



GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
BHABHA ATOMIC RESEARCH CENTRE
AUTONAGAR, VISAKHAPATNAM - 530012.

Computational Analysis Division

Ref : BARCV/CAD/HPC/2018-19/MF/02

Dated : 01-05-2018

Sub: Notice inviting tender for "Fabrication, supply and installation of data centre false flooring" at BARC campus, Atchutapuram, Visakhapatnam District, Andhra Pradesh as per enclosed specifications.

Dear Sir/Madam,

Sealed Quotations are invited for and on behalf of President of India for the "**Fabrication, supply and installation of data centre false flooring**" at BARC campus, Atchutapuram, Visakhapatnam District, Andhra Pradesh as per enclosed specifications in Annexure-A and terms and conditions in Annexure-B.

The Sealed envelope for the quotation with the reference number of this enquiry shall be super scribed with "**Fabrication, supply and installation of data centre false flooring at BARC campus, Atchutapuram**", should reach on or before 15/05/2018 upto 15:00 Hrs to

Regional Director,
Bhabha Atomic Research Centre,
IDA Block-B, 4th Cross Road,
Near St. Aloysius ITI
Autonagar, Visakhapatnam – 530012
Ph: 0891-2892 131

The validity of the quotation shall be up to 180 days from the last date of submission of the quotation.

N. Saktivel
(N. Saktivel)
SO/F
Email: svel@barc.gov.in
Tel: 0891-2892 169

Enclosure:

Annexure A: Detailed technical specifications

Annexure B: Terms and conditions

Annexure-A

Detailed technical specifications for Fabrication, supply and installation of data centre false flooring

Note:

- I. The quotation should specify the **unit price per Sq. Ft. as well as total price** for fabrication, supply and installation of data centre false flooring as per technical specifications of this tender.
- II. The vendor should provide the required number of cuttings in the false flooring tiles for routing of water pipes, cables etc.. as required by the Engineer In-charge.

1. Dimensions

- 1.0 **Dimensions:** Total area of False flooring (consisting of two rooms): 1850 Sq. Ft
- 1.1 **Room 1** : Length = 12200 mm / 40.02 ft Breadth : 11260 mm / 36.94 ft
Room1 total area = 1478 Sq. Ft
- 1.2 **Room 2** : Length = 3975 mm / 13.04 ft Breadth : 8680 mm / 28.47 ft
Room2 total area = 372 Sq. Ft

2. Specifications of False flooring:

- | | | |
|-----|---|----------------------------------|
| 2.0 | Uniform Distributed Load | : 2000 Kg/m ² or more |
| 2.1 | Concentrated Point Load | : 400 Kg or more |
| 2.2 | Fire resistance, Thermal Insulation & Flame resistance: | 60 min or more |
| 2.3 | Thickness Tolerances | : -0.2/+0.2 mm |
| 2.4 | Dimensional Tolerances | : Less than equal to 0.4 mm |
| 2.5 | Floor height from the existing floor level | : 600 mm |
| 2.6 | Panel/tile dimensions | : 600 x 600mm x 35 mm |
| 2.7 | Glass succession plate | : 1 No's |

The detailed technical specifications brochure of the false flooring (including tiles, pedestals) to be supplied should be submitted along with quotation. Quotations submitted without specifying the required technical details along with supporting technical documents/brochures will not be considered for technical evaluation.

3. Details description for Raised floor for data centre

- 3.0 Access floor system to be installed will provide a maximum finished floor height of 600 mm from the existing floor level. The system will provide for suitable pedestal and under-structure designed to withstand various static loads and rolling loads
- 3.1 **Panels:** Panels will be made up of inert material Fire retardant chip board having Antistatic properties. The bottom of the panel shall be of 0.05 mm Aluminium foil to

create a fire and humidity barrier and this should provide floor's electrical continuity. The Panels edging will be UL approved. Panels will provide for impact resistance top surfaces minimal deflection, corrosion resistance properties and shall not be combustible or aid surface spread of flame. Panels will be insulated against heat and noise transfer.

