

भारत सरकार
अंतरिक्ष विभाग
सतीश धवन अंतरिक्ष केंद्र शार
श्रीहरिकोटा रेंज डा.घ. 524 124
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निविदा सूचना सं. **TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/RO-LSSF/37/2025-2026**

भारत के राष्ट्रपति की ओर से वरि. प्रधान क्रय एवं भंडार, सतीश धवन अंतरिक्ष केंद्र श्रीहरिकोटा निम्नलिखित वस्तुओं के लिए ऑनलाइन निविदाएं आमंत्रित करते हैं:- On behalf of President of India, Sr. Head, Purchase and Stores, SDSC SHAR, SRIHARIKOTA invites on line quotations for the following.

क्र.सं. SI No	संदर्भ सं. Ref. No.	विवरण Description	मात्रा Qty.
01.	SDSC SHAR /LSSF PURCHASE /LSSF/2025001118 [Public Tender – Two Part]	Fabrication Works at ISROsene Facility	31 Line items

निविदा दस्तावेजों को डाउनलोड करने की अंतिम तिथि Last Date for downloading of tender documents : 07.11.2025 at 14:00 hrs.
ऑनलाइन निविदा जमा करने की अंतिम तिथि Due Date for submission of bids online : 07.11.2025 at 14:00 hrs.
निविदाएं खोलने की नियत तिथि Due Date for opening of tenders : 07.11.2025 at 14:05 hrs.

निविदाकार के लिए निर्देश Instructions to Tenderers:

निविदाएं ईजीपीएस के माध्यम से ही भेजी जाएं तथा कोई निविदा शुल्क लागू नहीं होगा।
Bids shall be submitted on line through EGPS only and No tender fee shall be applicable.

- कार्य के सम्पूर्ण विवरण/जानकारी तथा नियम व शर्तों इत्यादि के लिए संलग्न अनुलग्नक को देखें। / For full details/scope of work and terms and conditions etc., please see the enclosed annexures.
- इच्छुक निविदाकार इसरो की ई-खरीद वेबसाइट इसरो न्यू ई-प्रोक्युरमेंट www.eproc.isro.gov.in से ई-निविदा डाउनलोड और अपनी निविदा ई-खरीद पोर्टल पर ऑनलाइन जमा कर सकते हैं। डाक / वाहक / स्वयं द्वारा प्राप्त निविदाओं पर विचार नहीं किया जाएगा। / Interested tenderers can download the e-tender from ISRO e-procurement website www.eproc.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.
- निविदा दस्तावेज इसरो की वेबसाइट www.isro.gov.in इसरो न्यू ई-प्रोक्युरमेंट वेबसाइट www.eproc.isro.gov.in तथा सतीश धवन अंतरिक्ष केंद्र शार की वेबसाइट www.shar.gov.in पर भी उपलब्ध हैं। इन्हें केवल ई-खरीद पोर्टल से डाउनलोड और निविदा ऑनलाइन जमा कर सकते हैं। / Tender documents are also available on ISRO website www.isro.gov.in, ISRO New e-procurement website www.eproc.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 new e-procurement portal only.
- निर्धारित तिथि/समय के पश्चात प्राप्त बोलियों पर विचार नहीं किया जाएगा। / Quotations received after the due date/time will not be considered.
- वरि. प्रधान क्रय एवं भंडार, सतीश धवन अंतरिक्ष केंद्र श्रीहरिकोटा के पास किसी भी या सभी निविदाओं को स्वीकार / अस्वीकार करने का अधिकार है। / Sr. Head, Purchase and Stores, SDSC-SHAR, Sriharikota reserves the right to accept or reject any/or all the quotations.
- GeM GARPTS Report ID: GEM/GARPTS /12082025/2ZB73L3FZOV5

दिनांक DT: 16.10.2025

वरि. प्रधान क्रय एवं भंडार
Sr. HEAD PURCHASE AND STORES

भारतीय अंतरिक्ष अनुसंधान संगठन



Indian Space Research Organisation

**Tender document for
Fabrication works at ISROSENE Facility**



**SATISH DHAWAN SPACE CENTRE- SHAR
SRIHARIKOTA -524124**

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Fabrication, erection & testing of SS Pipelines

1.0 Introduction:

- 1.1 Work contract is meant for fabrication of Stainless-Steel piping circuits & associated structural works, which is to be carried out in new ISROSENE facilities i.e. Isrosene storage area, Stage pressurization room (SPR) area, yard pipe line circuits, UT & Mobile launch pedestal (MLP) fluid circuits.
- 1.2 These works are required to be carried out at SDSC SHAR Sriharikota which is about 100 Km from Chennai and 20 km from Sullurupeta.
- 1.3 **Contract period:** The validity of the contract shall be for a period of 24 months from the date of release of Purchase Order.

