

GOVERNMENT OF INDIA :: DEPARTMENT OF SPACE
SATISH DHAWAN SPACE CENTER SHAR :: SRIHARIKOTA – 524 124
SRI POTTI SREERAMULU.NELLORE DISTRICT (A.P)

TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/01/2019-2020

On behalf of President of India, Sr. Head Purchase and Stores, SDSC SHAR, SRIHARIKOTA invites **on line quotations** for the following.

SI No	Ref. No.	Description	Qty.
01	SHAR CMD 2019 0 10406 e-procurement [Two Part basis]	Comprehensive Annual Maintenance Contract for AC and REF Units at SDSC SHAR, Sriharikota and Chennai for the period of Two years from 01.10.2019 to 30.09.2022	1 LS
02	SHAR SPP 2019 0 10564 e-procurement [Single Part basis]	Design, preparation of Fabrication, machining, supply, inspection and testing for Horizontal Support Structure for NDT Facility	1 No.
03	SHAR CMD 2019 0 10693 e-procurement [Two Part basis]	Supply, Installation, Testing, commissioning of Panel Boards and Sandwich Bus Trunking system	1 Lot
04	SHAR SC 2019 0 10721 e-procurement [Two Part basis]	Rate Contract for Hiring of Light Vehicles for the period of Two years	1 Lot
05	SHAR SC 2019 00 10779 e-procurement [Single part basis]	Services providing security services for three housing colonies of SDSC SHAR, Sullurupeta	1 Lot

Last Date for downloading of tender documents : 29.04.2019 at 16:00 hrs.
Due Date for submission of bids online : 29.04.2019 at 16:00 hrs.
Due Date for Bid Sealing on : 29.04.2019 at 16:01 hrs. to 29.04.2019 at 17.30 hrs.
Due Date for Open Authorization : 29.04.2019 at 17.31 hrs. to 01.05.2019 at 17:00 hrs.
Due Date for opening of tenders : 02.05.2019 at 14:30 hrs.

Instructions to Tenderers:

No tender fee shall be applicable for tenders submitted through EGPS

01. For full details/scope of work and terms and conditions etc., please see the enclosed annexures.

02. Interested tenderers can download the e-tender from ISRO e-procurement website <https://eprocure.isro.gov.in> and submit the offer on line in the e-procurement portal. Offers sent physically by post/courier/in person will not be considered.

03. Tender documents are also available on ISRO website www.isro.org; ISRO e-procurement website <https://eprocure.isro.gov.in> and SDSC SHAR, Sriharikota website www.shar.gov.in. The same can be down loaded and offer submitted on line in the e-procurement portal.

04. Quotations received after the due date/time will not be considered.

05. The tender documents are available for download upto **29.04.2019 at 1600 hrs.** and **last date for submission of tenders on line 29.04.2019 at 1600 hrs.** and **Tender Opening on 02.05.2019 at 14:30 hrs.**

06. Sr. Head, Purchase and Stores, SDSC-SHAR, Sriharikota reserves the right to accept or reject any/or all the quotations.

DT: 03.04.2019

Sr. HEAD, PURCHASE AND STORES

Specifications of
HORIZONTAL SUPPORT STRUCTURE
FOR NDT FACILITY



Satish Dhawan Space Centre SHAR

Indian Space Research Organization

Sriharikota -524 124, A.P

Contents

S.NO	DESCRIPTION	PAGE NO.
1.0	SCOPE OF VENDOR.....	1
2.0	DESCRIPTION OF THE STRUCTURE.....	1
3.0	SPECIFIC REQUIREMENTS / INSTRUCTIONS TO CONTRACTOR.....	2
4.0	WELDING PROCEDURE.....	4
5.0	HEAT TREATMENT.....	5
6.0	MACHINING.....	5
7.0	SURFACE PREPARATION AND PAINTING.....	5
7.1	SURFACE PREPARATION.....	5
7.2	PAINTING.....	6
8.0	SUMMARY OF DATA TO BE FURNISHED AFTER ACCEPTANCE OF PURCHASE ORDER.....	7
9.0	SHOP INSPECTION.....	8
10.0	RELIABILITY AND QUALITY ASSURANCE PLAN.....	8
11.0	GENERAL TERMS AND CONDITIONS.....	9
11.1	VALIDITY OF OFFER.....	9
11.2	DELIVERY SCHEDULE.....	9
11.3	PRICE BID SUBMISSION.....	10
11.4	TAXES AND DUTIES.....	10
11.4.1	GST.....	10
11.4.2	CUSTOMS DUTY.....	10
11.4.3	INCOME TAX.....	10
11.5	PAYMENT TERMS.....	10
11.6	DELIVERY TERMS.....	11
11.7	PACKING.....	11
11.8	TRANSPORTATION.....	11
11.9	INSTALLATIONS, TESTING & COMMISIONING	11
11.10	LIQUIDATED DAMAGES	12
11.11	PERFORMANCE BANK GUARANTEE.....	12
11.12	SECURITY DEPOSIT.....	12
11.13	WARRANTY	12
11.14	APPLICABLE LAW AND JURISDICTION.....	13
11.15	FORCE MAJEURE	13

11.16	ARBIRATION.....	14
12.0	VENDOR PRE-QUALIFICATION CRITERIA.....	14
13.0	DETERMINATION OF RESPONSIVENESS.....	15
14.0	VENDOR EVALATION FORMAT.....	15
14.1	FOR INDIGENOUS VENDORS.....	16
ANNEXURE –I:		
	SCHEDULE OF PRICES.....	19
	EXPECTATIONS AND DEVIATIONS.....	20

1. SCOPE OF VENDOR

- a) The scope of this tender covers design, preparation of fabrication drawings, fabrication, supply, machining, inspection and testing at vendor's / sub-vendor's works, painting, packing, transportation to consignee site, unloading at site, load testing of Horizontal Support Structure (HSS) at SDSC SHAR, Sriharikota-524 124, India.
- b) After receipt at purchaser site, structure shall be load tested to safe working load (SWL) and over load test ($1.25 * SWL$). Department will provide loads and necessary handling equipment for carrying out load test.
- c) It is not the intent to specify completely herein all details of design, supply, manufacture and construction of "structure steel work". However, the structural steel work, materials and services shall conform in all respects to the relevant latest IS standards of workmanship and be capable of performing in continuous commercial operation in a manner acceptable to the DEPARTMENT.
- d) The entire scope of work shall be supplied within 6 months from the date of receipt of purchase order.

2. DESCRIPTION OF THE STRUCTURE

- a) The dimensions of the structure shall be 9000 mm (L) x 6200 mm(w) x 2200 (H).
- b) The SWL of structure shall be 125t.
- c) The structure shall be fabricated with plates and the construction shall be with box sections.
- d) The allowable deflection shall be "span/1000".
- e) The centre distance between two legs shall be 7450 mm along length side and 5550 mm along width side.
- f) 18 number of M24 tapped holes shall be provided on the structure.
- g) For handling the structure lifting brackets shall be provided on the structure at suitable locations.
- h) The structure is intended to be used to carry a cylindrical object on a set of two roller stands.
- i) The roller stand units will be used to rotate the object on top of the structure for radiographic coverage and the maximum angular speed is limited to 1 rpm (approx.).
- j) Case-I loading arrangement of the structure along with roller stand units and the object is as shown in figure 2. In this arrangement the roller stands are positioned at the ends.

- k) Case-II loading arrangement of the structure along with roller stand units and the object is as shown in figure 3. In this arrangement one roller stand is at one end and other one near to the centre.
- l) As the load (object + Roller stands) is to be transferred to the structure through base frame of roller stands, the supplier shall take into account base frame dimensions of roller stands.
- m) Machined plates of required thickness shall be provided on top of the structure for both case-I and case-II loading as shown in figures 2 & 3.
- n) In designing the structure, the factor of safety on yield stress shall not be less than 2.5.
- o) The supplier shall note that the structure will be located on a finished concrete floor without any kind of bolting or fastening.
- p) The combination of HSS+ Roller Stands+ Object (Figure 4) will be lifted and transported from one building to other building by Self-Propelled Unit (SPU: KAMAG) vehicle. For this purpose, at bottom four corners of the structure, a suitable box sections (4 nos.) shall be provided as per Figure 5.
- q) The transport arrangement of HSS+ Roller Stands+ Segment with KAMAG is as shown in Figure 6.

