

**Government of India
Bhabha Atomic Research Centre
Metallic Fuels Division**

Ref: MFD/RR/21/P-14160

Date: - 11-11-2021

To,

Dear Sir,

We request you to submit your quotation for **“Fabrication and supply of Aluminium leak tight (Universal) double skin containers Quantity: - 100 Nos & Perspex stand with K-type thermocouple sheath as per specifications given in attached drawing and annexure”**.

Yours Faithfully,



(R.Rakesh)
Scientific Officer (E)

Encl.: 1.Annexure (3 pages)
 : 2.Drawings (4 sheets)

ANNEXURE-I

SCOPE:

“Fabrication and supply of Aluminium leak tight (Universal) double skin containers Quantity: - 100 Nos & Perspex stand with K-type thermocouple sheath as per specifications given in attached drawing and annexure”

1. GENERAL:

- You shall send your offer in a sealed envelope indicating delivery period, price inclusive of taxes and other relevant information, to:

R.Rakesh
Scientific Officer (E)
MFD/ NFG,
RLG, Bhabha Atomic Research Centre
Trombay, Mumbai- 400 0085

- Quotation shall reach us on **22/11/2021**, before **11.30 hrs.**
- Please send "REGRET" if not quoting.
- On top left corner of the envelope please indicate Quotation for **“Double skin Leak Tight Containers”**
- Overwriting, scratching etc. must be avoided in the quotation. Rewriting the whole figure shall carry out any alteration in the figure. The authorised person from the firm shall countersign such figure.

2. SCOPE/DESCRIPTION OF WORK:

Part I

The job involves fabrication and supply of items mentioned in the scope as per specifications given in drawing. Fabrication will be done at suppliers premises.

a. The whole job has to be made from a solid Aluminium 6061 T6 rod. The raw material certificate for the same shall be provided before commencement of the job. **NO WELDING/CASTING IS ALLOWED ON THE JOB.**

b. Material is to be tested & certified for UT. In case of any doubt during inspection, vendor may be asked to do x-ray radiography of the containers. **COST FOR THE SAME WILL BE BORNE BY THE SUPPLIER.**

c. The Dimension and Finish of the ID of the "INNER CONTAINER" is technically very important hence the Dimensions should be strictly maintained and should be lapped and polished to achieve Mirror Finish.

d. Finally the containers shall be tested for its leak rate using HELIUM LEAK DETECTOR, before its acceptance. Leak rate should be better than 10^{-8} std cc/sec

Along with each double skin Aluminium leak tight container 1 no. of aluminium discs of 110 mm dia. X 3mm thickness must be supplied i.e 100 nos of discs in total.

Also the scope includes supply of 5 nos of 'T' shape Allen key for ease of opening/closing of the containers, one allen key set in metric units & British units each, one set of fixed spanner, one set of adjustable spanner of various sizes .

Sharp corners must be avoided. Containers should be made from solid Aluminum and it should be defect free, highly dense and non-porous. Supplier has to get at least one container fabricated and approved from the indenter before starting bulk production. If indenter is not satisfied with fabricated sample he has right to reject the offer.

Part-II

SS canister- 5 nos (Ref: Drg No. BARC/MFD/US/A1).

Part III

- 01) K-type thermocouple sheath → 50 Numbers
- 02) Male & female type omega make connectors → 50 Numbers each
- 03) Thermocouple Nut → 50 Numbers
- 04) Perspex stand (Design A) → 10 Numbers
- 05) Perspex stand (Design B) → 5 Numbers
- 06) Perspex legs with threaded design to assemble it with Perspex stands (cylinders of 20 mm dia & 50 mm height) → 50 Numbers

Work is to be completed within delivery period. No free issue of material will be issued by BARC. Warranty for a period of at least one year is compulsory.

3. TAXES:

- The Applicable taxes in GST format with break up for different items and their individual tax component in case of variation for individual sub-items must be submitted with the offer.