- 3.2 Panels will be 600 x 600mm x 35 mm height fully interchangeable with each other within the range of a specified layout. Panels shall rest on the grid formed by the stringers which are bolted on to the pedestals. Panels shall be finished with anti-static 0.9 mm Laminate and 0.45 mm thick plastic edge material that is self extinguishing and will be PVC free Panel Loading Fire Rating: The Panels will confirm to Class 1 Fire Ratings tested as per CIRC 91/61 or BS 476 Part 6 & 7 (60 min).
- 3.3 **Pedestals:** Pedestal installed to support the panel will be suitable to achieve a finished floor height of 600mm. Pedestal design will confirm speedy assembly and removal for relocation and maintenance.
- 3.4 **Pedestal Construction:** The structure is made entirely of galvanized steel consisting of hexagonal shaped, 89 mm diameter, and 1.5 mm thick base plate, with 6 shaped stiffening ribs with niches that improve adhesion and with 5 holes mechanical fastening to the ground. The assembly will provide a range of height adjustment up to 25mm, with the help of check nuts.
- 3.5 **Stringer:** Under structure system consists of stringers of size 525 x 30x25 x 0.8 mm thick to form a grid of 600 x 600mm. These stringers are locked into the pedestal head and run both ways. The Under structure system will provide adequate solid, rigid and quiet support for access floor panels. The Under structure system will provide a minimum clear, uninterrupted height of 600 mm between the bottom of the floor and bottom of the access floor for electrical conducting and wiring.
4. **Warranty:** The vendor should quote for one-year on-site comprehensive warranty from the date of satisfactory installation. This covers all material supplied under this tender.
5. **General requirements:**
If any doubt, the vendor can have prior discussion with the indenter for any clarifications.

Annexure-B

General Terms and Conditions

1. Quality surveillance, inspection and inspection report

- a) All items should be fabricated / procured as per technical specifications of this tender
- b) Inspection and tests shall be carried out by the fabricator as per the requirements detailed in the specifications.
- c) Components found unsatisfactory as to workmanship or material shall be removed by the fabricator and replaced by the components which are to the satisfaction of BARC
- d) The finished components shall not be erected without prior to approval by BARC.

2. Raw Material

- a) Raw Material for all the components and hardware will be provided by the supplier.

3. Delivery

- a) The bidder shall **strictly complete the work (Procurement, Fabrication, Delivery & Installation) within 2 month (including Monsoon) from the date of issue of work order.**
- b) In special case any extension in delivery is to be granted to the contractor, party shall make written request for extension justifying the reasons.

4. Sub Contract

- a) The fabricator shall not sub-contract any or all the work without written consent from BARC. The fabricator shall be responsible to BARC for the entire sub contractor of the fabricator, if at all allowed by BARC.

5. Taxes

- a) GST as applicable against undertaking from the supplier.
- b) The fabricator should quote all rates inclusive of applicable GST.

6. Payment

- a) Payment will be made within month only after satisfactory completion of work and on production of invoice with details of location of supply, separate tax components along with PAN & GSTIN, advance stamped receipt and Bank details.
- b) Advance / Part payment or against delivery cannot be made.
- c) It may be noted that Income Tax at 2% will be deducted from the bill.
- d) TDS will be deducted at applicable rates on payments made to the supplier.
- e) Any delay which is attributable to the fabricator is liable for penalty @ 1% per week (max 5%) will be imposed on the fabricator.

7. Confidentiality:

- a. No party shall disclose any information to 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.

- b. "RESTRICTED INFORMATION" categories under section 18 of the Atomic Energy Act, 1962 and "OFFICIAL SECRETS" under section 5 of the Official Secrets Act, 1923
- c. Any contravention of the above mentioned provisions by any contractor, sub-contractor, consultant, advisor or the any employees of a contractor will invite penal consequences under the aforesaid legislation
- d. Prohibition against use of BARC's name without permission for publicity purpose:-
- e. The contractor or sub-contractor, consultant, advisor or the employees engaged by the contractor shall not use BARC's name for publicity through any public media like press, radio, T.V., or internet without the prior written approval from BARC (vide circular ref: 2/Misc-9/Lg1/2001/92 dated April 30, 2001)

8. Acceptance criteria for supply of "Fabrication, supply and installation of data centre false flooring at BARC campus, Atchutapuram, Visakhapatnam":-

- **Material test certificate like concentrated load test, uniform load test, fire testing and quality test certificate etc., should be produced before installation, wherever required fulfilling the item specifications.**
- **Payment will be made after fulfilling item technical specifications.**

Place of Delivery /Contact Persons :

Attn: Stores Officer
Facility for Electromagnetic Systems
Computational Analysis Division (PEB-3,Super Computing Facility)
Bhabha Atomic Research Centre
Dosuru- Atchutapuram
Visakhapatnam (Rural), Visakhapatnam District
Andhra Pradesh---531011

Contacts of Indenting Officer:

- 1. Shri N Sakthivel** (Indenting Officer)
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Super Computing Facility, BARC-Vizag
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