3. SPECIFIC REQUIREMENTS / INSTRUCTIONS TO CONTRACTOR

- a) All the materials required as stipulated in this scope of work shall be in the scope of vendor's supply. Wastage also included in the rate offered by vendor. Shall use structural steel of SAIL, Jindal, Tisco, Essar or Vizag steel plant make.
- b) Fabrication of load bearing structures shall be executed in a controlled manner. This means that all executed checks, tests and inspections are documented in the manufacturing report.
- c) Vendor shall consider the machining and thinning / rolling allowance for selection of plate thickness.
- d) All tools and tackles along with necessary measuring and testing of structural steel works required right from supply to final commission shall be in the scope of the Vendor.
- e) Structure shall be load tested to 1.25 times of the safe working load at purchaser site after obtaining prior permission from DEPARTMENT. Department will provide loads and necessary handling equipment for carrying out load test. SWL of the structure is 175t. The maximum deflection of the structure shall be less than "span/1000" with the rated load.

- f) Bidder shall sign and stamp each page of tender as token of his acceptance & submit along with his offer. Document shall be scanned and uploaded in e-procurement portal. In case it is not possible to upload due to higher file size, hard copy of the balance documents (without any price figures) shall be submitted physically before due date.
- g) Bidders shall set their quotations in firm figures and without qualifications or variations or additions in the terms of the Tender documents. Proposal containing qualifying expressions such as "subject to minimum acceptance" or "subject to prior sale" or any other qualifying expressions or incorporating terms and conditions at variance with the terms and conditions incorporated in the Tender documents are liable to be rejected.
- h) Bidder should award any part of the work under the scope of this tender to any sub vendor only after obtaining necessary approval from the department. Bidder shall submit relevant information as required by the department. Department has every right to accept or reject the proposal submitted. Approval of the department is no way relieves the bidder from his responsibility and the bidder is wholly responsible for execution of work as per the specifications, terms, and conditions mentioned in this document.
- i) Bidder shall indicate clearly such of those works planned to offload to his sub-vendor.
- j) The erection works at this facility requires that, the party (successful bidder) shall adhere to good daily housekeeping practices. During erection, the party shall keep all work and storage areas used by them free from accumulation of waste materials. Scrap shall be removed from the site to the satisfaction of the purchaser.
- k) Satish Dhawan Space Centre – SHAR (SDSC-SHAR) Sriharikota is declared as prohibited place under official secrets act 1923. Hence during execution of site works necessary security requirements enforced by the department from time to time shall be followed strictly.
- l) SDSC SHAR shall have the right of inspection and supervision of the manufacturing process adopted by the Supplier for the manufacture of equipment at various stages through their authorized representatives. In case the manufacturing process adopted is not found suitable and commensurate with the desired quality of the equipment, the Supplier will be advised to adopt the correct manufacturing process which will be binding on the Supplier. SDSC SHAR's decision regarding the quality of work and its acceptability shall be final and binding on the Supplier.

- m) Defects in the material like fractures, cracks, blow holes, laminations, pitting, etc., are not allowed.
- n) During the erection, testing and commissioning of structure at site in Sriharikota, the supplier has to make his own arrangements for boarding, lodging and transportation of his men and materials. However, subjected to availability, hostel accommodation may be provided by the Purchaser (SDSC SHAR) on chargeable basis.
- o) Free electricity and water will be provided by the Purchaser (SDSC SHAR) for the erection, testing and commissioning works at the site. Bidder shall take into this while quoting the price.
- p) For unloading / site fabrication works, if mobile crane is required the same will be provided by department on chargeable basis.
- q) Tools and belts, other than those mentioned under free issue items, required shall be arranged by the party.
- r) Before starting the site work (at SDSC SHAR), the party shall provide insurance as per workman compensation act to all his personnel working at site in Sriharikota against accidents. Till commissioning of structure, the safe storing and handling of structure is in the scope of supplier. Insurance for the same shall be borne by the party.
- s) Quote shall be based on F.O.R. Sriharikota.

4. WELDING PROCEDURE

- a) The welding equipment, welding consumables, preheating, post weld Heat treatment (PWHT), other auxiliary functions and welding personnel shall comply with all currently applicable statutes and regulations.
- b) Surface to be welded shall be smooth, uniform and free from fins, tears and other defects, which would adversely affect the quality of the weld.
- c) Joints for welding shall be as per the standard specifications and approved fabrication drawings.
- d) All the welds are to be dye-penetrant (DP) tested for both root pass and final runs.
- e) Welding shall be carried out by qualified welders according to IS 817- 1966.
- f) All the welds are to be tested by dye penetrant test as per Art-24 CODE SE 165 Section – V ASME.

- g) All butt welds shall be 100% radiographed and corresponding reports shall be furnished to the purchaser.

5. HEAT TREATMENT

- a) **Preheating:** The preheating zone shall extend 75 mm or a distance equal to four times the material thickness, whichever is greater, beyond the edge of weld. The preheat temperature shall be measured at least 75 mm away from the weld preparation. Oxy-Acetylene preheating shall not be applied. The recommended preheat temperature is 100°C for above 25 mm thick plates or as per IS standard.
- b) **Post Heat Treatment:** When local stress relief is employed, the welded joint shall be heated to a temperature of not less than 600°C. The temperature level shall be maintained between 600°C to 650°C, one hour per 25 mm of weld thickness but in no case less than one hour. The weld area shall then be allowed to cool undisturbed in still air to a temperature not exceeding 315°C.

6. MACHINING

Vendor shall carryout the machining work as specified in the drawings. Where ever it is required and not mentioned in the drawing, shall be complied with IS 2102. All drilled and tapped holes shall be properly deburred.

7. SURFACE PREPARATION AND PAINTING

7.1 SURFACE PREPARATION

- a) All the surface of steel work to be painted shall be thoroughly cleaned of all loose mill scale, rust, grease, dirt and other foreign matter. The type of surface treatment shall be as specified in the respective item of work. The workmanship shall generally conform to the requirements of IS1477- Part I.
- b) Oil and grease removal shall be carried out either by solvent cleaning or by using alkali type degreasing agents. To remove grease material the surface shall be cleaned with solvents containing emulsifier. After cleaning, the surface shall be washed with water. When the surface has cement pelts or salts, the cleaning shall be done with strong alkalis. After cleaning, water rinsing and subsequent passivation by dilute chromic acid rinsing shall be carried out to ensure that no traces of alkali is left on the surface. The procedure for cleaning by above mentioned methods should be as per paint manufacturer's instructions.

c) De-rusting and de-scaling of steel shall be carried out either manually, mechanically or chemically.

- Manual or Hand Tool Cleaning:

Loose mill scale, loose rust and loose paint shall be removed by wire brushing, scrapping, chipping and rubbing with abrasive paper or steel wool. This method shall not be employed when the surface has firmly adhering mill scale. After hand tool cleaning, the surface shall be rubbed with sand paper so as to ensure that no loose material exists and the surface shall be dusted off.

- Mechanical Surface Preparation with power tool cleaning:

The surface prior to such cleaning shall be cleaned of dust; grease etc. and heavier layers of rust shall be removed by chipping. The power tool cleaning shall remove loose mill scale and rust by adopting very thorough scrapping, grinding and machine brushing. After the surface is cleaned by compressed air, it shall have a pronounced metallic sheen.

7.2 PAINTING

a) All the exposed carbon steel surfaces shall be painted as per following

- Surface Preparation: Cleaning by wire brush or power tools to remove any loose dirt or mill scales from the surface.
- Sand blasting shall be carried out to clean the surfaces before painting operation.
- Spray painting shall be carried out for primer and paint.
- Primer: One coat of zinc rich primer with red oxide and zinc phosphate pigments to achieve total DFT of 70 to 75 micron.
- Final Coat: Two coats of epoxy paint of total 80 micron DFT.
- Color – The structure shall be painted with apple green color. The front and back side (along 6.2 m width side) shall be painted with yellow / black stripes. Party shall get approval prior to painting.
- Total DFT shall be 80 microns (min.)
- Any intermediate cleaning required between successive coats of paint shall also be carried out as per manufacturer's standard.

- Final coat of paint shall be applied after erection at our site. However, final coat shall be applied to surfaces that become in accessible after erection.
 - Necessary tools like compressor, spray gun and consumables shall be provided by the party.
 - Proper masking shall be carried out where ever required.
- b) Wherever box sections are provided, the inside surface shall be cleaned and painted with zinc rich epoxy to a thickness of 65 microns (DRT) prior to closing the section.
 - c) Weld region painting shall be carried out at purchaser's site after full load test subject to clearance by DP testing. Till such time, all welds shall be protected from environment by application of grease.