4. DELIVERY PERIOD:

- The delivery period mentioned in the quotation shall be strictly adhered to. If the contractor fails to supply and secure extension of delivery date before effecting delivery of the supply against the contract, acceptance of such item by the purchaser will in no way prejudice the right of the purchaser to levy liquidated damage nor will it be entitled to the contractor for payment of statutory levies that comes into force after the expiry of the delivery date.
- Early delivery schedule will be given a consideration.
- Guarantee / Warranty of the material supplied for one year.
- For any Enquiry and clarifications on drawing you may contact the following persons S/Shri. R.Rakesh (25590677).
-

6. INSPECTION

Pre despatch inspection is necessary. The job will be checked for the following:

- a) Leak tightness of containers
- b) Dimensions, surface finish, opening and closing of containers will be checked.

7. PLACE OF WORK:

The work has to be carried out at the supplier's premises

PLACE OF DELIVERY:

- The inspected and accepted assemblies shall be delivered to:
Stores Officer
Radiological Zonal Stores
Bhabha Atomic research centre
BOMBAY 400 085

INSPECTION AND TESTING:

The purchaser will have access at all reasonable times to all shops of the contractor and the sub-contractors where material is being fabricated and assembled and all reasonable facilities for such inspection shall be provided. Prior to the supply of item the manufacture has to get it approved from the purchaser.

PAYMENT TERMS:

Full payment will be made only on satisfactory completion of Work order and delivery of:
“Fabrication and supply of Aluminium leak tight (Universal) double skin containers Quantity: - 100 Nos & Perspex stand with K-type thermocouple sheath as per specifications given in attached drawing and annexure” and on production of:

Three copies of Invoice, in the name of,
Head,
Metallic Fuels Division
Nuclear Fuels Group,
Bhabha Atomic Research Centre,
Mumbai 400085.

- Advance Stamp Receipt
- A copy of cancelled cheque
- Company's GSTIN No. & PAN No. should be furnished along with the bill.
- Company's copy of Sales Tax /Service Tax Registration Certificate has also to be furnished along with the bill.
- ITR Undertaking with acknowledgement for last two years.
- Option form for payment through ECS/RTGS with pre-stamped receipt.
- Guarantee / Warranty of the material supplied should be for one year.
- ITR Undertaking with acknowledgement for last two years.

Note: The Tax Invoice should specifically indicate the following:

- GSTN
- PAN
- Location of Supply
- Tax Component to be separately indicated in the invoice
- Undertaking that the GST has been promptly deposited with the authorities
-

Please note that, income tax @ 2% and GST TDS@2%, will be deducted from your bill.
No part payment or advance payment will be made.

DELAY CLAUSE:

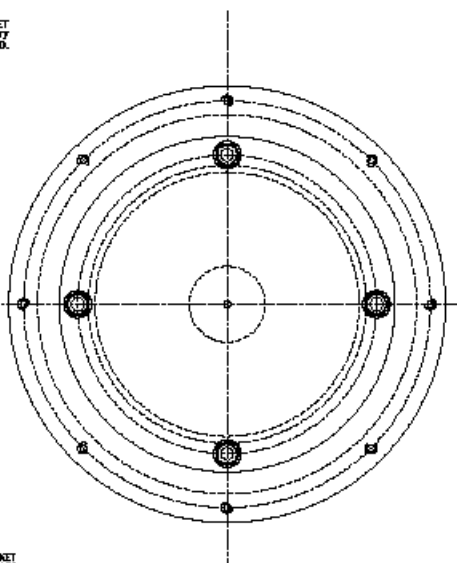
Any delay which is attributable to the contractor is liable for penalty @0.5% per week (max. 10%) to be imposed on the contractor.

