



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

Chitranjali Hills, Thiruvallam, Thiruvananthapuram-27
Phone: 0471-2380910, 912 Fax: 0471- 2380681

No. C-DIT/GEN-ESD/03/2021-22/T291

Date: 19.03.2022

TENDER NOTICE

SUPPLY AND FIXING RAISED FLOORING FOR SERVER INSTALLATION

Sealed tenders are invited for the supply and Fixing Raised flooring for server installation. The envelopes containing the tender should bear the superscription ***“Tender for the supply and Fixing Raised flooring for server Installation”*** and should be addressed to The Registrar, Centre for Development of Imaging Technology (C-DIT), Chitranjali hills, Thiruvallam, Thiruvananthapuram 695027.

Intending tenderers may submit the tenders on their own papers by post/hand. Last date for receipt of tenders is **29.03.2022, 3.00 PM**. Late tenders will not be accepted. The tenders will be opened at **3.30 PM on 29.03.2022** in C-DIT office in the presence of the tenderers or their authorized representatives who may be present at that time. Details of the requirements and the conditions governing the supply can be downloaded from our website www.cdit.org

Thiruvananthapuram
19.03.2022

Sd/-
REGISTRAR

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FORM - A

SUPPLY AND FIXING RAISED FLOORING FOR SERVER INSTALLATION

GENERAL TERMS AND CONDITIONS

This Tender is invited for the " *supply and Fixing Raised flooring for server installation*" as per the specification given below.

C-DIT reserves the right to cancel any or all tenders without assigning any reason whatsoever

SPECIFICATIONS

Sl.No	Particular	Size/Nos
1	Providing and fixing raised floor system as per below mentioned specification	130 Sq. Ft.
	<u>PANELS</u> : Access Floor panel of size 600 x 600 mm shall be all steel welded construction with an enclosed bottom pan of hemispherical cones and the top plain sheet is fuse-welded at 144 locations to form a panel. The hollow panels post manufacturing shall be pretreated on an Automated Pre treatment line and further coated with electrostatically deposited epoxy raisin paint 60 - 80 micron thick on all the exposed sides of the panel. Post-coating the hollow core of the panel is injected with a lightweight, fire retardant, non-combustible cementitious compound at high pressure to ensure support of not less than 90% of the top surface area of the panel.The panel is then laminated with floor grade Antistatic Laminate / PVC on a semi-automated lamination line to ensure maximum bonding to the steel surface. The edges of the laminated are protected with conductive PVC edge trim 5mm wide on all sides. This edge trim is	

	mechanically locked and sealed in place to avoid detachment.	
	<p><u>PANEL DESIGN REQUIREMENT :</u></p> <ul style="list-style-type: none"> ➤ The Panel should have a Low Flange Width of 8.00mm on all four sides: ➤ Providing a higher strength to the unsupported edge thus leading to reduced risks and minimalistic damage due to frequent access to the panel post installation ➤ Enabling the panel to perform better on all technical parameters & with enhanced load-bearing capacity ➤ Reducing risk of accidents at site, due to less exposed area while stacking the material at site ➤ 	
	<p>Beam width of the panel should be 19.50mm:</p> <ul style="list-style-type: none"> ➤ Enhances load-bearing capacity by ensuring full support on the entire perimeter, through the beam of the panel when used with the ESRG system 	
	<p>The panel resting on the pedestal head should have a minimum footprint area of not less than 730 sq mm:</p> <ul style="list-style-type: none"> ➤ Higher footprint area of the panel on the pedestal head enhances the load-bearing capacity of the panel, proving an increased support to the panel 	
	<p>Corner Radius of the panel should be R 15mm & with reduced cantilever flange edge of 19.60mm:</p> <ul style="list-style-type: none"> ➤ Panel with lower radius, improves reducing the exposed cantilever edge on the unsupported areas at the corners of the panel. 	
	<p>LEED/Green Certified product.</p> <ul style="list-style-type: none"> ➤ All panels to have a recycle content of minimum 30%. 	