2.0 Scope & work of bidder: Fabrication works at isrosene facility at SDSC SHAR

- 2.1 Fabrication of SS pipe lines sizes varying and different schedule and MS structural material supply and fabrication of pipe lines supports, platforms and hand rails details given in Section-1
- 2.2 Radiography, hydro test, pickling & passivation and painting works details in section-2
- 2.3 Erection of tanks, pumps, heat exchangers, pipe spools with flow components, testing & commissioning details in section-3
- 2.4 Tubing works for EP valves, solenoids and cubicles details given in Section-4
- 2.5 Minor civil works like grouting / cementing details given in Section-5
- 2.6 General terms and condition of the contract details given in Section-6

3.0 Department Scope: *The following items will be supplied by Department at free of cost:*

- 3.1 All materials required for execution of work such as pipes, pipe fittings like tees, elbows, flanges, paints, thinner, machined fittings like Nipples, Unions and flow components, Clamps & shim plates for erection of pipes/tubes.
- 3.2 Radiography source pit and dark room for development of films.
- 3.3 Pneumatic supply for purging and testing activities.
- 3.4 Test gaskets and test gauges for equipment/piping.
- 3.5 Electricity, DM water & Compressed Air / Nitrogen gas will be supplied free of charge by Department at specified tapping points from where the fabricator has to extend to his machines, tools etc.

SS & MS fabrication works details: Section-1

1.1 Fabrication & Erection of SS pipe lines:

Sequence of fabrication works execution:

- 1.1.1 Mobilization of manpower, machinery and materials
- 1.1.2 Submission of all welding consumables MTC's
- 1.1.3 Qualification of TIG (6G) welders at SDSC SHAR
- 1.1.4 Mobilization of required materials from the stores (Max: 2 to 4km)
- 1.1.5 TIG welding and Laying of pipe lines as per the approved P&ID.
- 1.1.6 Trial suit check shall be carried out at site before final weld, if required.
- 1.1.7 All weld joints shall be under DP test (root & final), all butt joints shall be 100% radiography.
- 1.1.8 Erection of pipe supports and fixing of pipe clamps for all the pipe lines.
- 1.1.9 Hydro test, pickling & passivation, painting, alignment, assembly of flow components, pneumatic leak checks, final inspection and tag numbering.
- 1.1.10 **TIG Welding:** Stainless Steel pipe (SS 304/304L/316/316L) of schedule (from 10S to XXL) and Size varying from 15NB to 100NB are planned to be welded. Piping work includes marking, cutting, profiling, aligning, fit up, Tack welding, cleaning, chipping etc. Root and final TIG welding by GTAW process shall be completed. *(GTAW welding shall be with 99.99% purity argon gas shielding & purging)*. Filler wire to be used for GTAW welding shall be ER 308L & ER 316L.
- 1.1.11 Only 6G qualified welders as per ASME Sec. IX with proven track record shall be employed to carryout welding. Qualification of welder need to be carried out in the presence of Department QC engineer suiting to the pipe size/ schedule requirements. *Fabrication Supervisors, Fitters, Fabricators & Grinders should be well experienced.*
- 1.1.12 All pipe welding joints shall be tested with Dye-penetrant test after root and final pass for butt welding and for final pass after fillet/socket welding as per ASME Sec.V, and **100% butt weld joint to be radiographed.**
- 1.1.13 **Pipe Bending:** Cold bending of pipes shall be made to a requisite angle by using heavy-duty bending equipment meant specifically for Stainless Steel pipes of ½" to 1" pipe

lines for gas service. Bend radius of minimum 3D-4D shall be maintained to avoid unwanted thinning. Wrinkles and scratches are not permitted on the bends

1.2 Supply & Fabrication of MS Structural (SMAW):

- 1.2.1 Supply of MS structural material (table-1) & fabrication of pipe lines supports, equipment support, platforms, stair cases and hand rails, cable trays, preparation & submission of structural drawing before fabrication work.
- 1.2.2 Contractor has to prepare & submit the structural drawings (stair case, platforms & hand trails)
- 1.2.3 Contractor has to supply the structural material latest lot/stock or not more than three months.
- 1.2.4 The structural material payment will be made at actuals after fabrication, erection and painting works at site.
- 1.2.5 The items to be supplied shall confirm to IS 2062 and IS 1852.
- 1.2.6 The materials shall be free from scratches, re-rolled/processed items, pin holes, corrosive layer, material defects, etc. The latest stock items shall be supplied, the commercial leading brands like tata/tisco/sail/jindal/vizag steel only to be supplied.
- 1.2.7 The items shall be inspected at supplier's premises before dispatch to SDSC. Hence supplier has to inform us for pre-delivery inspection.
- 1.2.8 The confirmatory material test certificates shall be provided along with the materials/at the time of inspection.
- 1.2.9 Fabrication of MS structural works shall be carried out by means of SMAW welding with arc electrodes of AWS E 7018. Anchoring of pipe supports works are to be carried out wherever required, anchoring fasteners are in the scope of contractor.
- 1.2.10 Holes should be drilled, making the holes with gas cutter not permit.
- 1.2.11 Exclusive ARC welding teams should be available for carrying out the structural fabrication works. **Minimum two batches and maximum of three batches are required.**
- 1.2.12 Experienced welder, fitter and helpers should be available in each team.
- 1.2.13 The machineries, grinding wheel/ cutting wheel, drilling machines are in the scope of the supplier and they should be in good conditions. The machineries and consumable will be

evaluated by the purchaser before actual use for fabrication works. Gas cutting set & arc welding machine with accessories and consumables are in the scope of supplier.