CONFIDENTIALITY:

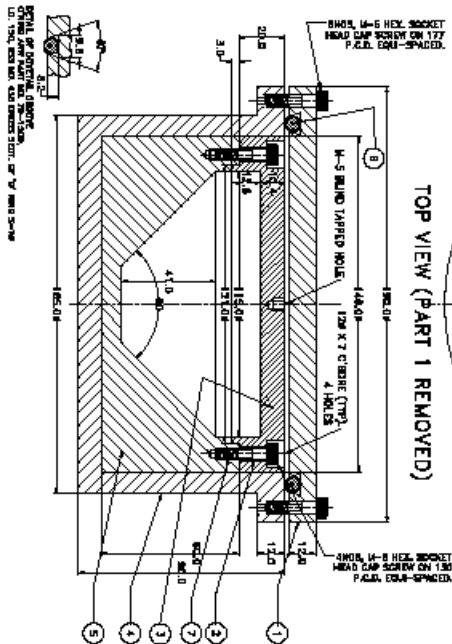
No, party shall disclose any information to any third party, concerning the matters under this contract generally. In particular, any information identified as "Proprietary" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any 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. "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. 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 medial like press, radio, T.V. or Internet without the prior written approval of BARC.



R.Rakesh
Scientific officer (E)
(On behalf of the President of India)

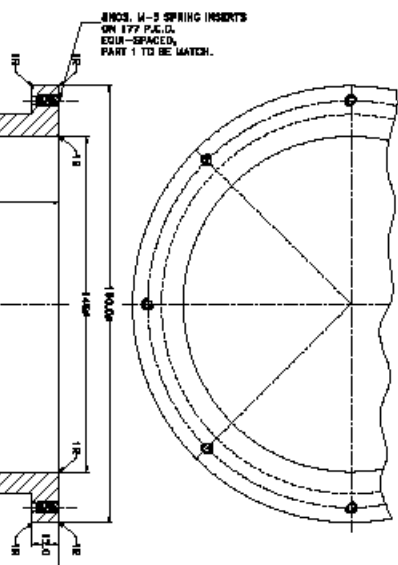


TOP VIEW (PART 1 REMOVED)

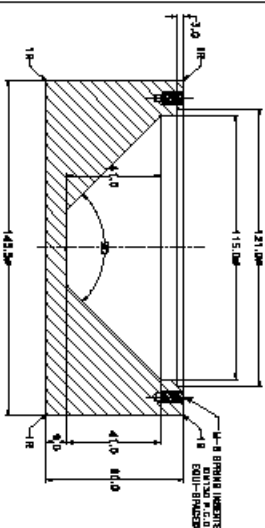
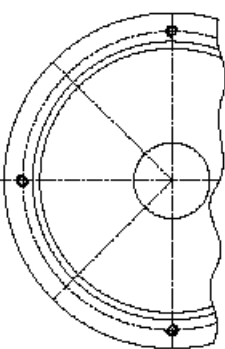


RETAIL OR DOOR-TO-DOOR
COUNCIL AREA PLANT BOX 78-1509,
LD. 1790, RICHMOND, CALIF. 94806
OR "Y" FROM 8:30-7:00

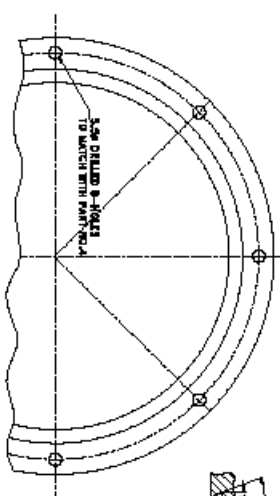
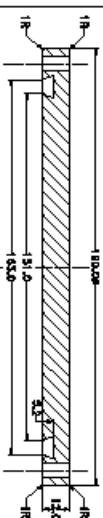
MAIN ASSEMBLY



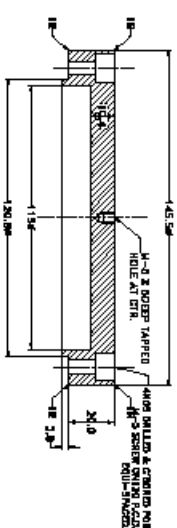
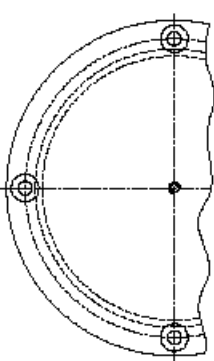
PART NO. 4



PART NO. 5



PART NO. 1



PART NO. 3

NOTES:—

11 ALL THE WASHINGS SHALL BE DONE FROM BRIDLE BAR OF 28 AL. GRADE.
12 NO WELDING IS PERMITTED.
13 ALL THE CORNERS TO BE ROUNDED OFF

