.

**11. Guarantee:** you shall give guarantee against any manufacturing defect and trouble free performance for a period of one year from the date of the installation

**12.** Please note that any delay, which is attributable to the contractor, is liable to penalty @ 0.5% per week (max. 5.0%) to be imposed on the contractor.

### **TERMS AND CONDITIONS**

*Note: [Reference: (2/Misc-9/LgU2001192 dated April 30, 2001, BARC]*

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 "Propriety" 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, TV or Internet without the prior written approval of BARC.

Party should clearly mention the tender no, due date, party's name and subject on the top of the envelope duly sealed and addressed to Head, Uranium Extraction Division, BARC, Trombay, Mumbai - 400085.

Thanking you,

Yours truly,

Sd/-

M.Singha

Scientific Officer-F

UED, BARC