Table-1						
Tender Sl. No	Work description			UOM	Qty	
12	Supply of MS structural materials, fabrication of structural works (Arc welding/gas cutting/drilling) platforms, pipe supports, hand rails, anchoring and two coats of painting work.			Kg	140000	
	MS structural material details (Indicative only)		UOM			Qty
	ISMC: 50X50X4.7		m			800
	ISMC: 75 X 75 X 4.7		m			750
	ISMC:100X100X4.7		m			1500
	ISMC:150X150X5.4		m			800
	Handrail (MS/ GI pipe 32mm dia)		m			3500
	Chequered plate Thick 3mm (in Sq.M)		Sq.m			300
	Chequered plate Thick 5mm (in Sq.M)		Sq.m			750
	ISA: 50X50X4		m			600
	ISA: 75X75X6		m			850
	ISA:100X100X8		m			350
	ISA:150 X 150 X10		m			350
	Note: the above material description, size & quantity is indicative only and department will provide the paints & thinner with free of cost.					

1.2.14 The following Manpower to be engaged for the fabrication work:

1.2.15 Experienced two supervisors with 5 to 10 years of experience in the piping fabrication field with AutoCAD.

1.2.16 6G qualified TIG welders for SS pipe welding and Structural welder for MS fabrication, qualified skilled fitters and grinders.

1.2.17 Each SS TIG Welding fabrication batch consist of minimum of one welder, one fitter, one grinder and two helpers. **Minimum five and maximum seven fabrication batches shall be deployed at a time** in different locations with required equipment, material and also additional team to be deployed when demanded.

- 1.2.18 The bidder shall be capable of simultaneously deploying seven welding teams with supervisors. However, the bidder should be in a position to mobilize two additional welding teams to cover up the delays, if any, to meet the schedule on advance intimation of one week, if need arises.
- 1.2.19 Site engineer / supervisor shall be deployed to site and the shall be responsible for:
- 1.2.20 Supervision of fabrication activities and Safety of contractor's personnel
- 1.2.21 Preparing weld joints history, plan of activity, bill of material, fabrication drawings, drawing of material from department stores/facility, records of flow components, quality related documentation and fabrication history sheets
- 1.2.22 Taking clearances for welding works from Department representative
- 1.2.23 Co-ordination with radiography team & Department representative
- 1.2.24 Keeping custody of all Dept free issue material, radiography films, etc.
- 1.2.25 **Machinery:** Required machinery like TIG welding machine, arc welding machine, portable auto TIG machine, grinding machine, gas cutting sets and bench / hand drilling machines and concrete drillers, bending machine, pipe cutting machine, hydro test pumps etc. shall be mobilized by the bidder.
- 1.2.26 All erection tools like Chain Pulley blocks, D-sackles, slings, belts, necessary wooden logs, Fixtures or special tools etc. for erection/ lifting of equipment's shall also be mobilized to the site by the bidder.
- 1.2.27 **Transportation of men & Material:** Transport vehicles required for movement of contract personnel from /to work site and Gate I / Sullurupeta, including internal movement within site are in the scope of bidder.
- 1.2.28 **Weld Consumables:** The consumables such as SS Filler wires (ER SS 308 L / 316 L), CS filler material(F-6), electrodes (E 7018 / E 6013), Grinding Wheels, Industrial Gases (Oxygen / Acetylene), Gas cutting set, Argon gas, Dye-Penetrant Test Kit, Argon regulator, Flow Meters, Face shields, Gloves, SS Wire Brush, SS alignment shim plates of various sizes, Emery cloth, etc. shall be mobilized to the site by the bidder.
- 1.2.29 **SS Wires:** Size 1.6 mm / 2.0 mm / 2.5 mm, Make (Philips / ESAB / Advani). Manufacturers material test certificates shall be submitted for review & records.
- 1.2.30 **Electrodes for MS Structural:** Size 2.5 mm / 3.15 mm, Make (Philips / ESAB / Advani). Manufacturers material test certificates shall be submitted for review and record.