	<p>➤ The panels should be Green certified by a Green building council authority.</p>	
	<p><u>SUB STRUCTURE -PEDESTAL ASSEMBLY</u></p> <p>Substructure installed to support the panel shall be suitable to achieve a minimum finished floor height of 300 mm from the existing floor level. Pedestal design shall confirm speedy assembly and removal for relocation and maintenance. The assembly shall provide easy adjustment of levelling and accurately align panels for a maximum ± 25 mm in the vertical direction. Pedestals shall support an axial load without permanent deflection and an ultimate load as laid out in System Performance requirement.</p> <p>The Pedestal head assembly shall consist of embossed head mechanically riveted to a rolled formed stud and 2 check nuts for level adjustment and arresting vertical movement. The pedestal head shall consist of an anti-vibrational conductive cap with inbuilt isolating spacers for Panel and stringer location.</p> <p>The Pedestal Base assembly shall consist of pipe mechanically locked on a press for perpendicularity and then mechanically welded to a base plate with stiffening folds for enhanced strength & excellent grip to glue.</p> <p>The substructure assembly shall be suitably anchored to the floor with suitable adhesive or fastener as recommended by the consultant/manufacturer. All steel components shall be pre Galvanized.</p>	
	<p><u>STRINGERS :</u></p> <p>The stringer shall be Continuous Box type, hot dipped galvanized steel cold rolled construction for strength, lateral stability, and for enhanced rolling loads performance and to support the panels on all four sides for alignment without leaving any gap at the pedestal head preventing air leakage. The stringer to have countersunk holes at both ends to accommodate bolting of M6 machine screws to the pedestal head assembly.</p>	

PERFORMANCE CONFORMING TO MASTER SPECS 10270 / 096900 (USA)

A: Structural Performance: CISCA A/F, 'Recommended Test Procedures for Access Floors'

- **Concentrated Loads** : 363 Kgs (800 lbf) with a top-surface deflection under load and a permanent set not to exceed 2.54 & 0.25 mm (0.10 & 0.010 inches) respectively according to CISCA A/F, Section I " Concentrated Loads"
- **Ultimate Concentrated Load:** 907 kgs (2000 lbf) without failing according to CISCA A/F, Section II " Ultimate Loading"
- **Uniformly Distributed Load (UDL) : 1650 kg/m²:** 1650 kg/m² with a maximum permissible deflection of not more than 2.5 mm as per definition of "Uniform load" of CISCA.
- **Pedestal Axial Load Test** : 22 kN axial Load per pedestal, according to CISCA A/F, Section V, "Pedestal Axial Load Test "
- **Pedestal Over Turning Moment Test** : 113 N x meters, according to CISCA A/F, Section VI, "Pedestal Overturning Moment Test"
- **Rolling Loads** : 180 kgs (400 lbf) of the following magnitude, with a combination of local and overall deformation not to exceed 1.02 mm (0.040 inches) according to CISCA A/F, Section III " Rolling Loads" CISCA AF Rolling Load: 10000 Passes

B: Other Optional Structural Parameters :

- **Soft body impact test** on the system shall be with a load of 40 kgs dropped form a height of 1000 mm and shall comply to all the performance as specified in the test method (T12.03) of MOB PF2 PS Standards.
- **Hard body impact test** on the system shall be with 4.5 kgs dropped from a height of 600 mm and shall comply to all the performance as specified in the test method (T13.03) of MOB PF2 PS Standards

	<p>C: Other Nonstructural Parameters:</p> <ul style="list-style-type: none"> ➤ Fire Rating : The Panels shall confirm to Class O & Class 1 Fire Ratings tested as per BS 476 Part 6 (Fire Propagation) & 7 (Surface spread of flame) and also BS 476 Part 4:1970 (Non -Combustibility) ➤ Electrical Resistivity: As per ASTM F150/ NFPA 99 / ANSI S7.1 / CEI 61340 but modified for the surface to ground. To place one electrode on the Access floor Panel surface and to attach the other electrode on the pedestal. Resistance to be tested at 100/500 volts <ul style="list-style-type: none"> 1. Conductive range : $2.5 \times 10^4 - 1 \times 10^6$ Ohms (surface to ground) 2. Static dissipative range : $1 \times 10^6 - 1 \times 10^9$ Ohms (surface to ground) 3. Anti static range : $1 \times 10^9 - 2 \times 10^{10}$ Ohms (surface to surface) ➤ Fabrication Tolerance : <ul style="list-style-type: none"> A. Floor panel flatness: ± 0.75 mm in any direction B. Floor panel width or length from specified size: ± 0.50mm C. Floor panel squareness: ± 0.38 mm 	
2	Supply of tile puller	1 No

