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DOEACC CENTRE, SRINAGAR/JAMMU

An Autonomous Body of Department of Information Technology, Ministry of
Communications & Information Technology, Govt. of India

SIDCO Electronics Complex, Old Airport Road, Rangreth

Phone Nos. 0194-2300501, 2300502, 2300805, 2300949 Fax No: 0194-2300501

TENDER DOCUMENT

CIVIL WORKS

(Pre-fabricated Structure for Hall type space)

**COMERCIAL BID : DOEACC(S)/----
--/2009**

LAST DATE FOR RECEIPT OF TENDER : 24th December2009

DATE FOR OPENING OF TENDER : 24th December2009

Tender Document Price – Rs.500/-

Details of the Agency

1) Name & Registration of the firm/Contractor (attested copies of registration certificate)

í
í .

2) License No. of the agency/Contractor.

í .

3) Date of establishment of the firm.

í

4) Details of the experience in the construction of prefabricated structures (supporting documents)

í ..
í ..

5) Latest income tax clearance certificate.

6) Earnest money details:-

a) Name of the Bank

í ..

b) Date of issue of Demand Draft.

í ..

c) Amount of Demand Draft.

í ..

Signature of the Tenderer



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Note: Please note that non submission of form or submission of incomplete form is liable to make the tender invalid.

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DOEACC Centre Srinagar/Jammu

General Conditions of Tender

1. The tenderer is required to quote the rates as per items mentioned in tender specifications sections.
2. Conditional tenders shall be rejected even though the rates quoted are the lowest.
3. The rates quoted by tenderer should be fixed having validity for a period of three months from the date of opening of the tender.
4. The tenderer is required to enclose with the tender an earnest money for an amount equivalent to 2% of the total tender amount in the shape of a call deposit pledged to Director DOEACC Centre Srinagar/Jammu without which the tender shall not be accepted.
5. The Director DOEACC Centre Srinagar / Jammu reserve the right to reject any / all the tenders partly/fully without assigning any reason thereof.
6. The contract shall be time bound(75days from the date of allotment of works) and no extension in the period of completion of works as mentioned in the tender agreement will be admissible.
7. In case of delay in execution of work as per time schedule mentioned in tender, penalty 0.5% per week or part thereof up to 10% of total cost of the work shall be imposed which will be recovered from contractor from any money which shall become due or which becomes due to him from this center. However, Director DOEACC may waive off the penalty on his discretion and extend the duration of works to be carried out.
8. The bad/defective works or works which are not found to be executed as per the tender specifications shall be rejected.
9. 10% deposit shall be deducted from each running bill and shall be released on the completion and inspection of the works as per the agreement. Final payment shall be made to the contractor after the final measurements, inspection / verification of the works by the inspection committee and taking over of the same.
10. The work shall have to be executed strictly in accordance with the drawings, specifications and at site requirements or as directed by the Officer In-charge of DOEACC Centre Srinagar /Jammu, Srinagar.

11. The items which are not covered in this tender but subsequently found essential during execution of works shall also be undertaken by the contractor, payment for the same shall be released as per latest schedule of rates applicable in the J& K State Govt. Public Works Deptt. without any appreciation/depreciation thereon . If the said works are not covered in the schedule of rates, same shall be paid on LMR (lowest market rate) basis to be certified by the Officer in-charge of this Centre with maximum upto 10% contractors profit on approval of the Competent authority.
12. The consumption of material will be as per the engineering codes and those not covered in the code will be as per the manufacturer's guidelines.
13. The cement used at site should be fresh and of reputed make such as ACC, Gujrat Ambuja, Vikram, Khyber, JK cement or L&T and should conform to the specifications of relevant Indian Standards. The cement will be tested at site on random sample basis as per relevant Indian Standards for specification at the reputed third party laboratories available in/outside the region.
14. The samples of all building materials procured by the contractor for execution of work shall be got approved from the engineer in-charge before the start of the work.
15. The contractor shall be responsible for curing of all cement works. Any slackness towards the same will be viewed seriously and if in the opinion of the engineer in-charge, any damage to the works/building is caused due to inadequate curing then such work would be got dismantled and shall have to be re-laid by contractor at his own cost.
16. The water / electricity required for the work shall have to be arranged by the contractor at his own cost in sufficient quantity. The water should be free from dust, unwanted salts, chemical and other impurities.
17. All the taxes as applicable shall be applied / deducted on the gross value of the contract at the rates prevailing at the time of payment.
18. The firm / contractor registered with sales tax department shall only be eligible to tender the work. The contractor shall indicate his CST/GST & PAN/TAN particulars in the tender.
19. The contractor will abide by all labour laws and will be personally responsible for any casualty / eventuality / accident or any labour dispute during the execution and completion of the work.