- 1.2.31 **Argon Gas cylinder & Oxygen / Acetylene cylinders:** Grade Commercial, Purity 99.99%, Cylinder Capacity 50 Ltrs, Make (Praxair / Bhoruka / Inox / BOC). Purity certificate to be provided prior to usage.
- 1.2.32 **Dye-Penetrant Test Kit** Containing cleaner / Penetrant / Developer, Make (Magnaflux / Check Mate)
- 1.2.33 **Note:** Bidder has to provide all the welding consumables materials TC's for department engineer review and the material shall be used after getting the clearance only.
- 1.2.34 **Electrical:** Safe distribution of electrical power from single point source identified by Department to various bidders' utility points / equipment.
- 1.2.35 **Evaluation of Machinery, Manpower and Consumables:**
- 1.2.36 Machinery and manpower shall be subjected to technical evaluation by the Department Engineer to ascertain their complete suitability / performance for the jobs described above before commencement of the work at site.
- 1.2.37 Only qualified welders to a level of 6G as per ASME Sec. IX with proven track record will be permitted to carry out the welding works. However, qualification of welder needs to be carried out at site in the presence of Department engineer suiting to the pipe size / schedule requirements. Based on this, evaluation clearance shall be given for taking up the actual job. *Fitters / Fabricators / Grinders should be well experienced.*
- 1.2.38 **Any welder producing beyond the acceptable no. of repair joints, shall be replaced with another welder after due qualification.**

**Radiography, hydro test, pickling & passivation and painting works details:
section-2**

- 2.1 Radiography:** All butt-welds shall be subjected to **100% Radiographic Examinations by X-ray /Gamma-Ray for SS piping** as per ASME sec. V for a sensitivity of 2-2T.
- 2.1.1 The penetrometer used shall confirm to ASTM E 1025/ASTM E747 (or) relevant DIN standards.
- 2.1.2 Radiography shall be carried out by qualified technicians (i.e.) minimum Level-I of ISNT/ASNT and *qualification certificates shall be produced with latest renewal to the Department before proceeding with the work.*
- 2.1.3 Exclusive radiography machine / gamma ray source has to be arranged by the bidder when sufficient numbers of joints are available for examination. Accumulation of weld joints should be minimum 30 Nos.
- 2.1.4 Radiography film shall be evaluated and report shall be submitted by Level II ISNT/ASNT (or) equivalent qualified person. However, department inspector will carry out the final evaluation. Department QC/Department NDT Level-II trained inspector decision is final for retake due to rejection (or) radiography owing to bad image quality (or) repair joints. No extra cost will be paid for re-take due to rejection of radiograph owing to bad image quality or repair joints.
- 2.1.5 Radiography shall be carried out during night time only.
- 2.1.6 Radiography sizes & quantity as per tender
- 2.2 Hydro test of fabricated pipe spools/loops & erection**
- 2.2.1 **Hydro testing:** Hydro testing of welded pipe lengths / spool pieces with pipe fittings and flanges.
- 2.2.2 Assembly flow components/ pipe spools with gaskets
- 2.2.3 Hydrostatic / Pneumatic leak checks on completed piping segments shall be carried out at defined pressure rating as informed by the department personnel. Hydrostatic test shall be carried out with DM water (water will be free issue by Department).
- 2.2.4 The items required for hydro test like hydro test pump, calibrated pressure gauges, blinds etc are in the scope of supplier.
- 2.2.5 **Sequence of Testing for SS Pipelines:**

- Flushing of piping segments with DM water.
- Hydro test as per department specified pressures.
- Flushing of all circuits with DM water.
- Replacement of test gaskets with actual gaskets (free issue by dept).
- Purging of all circuits with dry / N₂/ gas with requisite dew point.
- Cleanliness check of fluid circuits.
- Pneumatic leak test of the total system as an integrated system ready for process functional checks at operating conditions.

2.2.6 **Piping Erection:** Laying of fabricated pipe lines over structural supports and clamping.

2.2.7 This work includes alignment of pipes, maintenance of required slopes, proper fixing of flow components, instruments and fixing of SS shim plates & U clamps.

2.2.8 Erection of piping includes doubling of pipes, positioning of completed pipeline segments at required locations as per the piping layouts.

2.2.9 MS supports fixing and drilling of holes in MS supports, fixing of clamps shall be carried out for every 2.5 to 3.0 Meters of pipe length where ever pipe line routing is carried out.

2.2.10 Painting & tag numbering as per P&ID

2.2.11 **Erection requirements:** Erection includes assembly of flow components & measuring instruments with pipe spools with gaskets and clamping. The joints shall be tightened by SS studs with required torque. Gaskets, studs will be free issue materials.

2.3 **Specification for Pickling & passivation**

2.3.1 **Pickling:** This is carried out after mechanical cleaning and degreasing operations to remove all the rusts and scales.

2.3.2 **Methods of Application:**

2.3.3 **Swabbing method:** In swabbing method the above chemical composition (pickling & passivation) will be mixed with Barium Sulphate Powder (LR Grade), as paste it will be applied on the inside surface of the vessel (For every 30 minutes one time)

2.3.4 **Filling method:** In filling method pickling or Passivation solution will be filled in the pipeline or vessel and soaked for required duration as per the sample testing. In case of pipeline exceeding 50 M or pipelines with varying elevation circulation of the chemical inside the pipeline using pump is necessary for a duration obtained by trials.