8. SUMMARY OF DATA TO BE FURNISHED AFTER ACCEPTANCE OF PURCHASE ORDER

The vendor shall ensure the following documents are prepared and submitted to PURCHASER for his review / record.

- a) Design calculations document with drawings showing working stresses and deflection shall be submitted for approval by the purchaser. Supplier shall start the fabrication of the structure only after obtaining approval of design calculations and drawings from the purchaser.
- b) Quality Assurance Plan (QAP)
- c) Detailed structural works list and bill of materials of all items in the Vendor's scope.
- d) Dimensions to-scale structural steel layout / cross-section drawing showing all fabrication details and materials of constructions.
- e) As-built drawings.
- f) Test Certificates (physical and chemical) for all raw materials.
- g) Procedures for Welding, Qualifications of Welders, Painting and Finishing
- h) Transportation Plan
- i) Erection and Commissioning Plan
- j) Inspection and Testing Plan
- k) Dimensional inspection reports generated during entire fabrication process, erection and commissioning.
- l) All the reports generated during fabrication including material test certificates and other NDT tests.

m) Final as built drawings, 2 sets hard copy and one set soft copy in *.dwg format.

9. SHOP INSPECTION

Shop inspection and tests as per specified codes and standards shall be arranged by VENDOR, to enable the PURCHASER / Third party Inspector to inspect the structural steel works. In the event of waiver to any inspection / test as intimated by PURCHASER, VENDOR shall submit test certificates for PURCHASER’S approval.

10. RELIABILITY AND QUALITY ASSURANCE PLAN

The inspection procedures shall be categorized as follows:

- a) Category A: Stage-wise and final inspection including review of documents by Department.
- b) Category B: Stage-wise and final inspection including review of documents by Vendor. Department shall perform inspection and review documents.
- c) Category C: Final inspection and review of documents shall be carried out by the Vendor. Department shall carry out the final review of documents.

The minimum requirements for ensuring quality at various stages are spelt out below. However, the reliability and quality assurance plan shall be prepared by the vendor and will be reviewed and approved by Department.

The following are the basic inspection requirements to be followed upon receipt of raw material:

Review of material test certificates	Category C
UT of plates for thickness	Category A

The following are the minimum in-process tests that shall be carried out:

Welding procedure & welder / welding operator’s performance qualification	Category C
<ul style="list-style-type: none"> • <u>FOR LOAD BEARING STRUCTURES:</u> 	
100% DPT for fillet welds.	Category B
100% RT for butt welds.	Category A
<ul style="list-style-type: none"> • <u>FOR OTHER STRUCTURES / GENERAL:</u> 	
100% DPT for flame cut edges for plate thickness.	Category B

100% DPT after back gouging.	Category B
100% DPT for fillet welds when both plates exceeds 25 mm thickness.	Category B
100% DPT for fillet welds between tension flanges and webs.	Category B
100% RT for butt welds	Category A

Heat treatment (Preheating and post weld heat treatment) shall be carried out as the following

For carbon steel plates where thickness exceeds 25mm	Category C
All other components as referred to the drawings	Category C

The following are the final inspection / test that shall be carried out:

Visual and dimensional inspection	Category A
Trial assembly	Category A
Blue matching for flanges	Category A

11. GENERAL TERMS AND CONDITIONS

11.1 VALIDITY OF OFFER

The offer shall be valid for 180 days from the date of opening the bids. In case of any delay in obtaining technical clarifications from the supplier due to incomplete bid, the validity shall be extended accordingly.

11.2 DELIVERY SCHEDULE

- a) Delivery date is essence for this contract. Party shall adhere to the delivery date mentioned in this tender and same shall be confirmed along with the offer. In case Party is unable to meet the delivery schedule, the offer is liable for rejection.
- b) The structure shall be supplied to SDSC SHAR within Five months from the date of award of purchase order.
- c) Erection and commissioning shall be completed within One month from the date of receipt at site.

- d) Intermediate milestones as identified mutually after placement of order shall be met with.

11.3 PRICE BID SUBMISSION

Price shall be quoted as per the format enclosed in Annexure-1.

11.4 TAXES AND DUTIES

11.4.1 GST

The applicable rate of GST (CGST / SGST / IGST / UGST) shall be clearly mentioned along with the concerned HSN code / SAC. As per the Notification No.47/2017 - Integrated Tax (Rate) dt.14 Nov, 2017 issued by the Government of India, Ministry of Finance (Department of Revenue), we are eligible for reduced rate of 5% IGST. Exemption Certificate as required under the said notification will be provided along with the Purchase Order.

11.4.2 CUSTOMS DUTY

- a) The Purchaser is eligible for concessional Customs Duty exemption as per Notification No.05/2018 dated 25-01-2018. This may be taken into account while quoting for import items.
- b) In case tender offering items considering the customs duty exemption, they shall also indicate the price, separately, with customs duty component and terms and conditions thereto.

11.4.3 INCOME TAX

Income tax at the prevailing rate as applicable and if applicable from time to time shall be deducted from the supplier's bills as per Income Tax Act and a certificate issued (TDS Certificate).

11.5 PAYMENT TERMS

- a) Our general payment term is 100% within 30 days from the date of commissioning and final acceptance.
- b) Wherever advance payment (maximum of 30 % order value) is requested, Bank Guarantee of equivalent amount from any Nationalized Bank / Scheduled Bank should be furnished. In case of advance payments, if the party is not supplying the material within the delivery schedule, interest will be levied as per the Bank Lending Rate plus 2% penal interest.
- c) Interest will be loaded for advance payments/stage payments as per the lending rate of Bank and will be added to the landed cost for comparison purpose. In case of different

milestone payments submitted by the parties, a standard and transparent methodology like NPV will be adopted for evaluating the offers.

11.6 DELIVERY TERMS

- a) The rate quoted shall be on FOR SDSC SHAR, Sriharikota basis.
- b) Safe transportation of material from ex-works to SDSC SHAR is the responsibility of supplier.
- c) Insurance charges during transportation from Manufacturer's site to SDSC SHAR are the responsibility of the supplier.

11.7 PACKING

- a) The Supplier wherever applicable shall pack and crate all stores in accordance with standard accepted export practices and in such a manner so as to protect it from damage and deterioration in transit by road, rail. The Suppliers shall be held responsible for all damages due to improper packing.
- b) The supplier shall ensure that each box unit of shipment is legibly and properly marked for correct identification of content inside. Failure to comply with this requirement shall make the Supplier liable for additional expenses involved.
- c) The Supplier shall provide complete shipment information to the purchaser regarding the weight, size, content of each of the packages.

11.8 TRANSPORTATION

- a) After completion of fabrication, the structure shall be transported to our site.
- b) Transportation scheme shall be submitted for review / approval.
- c) Road survey shall be carried out.
- d) Party shall take necessary clearance from National Highway Authority of India and all other concerned departments / authorities to transport the structure from Party's site to SDSC SHAR if required.

11.9 INSTALLATION, TESTING & COMMISSIONING

- a) The entire commissioning and testing shall be completed within 30 days after receipt of the item at SDSC SHAR based on the site clearance given by department / purchaser. The above 30 days includes the total time period of 6 months.

- b) Supplier shall submit all the test certificates of systems tested at supplier's site.

11.10 LIQUIDATED DAMAGES

In the event of the Supplier failing to complete the work within the delivery period specified in the contract agreement or any extension agreed thereto, the Purchaser shall reserve the right to recover from the Supplier as liquidated damages, a sum of **0.5** percentage per week or part thereof of the undelivered portion of the total contract price of equipment or work. The Total liquidated damages shall not exceed the **10.0** percentage of the total Contract price.

11.11 PERFORMANCE BANK GUARANTEE

PBG at 10% of the value of the Purchase Order shall be submitted through bank guarantee from any of the Scheduled Banks executed on non-judicial stamp paper of appropriate value, and shall be valid for a period of sixty days beyond the date for completion of warranty period.