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DATE	APR 01
SHEET NO.	OF 1 SHEET
TITLE	CLAMP DOWN CONTAINER
DRAWN BY	DAVID B-E-2380
CHECKED BY	RE-BA-HA
SCALE	GOVERNMENT OF INDIA MINISTRY OF DEFENSE MATERIAL DIVISION
ITEM NO.	BARC-MD-100-A
REVISED	THIRD REVISION PRODUCTION

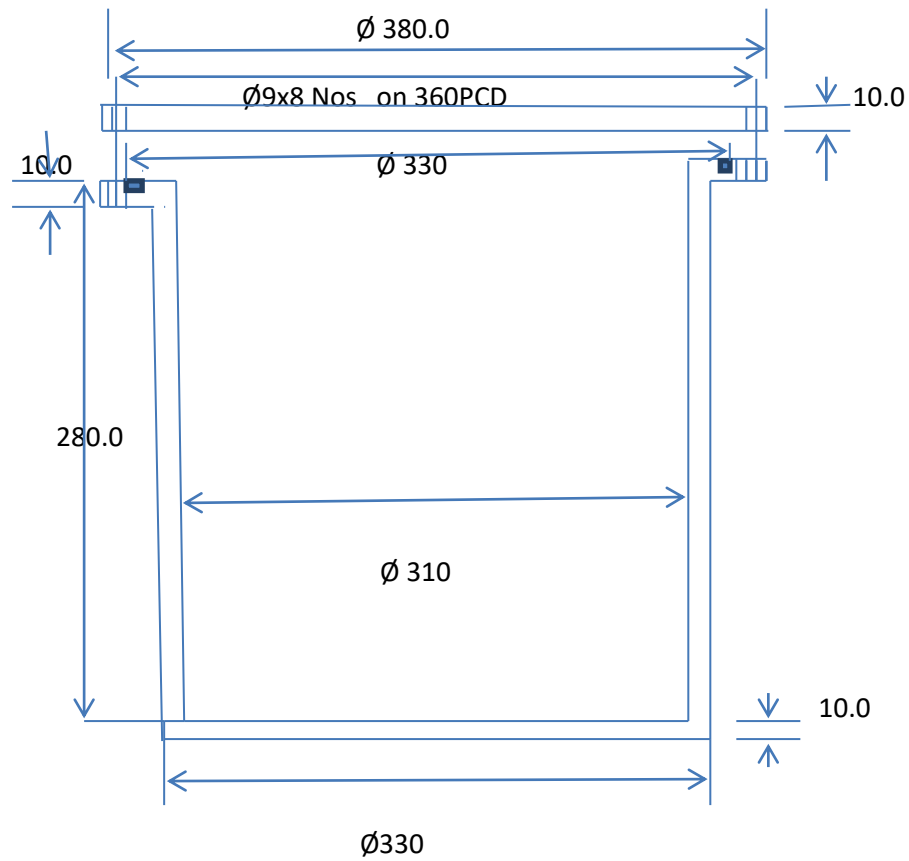


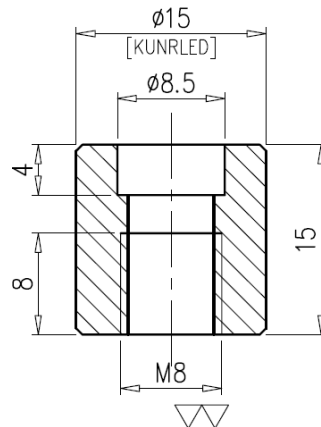
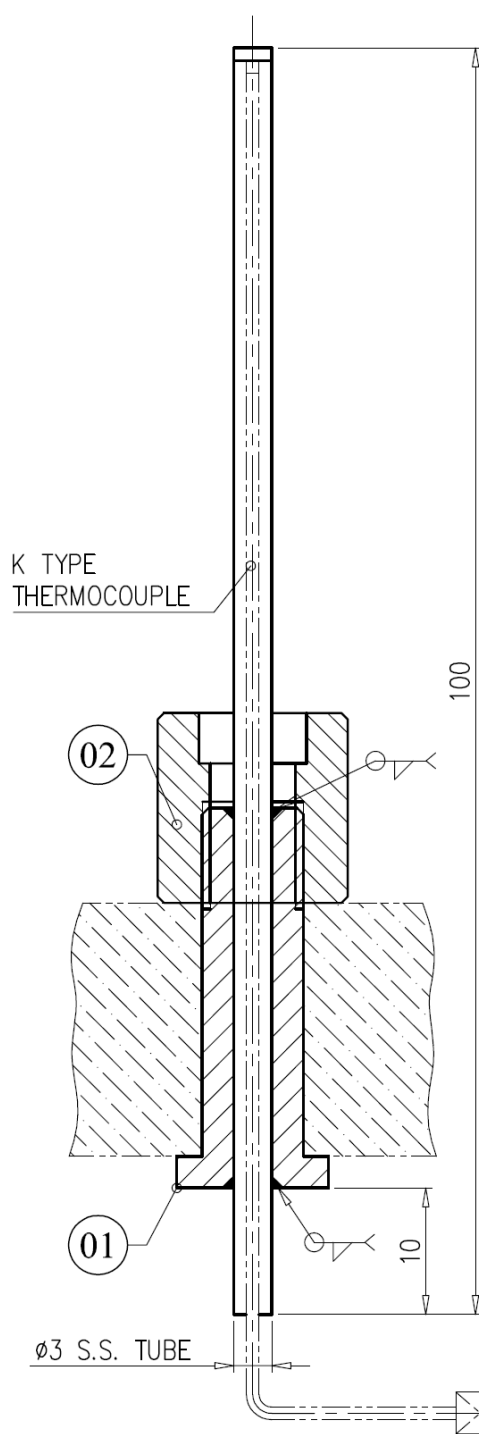
Fig: Drawing of Leak tight SS canister

Butt welding for the bottom and flange which must be 100% radiography tested.

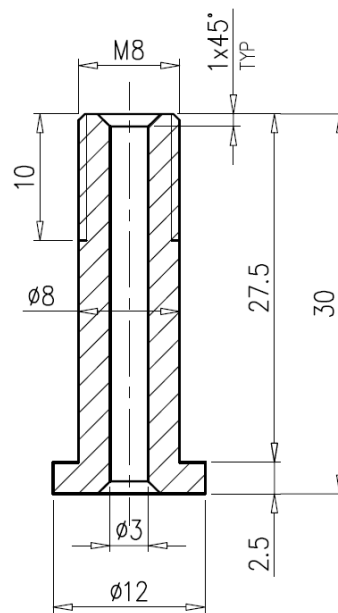
Cylindrical part must be seamless.