- 2.3.5 Pickling is carried out with a solution containing Hydrofluoric acid and Nitric acid. The composition of the pickling solution and duration of pickling are adjusted after trial test on a sample piece to remove uniformly less than 25 microns thick material. The composition is as follows:

HNO₃ - 15 to 20% by volume
 HF - 2 to 5% by volume
 DM Water - Balance
 Temperature - Ambient
 Duration - 2 hours

After pickling, rinsing with ordinary potable water until all the acid traces are removed. The bath solution has to be changed if the level of Iron in the bath reaches 8 grams/liter.

- 2.3.6 **Passivation:** This is done after the pickling operation, a solution having the following specifications shall be used.

HNO₃ - 25% by volume
 DM Water - 75% by volume
 Temperature - Ambient

Duration of the passivation should be minimum 2 hours. The bath solution has to be analyzed frequently and the bath replenished if the level of iron exceeds 5 g/liter. Finally rinsing with demineralized water (conductivity less than 10 micro siemens/cm) is carried out till final rinse water PH is between 6.5 to 7.5 to minimize staining.

- 2.3.7 **Checking of chemicals used for pickling & Passivation**

- 2.3.8 **Test for acid after pickling and passivation:** After rinsing with water/DM water, the washings shall be checked with methyl orange indicator until the color becomes golden yellow. A red color shows the presence of acid and rinsing shall be continued.

- 2.3.9 **Test for fluoride:** This shall be done using Zirconium Oxy Chloride solution using Xylenol Orange as indicator. The bleaching of Zirconium Xylenol orange complex will indicates the presence of fluoride.

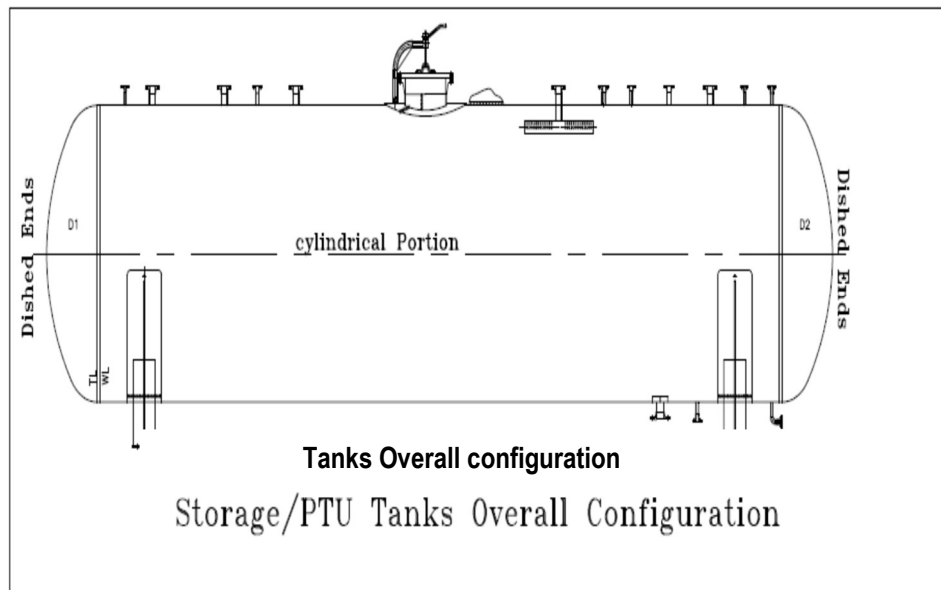
- 2.3.10 **Determination of acid concentration:** Pipette out 25 ml of pickling or passivation bath solution into 100 ml flask. Dilute to 100 ml with distilled water, pipette 20 ml of this solution into 250 ml flask and dilute to 100 ml with distilled water. Add 2/3 drops of methyl orange indicator and Titrate against N/2 NaOH contained in a burette. Take reading when color change from (red to yellow) (pink to yellow). Percentage of acid =