11.12 SECURITY DEPOSIT

- a) Party shall submit security deposit, within 15 days from the date of order placement, for 10% of the total order value. Security Deposit shall be obtained through Bank Guarantee or fixed deposit receipt from any of the Scheduled Banks executed on non-judicial stamp paper of appropriate value, and shall be valid for a period of sixty days beyond the date for completion of the Purchase Order.
- b) In case the vendor fails to furnish the security deposit within the specified date or extended due date, the Purchase Order/Contract shall be cancelled, and the EMD, if any, made earlier shall be forfeited, and, in addition, appropriate penal action will be considered.
- c) Central PSUs / PSEs / Autonomous Bodies shall be exempted from the payment of Security Deposit, and instead, an Indemnity Bond shall be submitted by them in lieu of the Security Deposit.

11.13 WARRANTY

- a) The supplier shall provide twelve months warranty for the entire system for a defect liability, after final official handing over at his cost. During this period supplier has to provide and adhere to the following:

- b) This period shall include maintenance, replacement of defective / failed parts at free of cost.
- c) Supplier has to attend unlimited breakdown calls.
- d) Purchaser will not provide any transport/accommodation for this purpose.
- e) Upon oral or written notification of defects in or malfunctioning of the goods during the warranty period which require corrective action, Supplier shall send the necessary personnel to job site to supervise and assume responsibility for repairs and/or replacement, if necessary, of the defective goods or material at his own cost. If Supplier does not, within seven (7) days after receipt of notification, take steps to correct the breach, Purchaser may do so at the cost and expense of Supplier. Supplier shall reimburse Purchaser all expenses incurred by Purchaser to repair or replace malfunctioning or non-conforming goods.
- f) Purchaser has no obligation to discover defects, patent or otherwise, and this shall be sole responsibility of Supplier. Inspection and clearance for shipment by Purchaser's inspectors or Inspection agency appointed by Purchaser shall not relieve Supplier of any of his obligation and duties under the terms and conditions herein.
- g) Where defects in items are remedied under warranty, the period for which the warranty operates shall be extended by such period, as the items were not available to the Purchaser. Where defects items are replaced by new ones, the full warranty period stipulated in the contract shall apply to such replacement items as from the date of their delivery.
- h) Supplier shall obtain similar warrantee from each of his sub-suppliers. However, the overall responsibility shall lie within the Supplier.

11.14 APPLICABLE LAW AND JURISDICTION

The contracts shall be interpreted in accordance with the laws of the Union of India. Any legal issue or dispute arising out of the contract are within the jurisdiction of Courts in the state of Andhra Pradesh, India only.

11.15 FORCE MAJEURE

Neither party will be held responsible for non-fulfillment of their respective obligations under this agreement due to the exigency of one or more of the force majeure events such as but not limited to Acts of God, war, flood, earthquake, strike, lock-outs, epidemics, riots, civil commotions etc., provided on the occurrence and cessation of any such events, the

party affected thereby will give a notice in writing to the other party within one month of such occurrence or cessation. If the force majeure conditions continue beyond six months, the parties will then mutually decide about the future course of action.

The agreement contains the modalities, terms and conditions of different services during the development, testing and commissioning phases.

11.16 ARBITRATION

Difference of opinions, if any arising during the period of agreement will be settled on the basis of mutual consultation by the signatories or their designated nominees. In the event of an unresolved dispute, both parties hereby agree to refer the matter under dispute for joint resolution by Secretary, DOS or his nominee and the joint decision shall be final and binding on both the parties.

The development activities under the contract shall, however, continue during the period of arbitration.

12. VENDOR PRE-QUALIFICATION CRITERIA

S. No	CRITERIA	Vendor Compliance (YES*/NO)
12.1	The Tenderer shall have atleast 5 years of experience in design and fabrication of structures.	
12.2	Tenderer shall have fabricated and supplied a single structure of weighing minimum 15ton	
12.3	Average annual financial turnover of the tenderer during the last three years, should not be less than Rs. 100 Lakhs INR or equivalent amount in foreign currency and it should be supported by Audited Annual Financial Accounts Report (Last three years balance sheet / profit or loss account statements shall enclosed).	

12.4	Latest solvency certificate from a scheduled bank for a value of 25 Lakhs.	
12.5	<p>Copies of the completion certificate/performance certificate and one reference for contact from your client organization shall be furnished. Performance demonstration of similar kind of machine supplied by tenderer at manufacturer site shall be arranged, if called.</p> <p>Purchaser reserves the right to evaluate vendor & its sub contractor capability to supply the indented Automatic Film Processor to this tender specification and reject, if not capable.</p>	
12.6	Tenderer shall submit other information in the enclosed vendors evaluation format. The bid submitted without the evaluation format will not be considered for evaluation.	
*if YES please support with valid documents as proof.		

13. DETERMINATION OF RESPONSIVENESS

The bid which does not satisfy the pre-qualification criteria as mentioned above (refer point no. 12) shall summarily be rejected and shall not be considered for further evaluation. SDSC SHAR will scrutinize bids to determine whether the bid is substantially responsive to the requirements of the tender documents. For the purpose of this clause, a substantially responsive bid is one which inter-alia conforms to all the terms and conditions of the entire Tender document without any deviations and reservations. The decision of purchaser shall be final in this regard.

14. Vendor Evaluation Format

SDSC SHAR seeks response to the following questionnaire for assimilating data which would be used for evaluating the capability of the vendor for executing the referred work. Hence,

the vendor is requested to provide only genuine data and any discrepancy found at a later point of time may result in rejection of the vendor from purchase process. Furnishing of data cannot be construed as automatic qualification for participation in the tender. Questionnaire should be signed by a responsible and authorized person of the Company / Agency.

14.1 For Indigenous vendors

Tenderer shall submit the following information along with the techno-commercial bid.

S. No	Description	Vendor Response		
1.	Name of the company :			
2.	Type of the Company : (Proprietary/Pvt.Ltd/Public Ltd/Joint Venture/Consortium)			
3.	Registration number & certificate :			
4.	Name & Address of the Office of the Chief Executive of the Company :			
5.	Contact person for this tender with name & address and contact number :			
6.	From which year the Company is in operation :			
7.	IT returns for the last 3 years :			
8.	Financial parameters :			
	In Rs. Lakhs only	2015-16	2016-17	2017-18
	Turnover ` in lakhs :			
	Profit/Loss in Rs. lakhs :			
9.	Details of availability of design, 3-D Modeling, Analysis software	Software	No. of licenses	No. of Persons familiar to work on software

S. No	Description	Vendor Response		
10.	Details of availability of machinery and Testing equipments	Machine Type	Qty	No. of Persons familiar to work
11.	Manpower details	Description	No. of Persons	Remarks
		Design & Analysis		
		Technicians		
		Engr / Supervisor		
12.	The major customers for whom similar : works are provided (Enclose copies of the Purchase Orders)			
13.	Any customers feedback on the services : which is in writing (Pl. enclose copies)			

12.1.1 Details of experience of contractor in executing similar type of works which are completed

Sl. No	Full postal address of the client with Contact Person	Description of the work	Value of the work (Rs. in Lakhs)	Completion Time as per PO	Actual period of completion	Reasons for delay
1						
2						
3						

4						
---	--	--	--	--	--	--

Note: In order to consider as valid experience, all the experience has to be supported with the completion certificate and purchase order

12.1.2 Details of present works being executed by the contractor

Sl. No	Full postal address of the client with Contact Person	Description of the work	Value of the work (Rs. in Lakhs)

Note: copy of purchase orders may be enclosed.