20. The quantities advertised in the tender are based on tentative estimates, which can increase or decrease by 20% as per necessity at site.
21. Any item which is not found necessary at site during execution of work can be deleted and no claim whatsoever shall be entertained on the said account.
22. The watch and ward of all materials / machinery shall be responsibility of the contractor /agency.
23. The contractor at his cost shall conduct all necessary repairs of defective works within defect liability period of six months.
24. Defect liability period: - 85 % deposit of the contractor shall be released on the virtual completion, handing over and verification of the work. The remaining 15% deposit & E.M.D shall be released after six months from date of completion of the work on submission of report of the engineer in-charge after obtaining approval by the competent authority.
25. In case any dispute or difference arises between the parties with regard to interpretation or working of the agreement or rights, liabilities or duties arising out of it. The matter shall be referred to a sole arbitrator to be appointed the Director, DOEACC Centre, Srinagar /Jammu and the decision of the arbitrator shall be binding on both the parties.
26. Director DOEACC Centre Srinagar/Jammu reserves the right to reject/stop any work/works during their currency without assigning any reason.

Tender Specification for prefabricated Hall type structure

Supply and complete erection of prefabricated modified and δ PUF δ insulated shelter for Hall type space with following dimensions:-

- a. Length 40 ft
- b. Width 30 ft
- c. Height(upto false ceiling) 12 ft

Further the works will include the complete foundation and plinth work of following components:-

- A) Hall type space 30 x 40 ft
- B) Security Room 12 x 10 ft
- C) 3-Washrooms each of Size 10 x 8 ft

Design criteria:-

- i. Seismic í í í í í í í ZONE V
- ii. Snow-Load í í í í í í í í í ..1.5 meter. Standing Snow on Roof
- iii. Wind Speed í í í í í í í í 55 m/s (as per IS-875)
- iv. Temperature í í í í í í í í í (-) 40 ⁰C to (+) 50 ⁰C
- v. Roof Slope í í í í í í í í í .1:2

A) FOUNDATION WORKS:-

The width of foundation should be 18 inches and that of plinth should be 14 inches. The sub-base for plinth should be provided at a depth of 1.25 feet from ground level. The sub-base should be 200mm thick consisting of crushed stone aggregates with proper consolidation and ramming. Plinth protection of 0.75m has to be provided all around. (Reference- Foundation Drawing-1)

Earthwork has to be of 40mm earth filling with proper consolidation (58cum). This should be followed by providing 50mm crushed stone aggregates (250cum).

Flooring:- Should be of PCC 1:3:6

B) Main Structure of Hall type prefabricated structure:-

- a. **Steel Columns:-** Steel Trusses made up of rectangular MS Pipes of Size 120 mm x 60 mm x 4 mm.
- b. **Truss:-** MS Pipe of Size : 120 x 60 mm x 3.5 mm
- c. **Purlins:-** MS Pipe of Size : 120 x 60 mm x 3.5 mm
- d. **Walls:-** All around walls shall be made up of 60 mm thick Puff insulated Colour profile sheets Panel on both sides with Colour of Choice (Option).
- e. **False Ceiling:-** False Ceiling of 40 mm thick Puff Insulated Colour Profile Sheet panels.
- f. **Finishing:-** White Paint over a coat of Red Oxide Zinc Primer
- g. **All Door, Windows & Ventilators:-** should be of Aluminum Sections with auto door closing Hydraulic Machines

C) Technical Specifications for prefabricated structure

1. Wall Panels:-

- a) The main and partition walls will be made up of 40 mm thick of Lloyd panel system or equivalent made of 0.63 mm thick hot dipped galvanized steel on both side with 40 mm thick layer of rigid CFC free close cell polyurethane foam (Density 40 kg +/- 2 kg / Cum) insulation sandwiched panels. The wall panels will be provided with cam lock systems for inter locking. All materials required for the manufacture of cubical will be new and shall comply with relevant Bureau of Indian Standard specification and bear the mark.
- b) The PUF Insulation material in the panel will have fire retarding and self extinguishing properties as per any international standard B2 DIN 4103 Part I.
- c) GI Metal Skin PUF Panels.
- i) **Thickness of Skin-** 0.63 mm thick hot dipped galvanized steel sheets on inner and outer side with 50 micron thick PVC guard film on the finished surface only for protection against scratches during handling and transportation. Base metal of GI Skin CRCA as per IS-513, Galvanized as per GR- 120 & SI-277.