$$\text{No. of ml} \times 0.67$$

- 2.3.11 **Estimation of iron:** Pipette out 10 ml of solution into a flask and dilute it to 100 ml with distilled water. Pipette 10 ml of dilute solution into flask and add 10 ml of 50% Sulphuric acid.
- 2.3.12 Titrate against N/10 KMNO_4 solution till the pink color persists for about 15 seconds.
Percentage of iron = No. of ml of N/10 KMNO_4 X 0.56
- 2.3.13 Inspection after cleaning for the presence of free iron:
- Copper Sulphate Test
 - Ferroxyl test
- For all testing, the contractor shall establish a small laboratory facility on his own and all chemicals purchased by the contractor will be subjected to the approval of inspection agency.
- 2.3.14 **Drying & purging:** The drying is done on pipe spools to remove water and this is done as given below: Oil free compressed air dew point less than -40 Deg. C is used to purge initially. Purging with dry Nitrogen having Dew point less than -40 Deg. C and free from oil and greases (less than 10 PPM at 60 Deg. C till the moisture level at the exit comes to the inlet concentration value.
- 2.3.15 **Sealing:** After drying, the pipes/equipments/tanks/pumps should be sealed so that ambient moisture never enters inside. The pipes/equipments/tanks/pumps tanks are to be pressurized to 0.5 bar with dry N_2 gas at -40^o C dew point Temperature.
- 2.3.16 **General conditions:** The pipelines after welding & radiography/hydro test will be subjected to pickling & passivation.
- 2.3.17 The spool pieces / yard length pipe lines will be subjected to pickling & passivation. The spool pieces shall be pickled & passivated by holding method whereas the yard length line shall be pickled & passivated by holding & circulation method.
- 2.3.18 The external & internal surface of the weld joints of the pipe lines are to be pickled & passivated.
- 2.3.19 The chemicals, pump, PVC hoses, testing equipments, plastic drums are in the scope of supplier

Erection of Equipments, flow components & Pipe lines: section-3

- 3.1. Scope of work:** Erection of equipments viz storage tanks, drain tank, drain cum pressurization tank, pumps and heat exchangers.
- 3.1.2** Erection of flow components like manual valves, Electro pneumatic valves, control valves as per P & ID with the pipe lines.
- 3.1.3 Erection of tanks / Pressure vessels:** The number of tanks to be erected are Storage Tanks (STs), 60 cu.m capacity, three numbers & Drain Tank (DT), 10 cu.m capacity – one number & Drain cum Pressurization Tank (DPT), 10 cu.m capacity one number.
- 3.1.4** Dimensions of tanks: Storage tank: Dia: 2.8m, Length: 11m – 3Nos
DT & DPT: Dia: 1.5m, Length: 7m -- 2Nos



- 3.1.5** All tanks (5 Nos), heat exchangers (2Nos), pumps (2Nos) pipes and flow components, lifting, mobilization from stock yard (max. of 2.0 km) to storage area (facility) and erection at respective places, required material handling equipments are in the scope of contractor only.
- 3.1.6** The STs and DT are to be erected at Isrosene storage & DPT is to be erected at stage pressurization room,
- 3.1.7** The storage tanks are to be kept above the ground whereas the DT & DPT are to be kept below the ground level, inside the pit area identified in the storage & SPR area.
- 3.1.8** No hook provision is provided in the storage for handling of tank / MS structural steel members. Specific care shall be taken erecting tanks. Crane with boom arm, wooden

- blocks, belts, sliding mechanism with roller support are to be used for erection of storage tanks.
- 3.1.9 If any of the equipment gets damaged during erection, the cost of rectification / replacement shall be recovered from the contractor.
- 3.1.10 The alignments, slopes and elevations of tanks are as per purchaser's requirement.
- 3.1.11 For all tanks, foundations / pedestals are available. If concrete pedestals are damaged during handling of tank, the same shall be rectified / built before erection of tanks by the contractor.
- 3.1.12 **Erection of Heat exchangers:** Number of heat exchangers to be erected: 2 numbers. The heat exchangers are of spiral type.
- 3.1.13 The civil pedestals required for mounting the heat exchangers are available.
- 3.1.14 **Erection of pumps:** Two numbers of canned motor pumps are to be erected on civil pedestals. The orientation of pump installation will be informed while erection to meet the process piping requirement.
- 3.1.15 **Erection of pipe lines:** Erection of piping includes doubling of pipes, positioning of completed pipeline segments at required locations as per requirements of piping layouts and instructions of department focal points depending on the site conditions.
- 3.1.16 This work includes alignment of pipes maintenance of required slopes, proper fixing of flow components, pipe fittings & instruments and laying such pipelines over structural pipe supports. The work also includes integration of such pipelines with equipment including proper clamping of pipes on such supports.
- 3.1.17 After the pipe spool pieces fabrication & qualification, they are to be assembled with flow components & equipments as per the P & ID.
- 3.1.18 The yard pipe lines are to be made with proper support over the pipe pedestals.
- 3.1.19 **Erection of flow components:** The manual valves, EP valves, control valves will be provided by the purchaser as free issue materials. The quantity of valves to be erected is as per the P & ID.
- 3.1.20 Hence as per P & ID, end to end system is to be made with all the flow components & piping system. All the flow components will be supplied by the Purchaser for erection.
- 3.1.21 **General conditions:**
- 3.1.22 After erection/assembly the equipments, pipe lines & MS structures two coats of paint have to be carried out by the contractor
- 3.1.23 **Transportation & Material Handling:** The necessary items for erection of equipments like wood logs, temporary structures, riggers, tools and tackles, wire ropes, D-shackles, cranes, rollers are in the scope of contractor. However, department

may provide the material handling support on chargeable basis subject to availability.
The approximate rates at present are:

Material Handling systems	Approximate Rates per hour *
130 T Crane	18000 Rs/Hr
TL crane (10T)	2900 Rs/Hr
Hydra (10T)	1900 Rs/hr
Gold Hoffer Trailer	2700 Rs/hr
Volvo Hauler	2300 Rs/Hr
* Rate may change and it is under the discretion of the purchaser & requirement of support is subject to availability.	