Signature of Authorized Person with Seal

Annexure-1

SCHEDULE OF PRICES

S. No	Description	Unit	Cost (in Rs.)
1.	Design, preparation of fabrication drawings, fabrication, supply, machining, inspection and testing at vendor's / sub-vendor's works, painting, packing, transportation to consignee site, unloading at site, load testing of Horizontal Support Structure (HSS)	Lump sum	
2	GST on item in S.No.1	%	
3.	Transportation Charges for S.No.1	Lump sum	
4.	GST on item in S.No.3	%	
5.	Installation, Testing and Commissioning charges for S.No.1	Lump sum	
6.	GST on S.No. 5	%	
Total Cost (Sum of S. Nos. 1 + 2 + 3 + 4 + 5 + 6)			

(SIGNATURE OF SUPPLIER)

EXCEPTIONS AND DEVIATIONS (FORM-J)

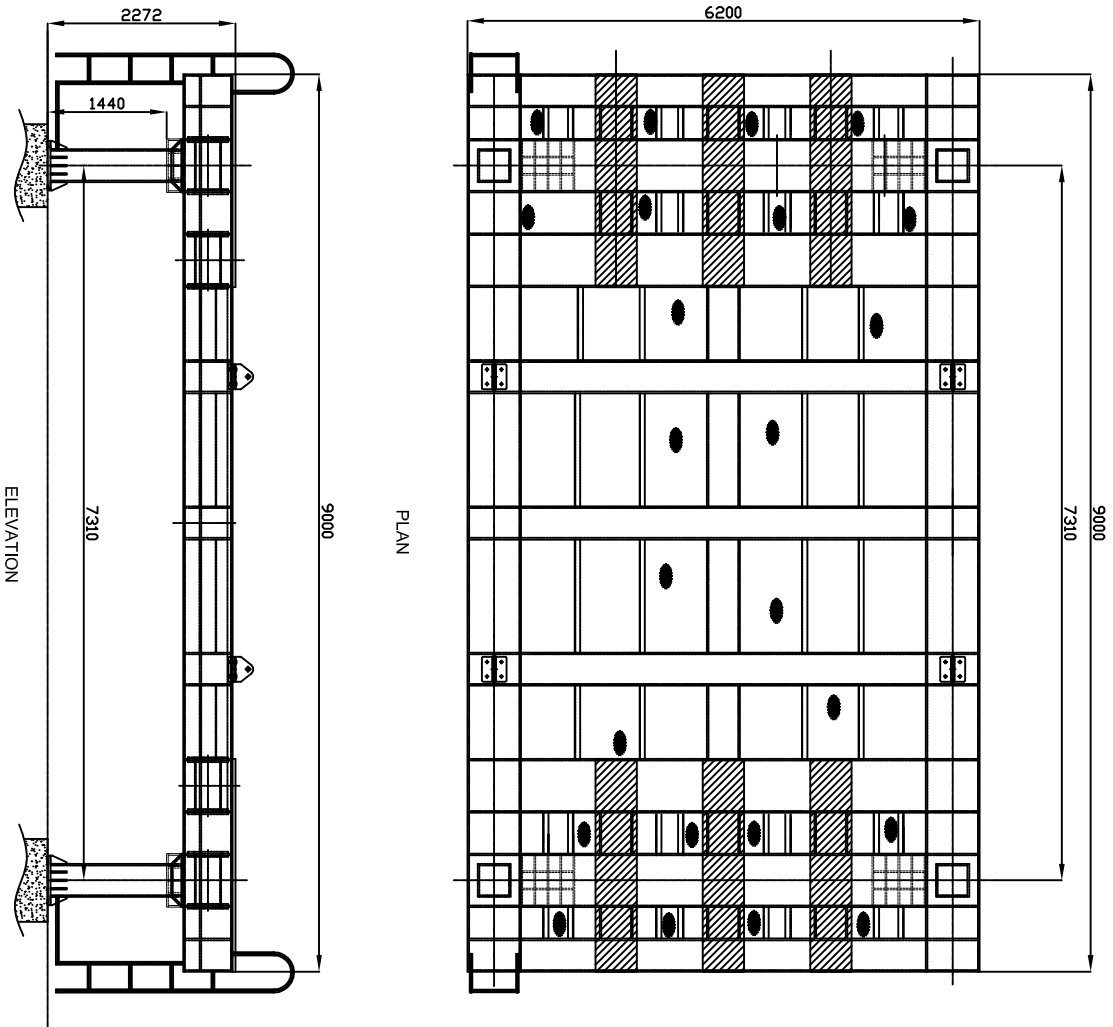
In line with Proposal Document, Bidder may stipulate Exceptions and deviations to the Proposal conditions if considered unavoidable.

SL. NO	Reference in Specification		Dept. Specification	Offered Specification	DEVIATION
	PAGE NO	CLAUSE NO			

NOTE :

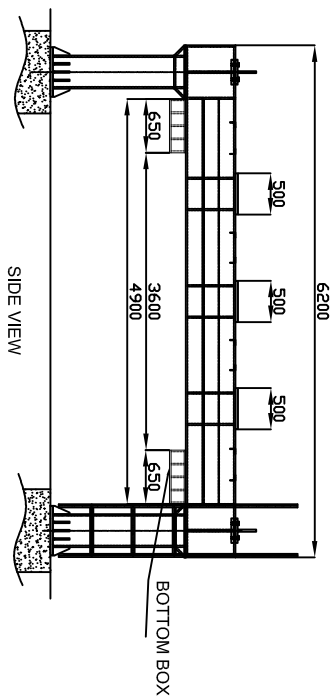
- i. Only deviations are to be written in this FORM-J.
- ii. Any deviations taken by the Bidder to the stipulations of the Proposal document shall be brought out strictly as per this format and enclosed along with the bid.
- iii. Any deviations not brought out as per this Proforma (FORM-J) and written elsewhere in the Proposal document shall not be recognized and the same is treated as null and void.
- iv. Any willful attempt by the Tenderer to camouflage the deviations by giving them in the covering letter or in any other documents that are enclosed may render the Bid itself non-responsive.

(SIGNATURE OF BIDDER)



PLAN

ELEVATION



SIDE VIEW

BOTTOM BOX

NOTE:

18 NOS. OF M24 TAPPED HOLES SHALL BE PROVIDED ON THE STRUCTURE AND THE LOCATION WILL BE PROVIDED DURING FABRICATION

Fig 1. Horizontal Support Structure

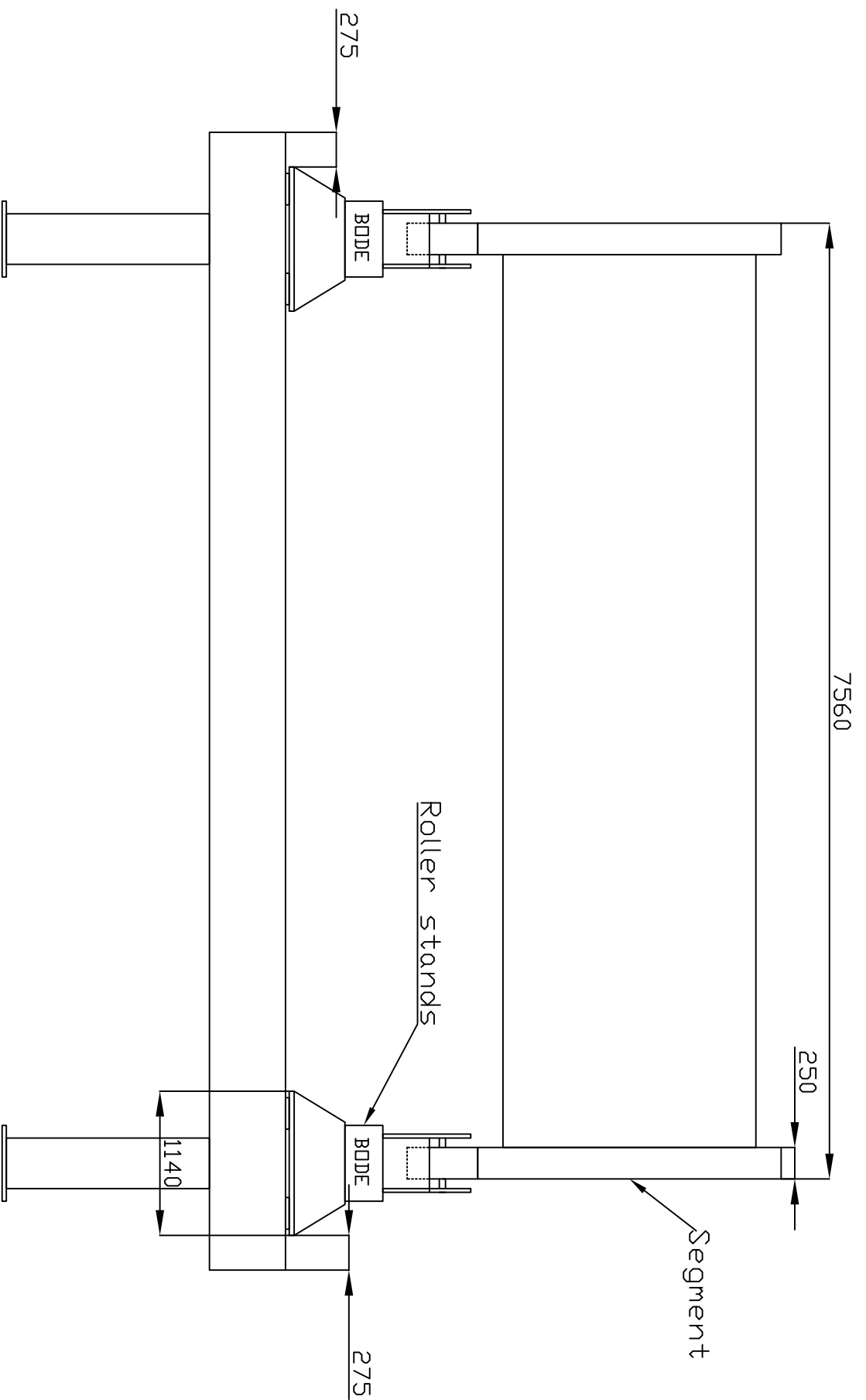


Fig 2. Case-1 loading arrangement

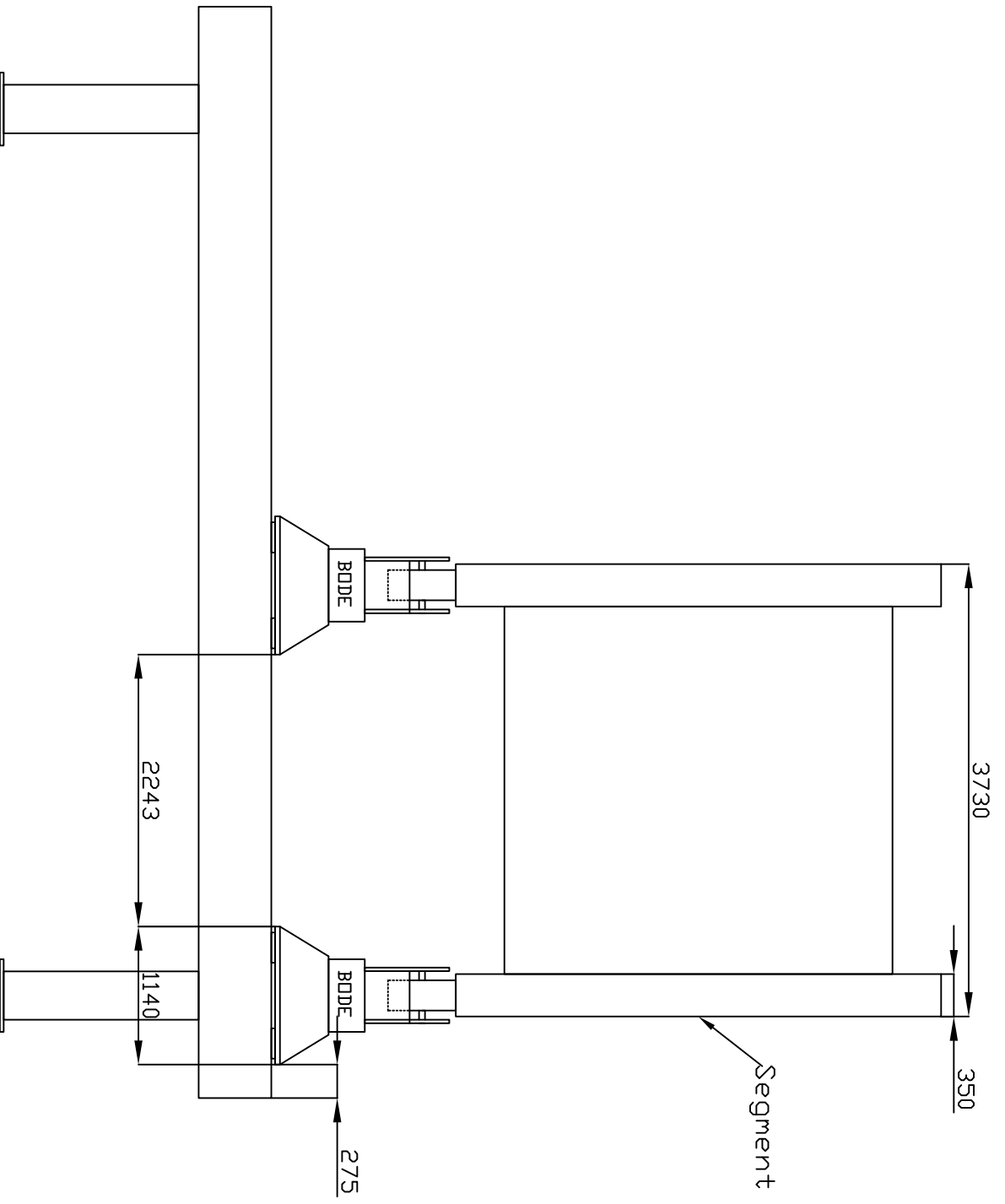


Fig 3. Case-2 loading arrangement

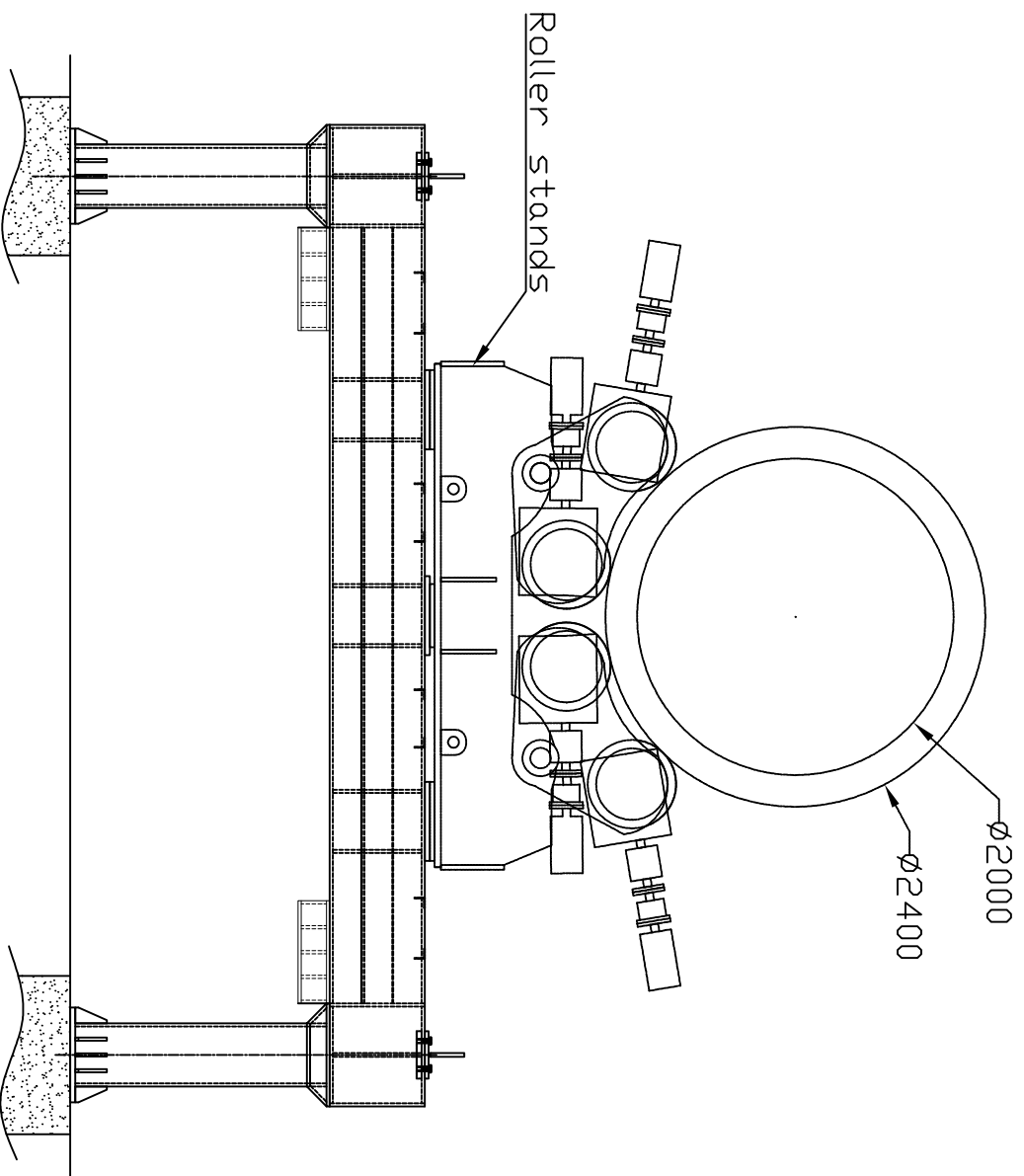
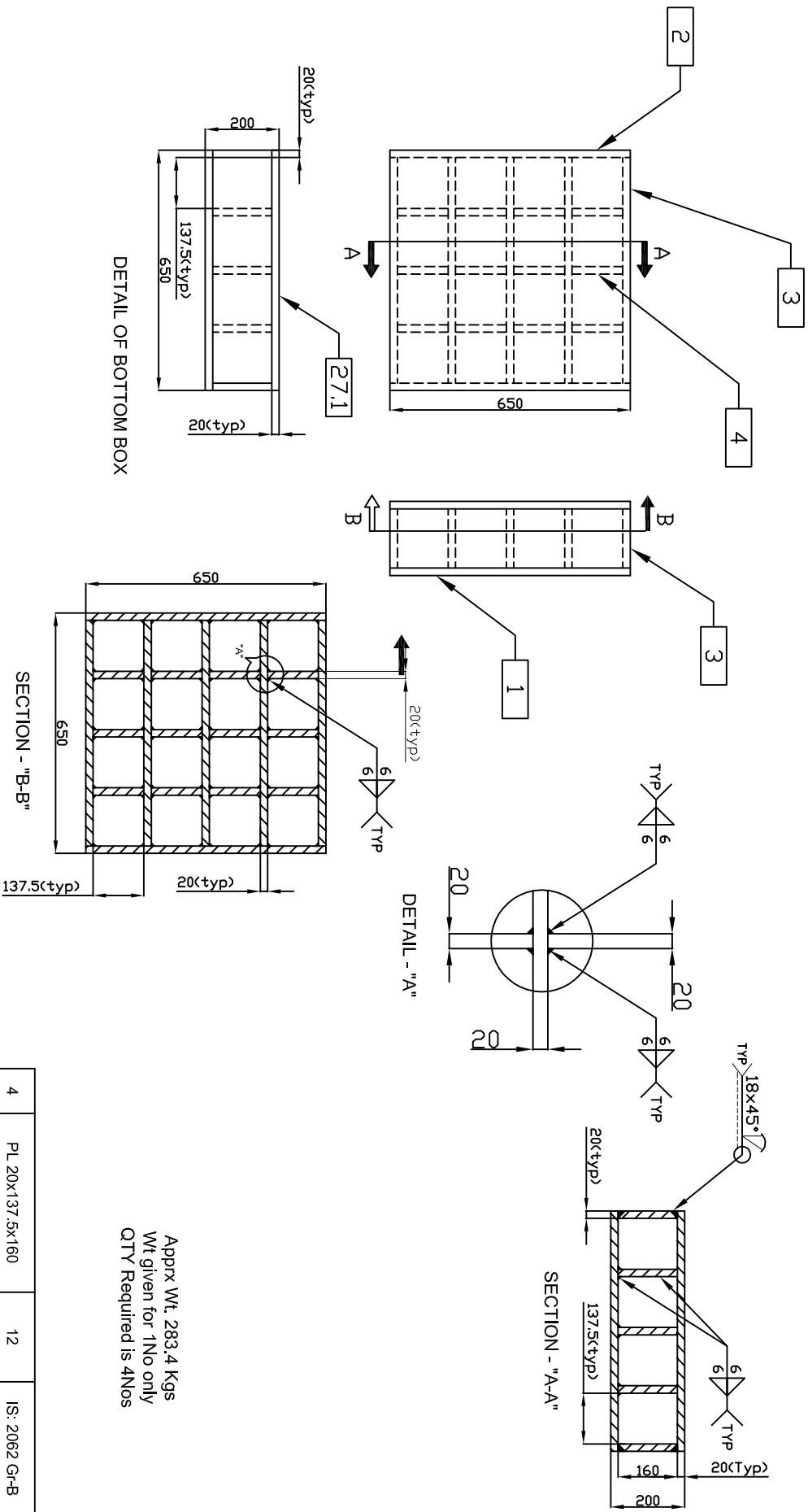


Fig 4. Side view of HSS + Rollerstands + segment



Apprx Wt. 283.4 Kgs
 Wt given for 1No only
 QTY Required is 4Nos

Fig 5. BOTTOM BOX DETAILS

S.No	DESCRIPTION	QTY	Matl/Specf	Wt.in.Kgs
4	PL 20x137.5x160	12	IS: 2062 G-B	41.5
3	PL 20x160x610	5	IS: 2062 G-B	76.6
2	PL 20x160x650	2	IS: 2062 G-B	32.6
1	PL 20x650x650	2	IS: 2062 G-B	132.7

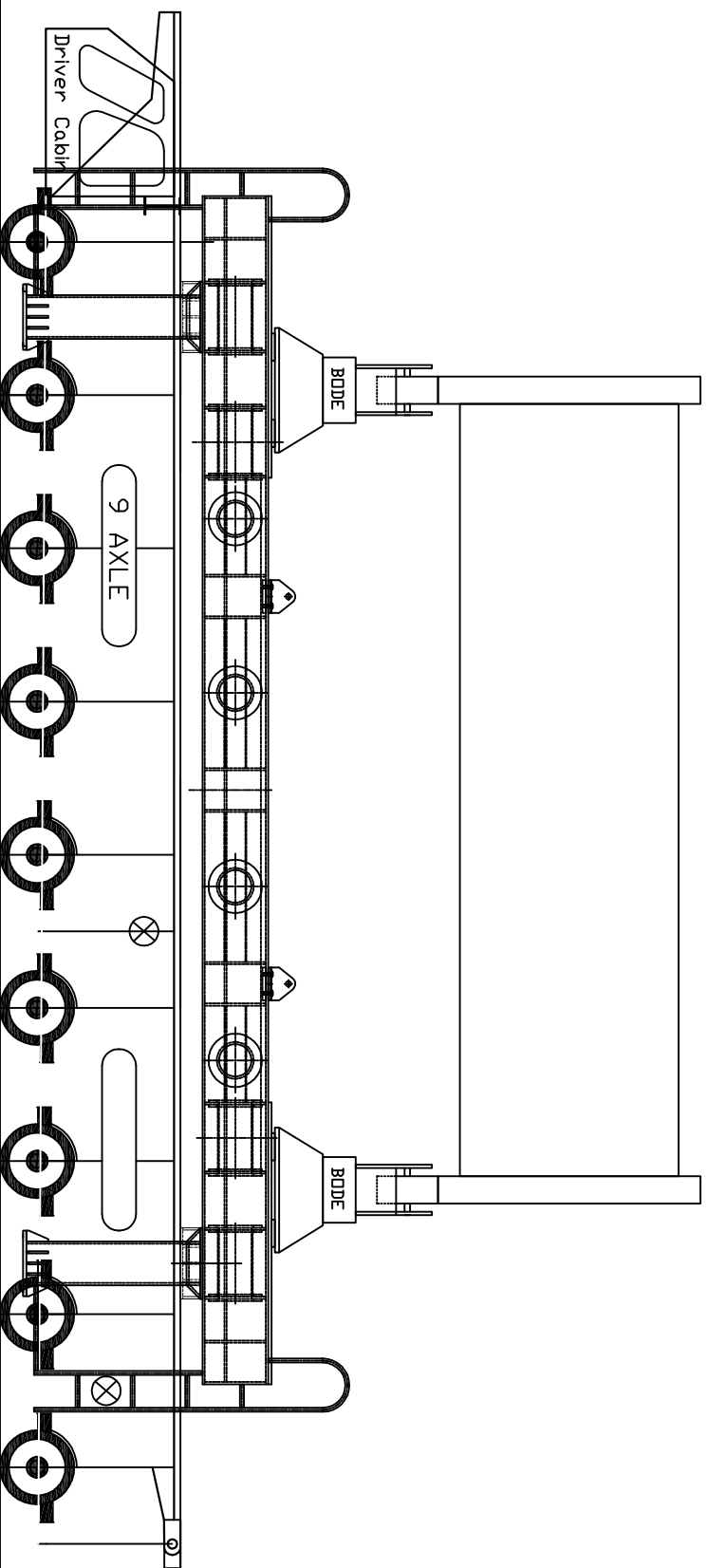


Fig 6. Transport arrangement of structure + Rollerstands + segment on KAMAG



Satish Dhawan Space Center SHAR

Welcome, Materials Master (isro)

31 August 2017,
17:16:08 IST

[MAIN VIEW](#)

[HELP](#)

Preview For STANDARD TERMS AND CONDITIONS

Page Destination: Tender Header **Format Type :** Normal

. :

GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

SATISH DHAWAN SPACE CENTRE

PURCHASE DIVISION

Tele No.08623-225023/225174/225127

Fax No.08623-225170/22-5028

e-Mail ID : hps@shar.gov.in, hasan@shar.gov.in, sselvan@shar.gov.in

STANDARD TERMS & CONDITIONS

1.OFFERS SHALL BE SENT ONLINE ONLY USING STANDARD DIGITAL SIGNATURE CERTIFICATE OF CLASS III WITH ENCRYPTION / DECRYPTION. THE TENDERS AUTHORISED ONLINE ON OR BEFORE THE OPEN AUTHORISATION DATE AND TIME ONLY WILL BE CONSIDERED AS VALID TENDERS EVEN THOUGH THE BIDS ARE SUBMITTED ONLINE.