ELIGIBILITY CRITERIA OF TENDERER

1. To qualify for award of the work, the intending tenderer must be an authorized dealer / supplier of the quoted items/ with prior experience in supplying the same or similar works in the last two years.
2. The Tenderers are responsible for effecting supply to the entire satisfaction of the undersigned or his authorized representatives. In case any defect in the item supplied is noticed, such item will be rejected at the risk and cost of the Supplier.
3. Tenders shall invariably be accompanied by manufacturer's catalogues and leaflets giving full specifications. Technical particulars and other details of the items offered 'brand make' and complete specification should be mentioned in the tender. In the absence of full details and technical specification the tenders for the items will be rejected.

OTHER TERMS AND CONDITIONS

4. The undersigned does not bind himself to accept the lowest tender and reserve himself the rights of accepting the whole or any part of the tender and the tenderer shall be bound to supply the accepted item at the rates quoted.
5. CDIT reserves the right to split the quantity of the items to be supplied among one or more bidders, at its sole discretion.
6. No advance payment will be made against supplies.
7. The rate quoted by the Tenderer shall be inclusive of the transportation charges, installation charges and unloading charges at site. Rates quoted by the tenderer shall be valid for a period of six months from the date of opening of the tender.
8. Date of Completion of work shall be specifically indicated in the tender and strictly adhered to. The work shall be completed within 7 days on receipt of the firm order. Any delay in the completion of work after the work order is placed may result in cancellation of the work order.
9. The rate should be quoted for the unit shown in the list and tenders which do not indicate this essential information will not be considered.
- 10. The supplier shall submit the price offers in "Form B" in sealed envelope.**
11. The rate quoted for material shall be final and no enhancement will be allowed under any circumstances.
12. If the tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.
13. The bidder shall provide a work **guarantee** of six months from the date of completion of work.
14. Post work service support should be available in Thiruvananthapuram. Complaints should be attended properly, maximum within 24 hrs. The service should be provided directly by Tenderer.
15. All items offered shall conform in all respects to the relevant Indian standard Specification with up to date amendments wherever applicable.
16. Any dispute / differences between the parties arising out of and in connection with the contract shall be settled amicably by mutual negotiations. Unresolved

disputes/ differences, if any, shall be settled by Arbitration and the arbitration proceedings shall be conducted at Thiruvananthapuram (India) in English language, under the Indian Arbitration and Conciliation Act, 2005. Unsettled disputes will be referred to courts and courts in Thiruvananthapuram/ Kerala will have exclusive jurisdiction over the same.

17. PAYMENT TERMS

The following terms of payment shall be applicable for the contract

- I. 100 % payment through bank cheque against successful completion of work and certification of M-Book by competent authority from C-DIT.
- II. All applicable taxes shall be separately indicated in the tender. Only those taxes which are mentioned will be payable by C-DIT against invoice.

18. Agreement: The Successful bidder within 10 days of getting confirmed work order has to enter an agreement with C-DIT in Rs.200 worth non judicial stamp paper, to ensure guarantee and after sales support during the guarantee period.

19. Authority: The authority for the acceptance of the tenders rests exclusively with the C-DIT. The C-DIT does not undertake to accept the lowest or any particular tender or to assign any reason whatsoever for the rejection of any tender.

20. At any time prior to the deadline for submission of tenders, the C-DIT may, for any reason deemed fit by it, modify/amend the tender documents by issuing suitable amendment(s)/ corrigendum's to it. Corrigendum to this tender shall be published in the site www.cdit.org. Prospective bidders are advised to regularly visit the website: www.cdit.org to keep track of corrigendum, if any.

21. In case of doubt: If the bidder have any doubt on technical specifications or on terms & conditions stipulated above, please contact Sri. Pradeep.N.S in Mobile Number: 8547720167

The last date for submission of bids : 3.00 PM on 29.03.2022

The bids opening day : 3.30 PM on 29.03.2022

Sd/
REGISTRAR, C-DIT
Dated 19.03.2022



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FORM - B

SL.NO	ITEM DESCRIPTION	Size /Nos	UNIT PRICE	GST	TOTAL PRICE
1	Providing and fixing raised floor system as per below mentioned specification	130 Sq. Ft.	Per sqft		
2	Supply of tile puller	1			
TOTAL					

Date

Stamp

Name & Signature of Bidder