- 3.1.24 The Transport vehicles required for movement of contract personnel from /to work site including internal movement within site is in the scope of contractor only.
- 3.1.25 All tanks and the pipelines shall be earthed through Aluminium conductors of size 25 X 3mm thick as required at site.
- 3.1.26 The tools & spanners of different sizes required for flow component assembly with pipe lines and equipments is in the scope of contractor.

Tubing works for solenoids, actuators, Pressure transmitters, control valves, solenoid cubicles, tube tray related works & Painting work: Section-4

- 4.1 Scope of work:** Command gas (N2) supply tubing for electro pneumatic (EP) valves between actuators and solenoids.
- 4.1.1 Command gas supply tubing between solenoids & N2 header
 - 4.1.2 Command gas supply tubing for control valves.
 - 4.1.3 Tubing for Pressure transmitter (process instrument) between process pipe & instrument.
 - 4.1.4 Tube tray fabrication, bunching of tubes with SS wire/clamps.
 - 4.1.5 **Works involved:**
 - 4.1.6 **For electro pneumatic valves:** The tubing works involves cutting, bending, edge preparation without burrs and with ferrule fittings, the tubes shall be interfaced.
 - 4.1.7 The tubing works shall be carried out between actuators, solenoids & command gas header pipe lines.
 - 4.1.8 The solenoid valves are kept in a separate enclosure called cubicles. From the command gas line header to solenoid valves and from solenoid outlet to actuators of EP valves, tubing works to be carried out. Inside the solenoid cubicles, solenoid valves (16 nos) will be fixed and tubing works shall be made for command gas supply with interface adopters.
 - 4.1.9 The actuators and solenoids are kept apart.
 - 4.1.10 The tubes shall be interfaced with actuators/ solenoids with suitable interface ferrule fitting adopters/ compression tube fittings.
 - 4.1.11 The tube & tube shall be interfaced using the union ferrule fittings.
 - 4.1.12 Wherever unions are used the union joint shall be projected above the tube tray for easy leak check & maintenance.
 - 4.1.13 For each solenoid cubicle entry one filter also is to be assembled.
 - 4.1.14 **For Pressure Transmitters:** For the pressure transmitter tubing, the tapping is taken from the process pipe. From the process pipe to PT instrument, tubing is to be carried out similar to EP valves.
 - 4.1.15 **For control valves:** For control valves, inlet to smart positioner via small pressure regulator is to be made with tubing between regulator and N2 header line.
 - 4.1.16 **Tray related works:** Tubes are to be laid neatly via the trays between actuators & solenoid cubicles.
 - 4.1.17 The trays are to be cut/ welded / fabricated for the same.

- 4.1.18 The tubes are to be bunched together by means of SS clamp / SS wire. (GI wires, MS clamps shall not be employed which lead to pitting corrosion of tubes)
- 4.1.19 **Solenoid cubicles inside tubing works:** each cubicle size: H: 2.0M X W: 1.2M X D: 0.4M housing with 12 to 16 solenoid valves which is to carry out the internal tubing work by the contractor.

Minor civil works like grouting / cementing and Painting work: Section-5

5.1 Minor civil related works: During execution of pipe welding works, minor civil related works with respect to pipe supports, equipments pedestals may be expected. Such RCC pipe supports for pipe lines, foundation / grouting works excavation and back filling is to be carried out as per the site conditions and the requirements.

5.2 Painting works

5.2.1 Scope of work: Painting of equipments & pipe lines, structural items & hand rails, tag numbering of flow components, pipe line numbers, equipments numbers / designation

5.2.2 Painting of all equipments/pipe lines: The paints to be applied are special type (epoxy paints) i.e. two component paints. Both the components (3:1 ratio) are to be mixed and applied immediately on mixing. All the surfaces shall be applied with one coat of primer & one coat of finish coat, paints will be provided by purchaser.

5.2.3 In order to protect the surface of the pipe lines and equipments from rust and dry coastal saline weather, application of primer and finish coat paint shall be carried out.

5.2.4 The metal surface shall be cleaned thoroughly for surface preparation with Stainless Steel brushes.

5.2.5 A high build epoxy primer suitable for Stainless Steel surface of 120 +/- 10 micron Dry Film Thickness (DFT) followed by a finish coat of aliphatic / acrylic, polyurethane finish paint of 40 microns DFT shall be applied so that the total DFT achieved will be 150 +/- 10 microns. The tag numbering of pipelines and flow components shall be written at appropriate places as per P & I diagram. All paints and necessary consumables fall under the scope of the contractor.

5.2.6 For tanks and equipments spray painting shall be employed. The spray gun is in the scope of supplier. The source of N2 gas will be provided by the department.