- ii) The Panels will be insulated with PUF Foam.
- iii) These panels are to be manufactured using high pressure dispensing machine of required capacity to inject specified amount of PUF chemical into the cavity of full panel in one shot not exceeding 25 sec duration. This is to ensure that the liquid PUF mixture is sprayed into the cavity before the foaming reaction starts so that the insulation core of the panel is formed in one piece and provides desired structural and physical properties. The bulk density of insulation should be 40 kg/cum and the impending machinery should be equipped with a PLC controlled pane for monitoring and controlling the injection rate to assure specified uniform density requirements.
- d) The pre coated GI sheet should have minimum coating of 4-5 micron epoxy primer and 25 micron polyester top coat on the finished surface and 7-8 micron primer alkyd backer on backside, which is bounded to the polyurethane foam. The pre coated GI sheet should conform to IS-14246-1995 with manufacturer test certificates conforming above specification.
- e) The PUF insulated core of these composite panels will have the following properties:-
- | | | |
|--------|---|--|
| i) | Density | - 40 + 2 kg per cum. |
| ii) | Compressive Strength at 10 % deformation | - 2.10 kg /cm ² |
| iii) | Tensile Strength | - 3.7 kg /cm ² |
| iv) | Bending Strength | - 4.0 kg / cm ² |
| v) | Adhesion Strength | - 2.90 kg/ cm ² |
| vi) | Dimensional Stability (48 hours) | - |
| | (aa) -25 ⁰ C | - 0.10% |
| | (ab) + 38 ⁰ C & 90% RH | - 0.10% |
| | (ac) + 100 ⁰ C | - 0.40% |
| vii) | Close Cell Content | - 90-95% |
| viii) | Temperature Range | - (-180 ⁰ to + 110 ⁰ C) |
| (ix) | Thermal Conductivity at 10 ⁰ C | -0.018 k-cal/m-hr ⁰ C |
| | (Design Value 0.020 k-cal/m-hr ⁰ C or 0.023 W/m-K) | |
| (x) | Fire Resistant | - (Horizontal Extent of burn BS 4735) < 125 mm |
| (xi) | Self Extinguishing ASTM D 1692 | Passes Pt 5 Class -1 as per BS |
| | (Fire retarded foam chemical) | |
| | Not easily ignitable as per BS: 476 | |
| (xii) | Water Absorption | -0.20% Volume at 100% RH |
| (xiii) | Water Vapour Permeability | -0.08 ó 0.12 gms / hr m ² |

- (f) The ISO 6 cyanide and poly liquid components used for in situ process of polyurethane foam for panels should be accompanied with correlating manufacture test certificate indicating batch No.s, date of manufacture and expiry dates.
- (g) All panels will be moulded in place using the above in-situ process after placing them in a hydraulic press with heated aluminum pattern and corner moulding so as to attain the desire finish, bonding and structural properties. All panels will be manufactured in single piece as per approved panel layout drawings using the above materials and manufacturing process.
- (h) The consignee can carry out inspection of any panel from the lot to ensure that above chemical and physical properties.
- (i) The colour of panels shall be appliance white colour on both internal and external faces.
- (j) **Panel joining arrangements:** Each panel will be complete with tongue and groove joint and will be provided with cam locks to insure rigid interlocking between panels.

2. **Openings:**

Doors and windows will be provided as shown in the drawing (line plan Drawing-2) and as per the specifications. Each door and window will be complete with aluminum fittings.

2.1 **SPECIFICATIONS OF SECTIONS FOR DOORS AND WINDOWS**

Sections for window shutter should be of 46x46mm

Sections for external frame should be of 46x52mm

Section for glass beading should be of 18x25mm

Centre mullion should be of 46x70mm

Shutters and fixed portion should be paneled with 4-12mm glass.

Sections for door shutter should be of 46x80mm

Sections for middle and bottom rail should be of 23x130mm

3. Roof:

a) Roof covering will be provided with insulated Roof panels made 0.63 mm thick hot dipped galvanized steel sheets on outer side and 0.45 mm thick (total coated thickness 0.50 mm) on outer side with 40 mm thick layer of high efficiency polyurethane foam of 40 kg/cum density insulation sandwiched. The external face of roof panels will be of green colour.

b) **Roof Projection:** The roof will have minimum projection of 0.30 m on three sides and 0.45 m in front side.

4. Work Man Ship:

a) **Connection:** The welded connections will be conformed to IS 806- 1968.

b) **Fabrication:** The general provisions in section 11 of IS 800 of 1984 will apply to all types of steel being used for fabrication.

c) All steel members will be provided with 2 coats of red oxide zinc chromate primer before supply.

d) **Various Fasteners and Fittings:** Fasteners and fittings of mild steel shall be supplied unless otherwise specified in and shall be fixed where reqd. fastening means will be provided for the items to be fitted at the time of erection. 10% spare nuts, bolts, \neq bolts and washers will be provided per shelter. The fasteners supplied shall conform to relevant BIS specification.

ESTIMATE/ SPECIFICATIONS FOR PREFABRICATED HALL TYPE STRYCTURE

S.NO	Particular of items/Specifications	Unit	Rate(to be quoted by contractor)
1.	Complete work for supply & erection of prefabricated hall type space with foundation works as specified in the tender document(Except for doors and windows)	Complete job	
2.	Aluminum doors and windows as per specifications given at 2.1	Rft	

Name and signature of the contractor
(Company seal to be affixed)



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MANUFACTURE WARRANTY

We M/s í í í í í í í í í í í í í .undertake that the structure (prefabricated) to be supplied by us hereunder shall be as per standards mentioned in tender document. Further we undertake that the structure shall be free from all embraces, defects & faults in materials, workmanships & manufacture shall be of high grade in full conformity with the specifications, drawings as per tender document..

We M/s í í í í í í í í í í í í í .. also undertake that in case the prefabricated structure is found to be defected, faulty or used at any sage shall be replaced by us at our cost.

Signature of the tenderer