2.THE TENDERER MUST AUTHORISE BID OPENING WITHIN THE TIME STIPULATED IN THE SCHEDULE BY SDSC SHAR. OTHERWISE THE ONLINE BID SUBMITTED WILL NOT BE CONSIDERED FOR EVALUATION. PHYSICAL COPY WILL NOT BE CONSIDERED EVEN THOUGH IT IS RECEIVED BEFORE THE BID SUBMISSION DATE.

In case of two-part tenders, parties shall submit their offers as follows:-

1) Part-I – Techno-commercial Bid

(No price details shall be mentioned in this bid and shall not upload the details of price along with the techno-commercial bid)

2) Part-II – Price Bid

In view of Two Part Tender, the Offers submitted contrary to above instructions will be summarily rejected.

3.In case, the tenderer is not interested to participate in the tender, the tenderer shall submit regret letter giving reasons, failing which future enquiries will not be sent.

4.**Offer Validity:** The validity of the offers / tenders should be 90 days (in case of single part tender) and 120 days (in case two part tender) from the date of opening of the tenders. Tenders with offer validity less than the period mentioned above, will not be considered for evaluation.

5.**GST** - GST and/or other duties/levies legally leviable and intended to be claimed should be distinctly shown separately in the tender. GST details are given below

GSTIN: 37AAAGS1366J1Z1

LEGAL NAME : SATISH DHAWAN SPACE CENTRE SHAR

VALIDITY FROM:29/08/2017

TYPE OF REGISTRATION:REGULAR

6.**Customs Duty** - SDSC-SHAR is eligible for 100% Customs Duty exemption as per Notification No. 050/2017 539 (b) Dt: 30.06.2017. This may be taken into account while quoting for import items, if any.

In case tenderers offering items considering customs duty exemption, they should also indicate the bill of materials and price, separately, with Customs Duty component and terms and conditions thereto.

8.**Advance Payment** - Wherever advance payment is requested, Bank Guarantee from any Nationalized Bank/Scheduled Bank should be furnished. In case of advance payments, if the party is not supplying the material within the delivery schedule, interest will be levied as per the Prime Lending Rate of RBI plus 2% penal interest.

Interest will be loaded for advance payments/stage payments as per the prime lending rate of RBI and will be added to the landed cost for comparison purpose. In case of different milestone payments submitted by the parties, a standard and transparent methodology like NPV will be adopted for evaluating the offers.

9.**Liquidated Damages** - In all cases, delivery schedule indicated in the Purchase Order/Contract is the essence of the contract and if the party fails to deliver the material within the delivery schedule, Liquidated Damages will be levied @ 0.5% per week or part thereof subject to a maximum of 10% of total order value.

10.**Performance Bank Guarantee** - Performance Bank Guarantee for 10% of the order value should be furnished in the form of Bank Guarantee from nationalized/scheduled bank or by Demand Draft valid till warranty period plus sixty days as claim period.

11. **Security Deposit** – Security Deposit for 10% of the order value is mandatory, if the ordered value is Rs.5.00 lakhs and above. Party shall furnish the Security Deposit in the form of Bank Guarantee from nationalized/scheduled bank or by Demand Draft valid till completion of the contract period plus sixty days towards claim period for faithful execution of the contract.

12. **BANK GUARANTEE FOR FIM:** Supplier has to submit Bank guarantee for equal value of Free Issue of Materials (FIM) issued by the Department from Nationalised / Scheduled Bank valid till receipt and acceptance of supply and satisfactory accounting of FIM plus sixty days as claim period.

13. The delivery period mentioned in the tender enquiry, IF ANY, is with the stipulation that no credit will be given for earlier deliveries and offers with delivery beyond the period will be treated as unresponsive.

14. The Department will have the option to consider more than one source of supply and final orders will be given accordingly.

15. The bidders should note that conditional discounts would not have edge in the evaluation process of tenders.

16. Non-acceptance of any conditions wherever called for related to Guarantee/ Warranty, Performance Bank Guarantee, Security Deposit, Liquidated damages are liable for disqualification.

17. Wherever installation/ commissioning involved, the guarantee/warranty period shall reckon only from the date of installation and commissioning.

18. Purchase/Price Preference will be extended to the MSMEs under the Public Procurement Policy for MSMEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006 and instructions issued by Government of India from time to time. Vendors who would like to avail the benefit of MSME should clearly mention the same and submit all the documentary evidences to substantiate their claim along with tender itself.

19. The drawings, specifications, end use etc., given by the Centre/Unit along with the tender enquiry are confidential and shall not be disclosed to any third party.

20. **SPECIAL CONDITIONS FOR SUBMITTING QUOTATIONS IN FOREIGN CURRENCY BY THE INDIAN AGENTS**

The Tenderer should submit the following documents/information while quoting:-

a) Foreign Principal's proforma invoice/quote indicating the commission payable to the Indian Agent and nature of after sales service to be rendered by the Indian Agent.

b) Copy of Agency agreement with the Foreign Principal and the Indian Agent, precise relationship between them and their mutual interest in the business.

c) Registration and item empanelment of the Indian Agent.

d) Agency Commission will be paid only Indian Currency.

e) Compliance of the tax laws by the Indian Agent.

21. **High Sea Sales**- Against High Sea Sale transactions:

a. Offers shall be on all inclusive basis including delivery upto Sriharikota at the risk and cost of the supplier. Customs Clearance is the responsibility of the supplier and at his cost and risk.

b. 100% payment will be made within 30 days after receipt and acceptance of the items at our site.

c. GST as applicable

d. Customs Duty Exemption Certificate and other relevant documents required for Customs clearance will be provided.

e. High Sea Sales Agreement furnished by the supplier in accordance with the terms and conditions of our purchase order will be signed and issued by SDSC-SHAR.

22. The following information/ documents are to be submitted wherever applicable.

1. Product Literature

2. Core banking account number of SBI, RTGS Details

3. PAN No. in quotation and invoices

4. GST Registration details.

5. In case of MSME, registration details / documents from Competent Authority.

23. **EXCLUSION OF TENDERS**

The following tenders shall be summarily rejected from the procurement process

a. Tenders received from vendors who have not qualified in terms of their registration.

b. Tenders received against publishing of a limited tender in the CPP portal.

c. Tenders of vendors who have been removed from the vendor list or banned/debarred from having business dealings.

d. Unsolicited tenders from vendors.

e. The tenders which materially depart from the requirements specified in the tender document or which contain false information.

f. The tenders which are not accompanied by the prescribed Earnest Money Deposit.

g. The tenders of vendors who have not agreed to furnish Security Deposit, Performance Bank Guarantee and Liquidated Damages.

h. The validity of the tenders is shorter than the period specified in the tender enquiry.

i. The tenders received from vendors or their agents or anyone acting on their behalf, who have promised or given to any official of the Centre/Unit/Department, a gratification in any form, or anything of value, so as to unduly influence the procurement process.

j. The tenders received from vendors, who, in the opinion of the Centre/Unit, have a conflict of interest materially affecting fair competition.

k.The tenders received from Indian agents on behalf of their foreign Principals/OEMs (in cases where the Principals/OEMs also submit their tenders simultaneously for the same item/product in the same tender).

l.In case two or more tenders are received from an Indian agent on behalf of more than one foreign Principal/OEM, in the same tender for the same item/product.

m.If a firm quotes 'NIL' charges / consideration, the bid shall be treated as un-responsive and will not be considered.