Silicone 'O' of 8mm cross section to be provided

Drg. No. BARC/MFD/US/A1

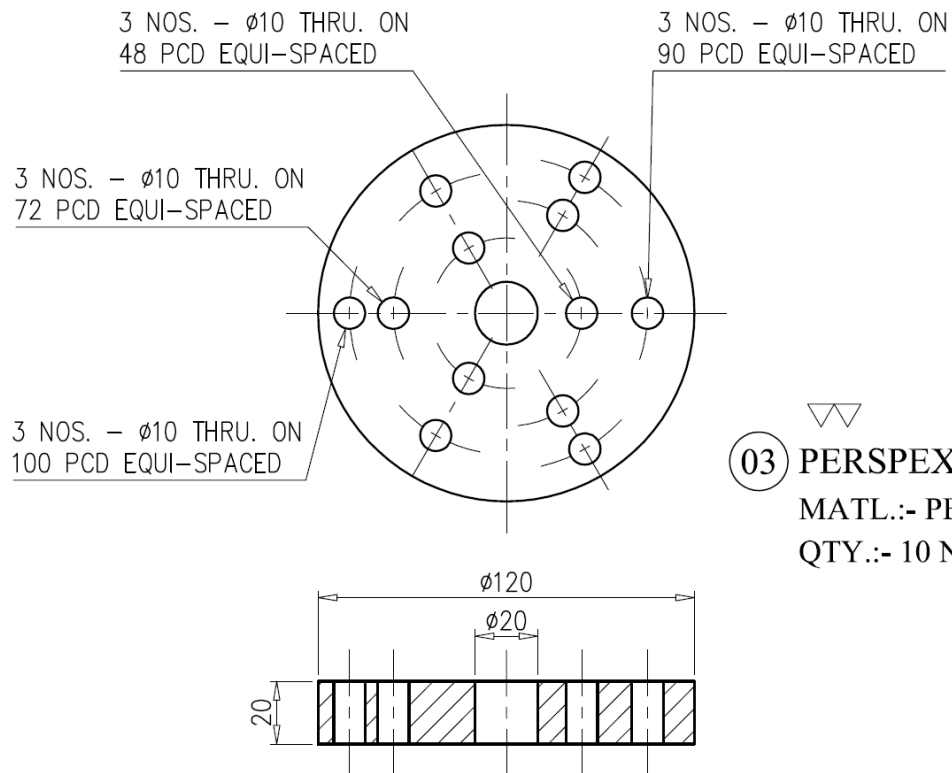


02 THERMOCOUPLE NUT
MATL.: - PERSPEX
QTY.: - 60 NOS.



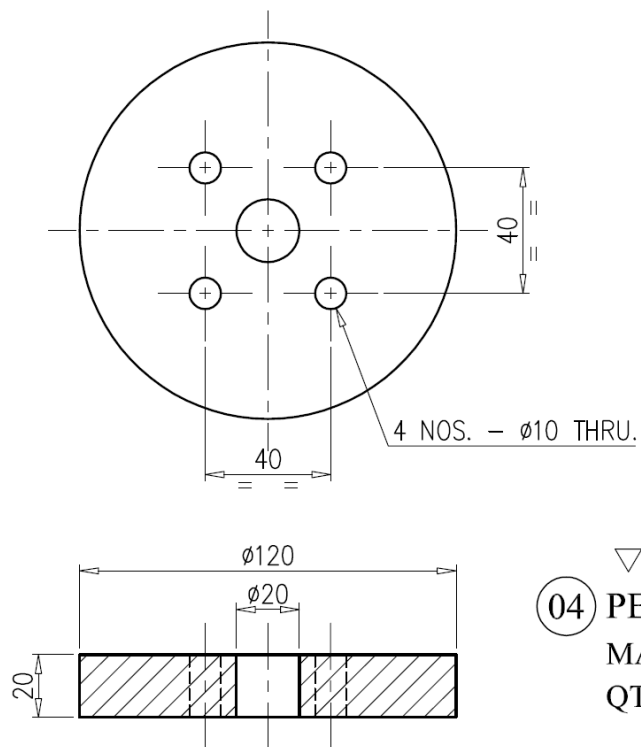
01 THERMOCOUPLE GUIDE
MATL.: - S.S. 304
QTY.: - 60 NOS.

PROJECT	TITLE	DES'D.	DES. CK'D.
PROJECTION THIRD ANGLE	THERMOCOUPLE SHEATH	APP'D.	
DR'N. PawarSR		SCALE 2:1	
CHK'D. Rakesh		DRG. NO.	
	GOVERNMENT OF INDIA BHABHA ATOMIC RESEARCH CENTRE ENGG. DESIGN AND DEVELOPMENT DIVISON	BARC-MRG-ED&DD-1342A	



▽▽

03 PERSPEX STAND
 MATL.: PERSPEX
 QTY.: 10 NOS.



▽▽

04 PERSPEX STAND
 MATL.: PERSPEX
 QTY.: 5 NOS.

PROJECT	TITLE PERSPEX STAND	DES'D.	DES. CK'D.
PROJECTION THIRD ANGLE		APP'D.	
DR'N. PawarSR		SCALE 2:1	
CHK'D. Rakesh		GOVERNMENT OF INDIA BHABHA ATOMIC RESEARCH CENTRE ENGG. DESIGN AND DEVELOPMENT DIVISION	DRG. NO. BARC-MRG-ED&DD-1342B