5.2.7 Painting of Structures/platforms/hand rails/cable trays: Painting of MS pipe Supports/Structures, platforms and cable tray work includes surface preparation, mixing and application of paints.

5.2.8 Primer & Final coat as per required thickness. All paints and necessary consumables fall under the scope of the contractor.

5.2.9 Painting Scheme shall be followed given below:

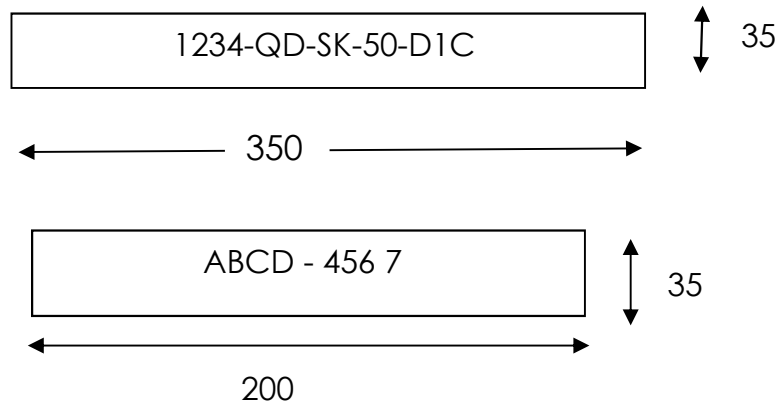
5.2.10 Epoxy mastic coating : 120 - 130 microns

5.2.11 Aliphatic Polyurethane : 30 - 40 microns

5.2.12 Total Dry film thickness : 150 +/- 10 microns

5.2.13 Colour scheme: The colour code scheme for pipe lines will be provided by purchaser at the time of painting works and in general as per relevant Indian standards and which will be applicable for final coat.

5.2.14 **Tag numbering / Pipe line numbering:** Numbers are to be painted on the pipelines using white synthetic enamel paint on a black back ground painted surface as follows:



5.2.15 Height, width & thickness of letters/numbers are 25, 50 & 5 mm respectively. One set consists of numbering with white enamel on a black background. Black background is to be painted prior to numbering with stencils.

5.2.16 **General conditions:** Experienced painters shall be employed.

5.2.17 Spray painting (tanks & platforms) / manual brush mode (pipe lines, hand rails, pipe supports, etc.) painting shall be employed.

5.2.18 Painting (two coats) shall be carried out for all the pipe lines, tubes, cable trays, tube trays, tanks, heat exchangers, pumps, equipments, structural members like a platform, hand rails & supports.

5.2.19 While painting uniform DFT shall be maintained.

5.2.20 The brushes, emery papers/blades/waste/ cotton cloths, spray gun are in the scope of contractor.

5.2.21 **Paint & thinner will be supplied by the purchaser**, paint / Thinner should not be wasted.

5.2.22 Tag numbering / pipe line numbers will be provided at the time of painting works.

Note: two coats of painting have to carried out, painting work requirement of structures, equipments, cable/tube trays, tubes and pipe lines

General Terms & conditions: Section-6

- 6.1.1 Manpower, & Schedules:** Tentative start of work will be intimated to Contractor **Three weeks** in-advance.
- 6.1.2** The contractor will be allowed to work beyond office hours and including holidays to meet the project schedule.
- 6.1.3 Transportation, accommodation, canteen of men & Material:** Transport vehicles required for movement of contract personnel from /to work site and Gate I / Sullurupeta, including internal movement within site, canteen & accommodation are in the scope of bidder.
- 6.1.4** Site will be kept open for round the clock basis (Contractor shall be allowed to work in three shifts for carrying out site works). Accordingly, welding teams shall be planned by the contractor. During launch/propellant activities in nearby storages/facilities, welding works will be stopped and it will be intimate in advance.
- 6.1.5** In order to complete the work in time, it is recommended to deploy adequate manpower and supervisors and the work shall be carried out in two or three shifts based on requirement.
- 6.1.6** Progress review meetings once in a week will be conducted for monitoring the status of works and the contractor's site representative need to attend with all relevant inputs.
- 6.1.7** The supplied materials shall be entered to the SDSC premises only through Security endorsements. M.S structural material will be weighed in department Weigh Bridge.
- 6.1.8** The contractor shall get approval from Department for the specifications of all items in his scope of supply, bought out items if any, before placing orders for the same.
- 6.1.9** The works as described above shall be treated as completed only after certification of the Department Engineers.
- 6.1.10** The purchaser reserves Right to cancel the contract at any time in case of failure of the contractor to fulfil the various requirements mentioned in the Purchase order (like number of welding batches etc.)
- 6.1.11** Conveyance for personnel from and to work spot has to be arranged by the contractor.
- 6.1.12** Material-handling support will be provided by Department on chargeable basis (subjected to availability) for shifting of equipment's/MS structural steel etc. Request for such material handling requirement shall be given at least one-week advance.

- 6.1.13** For handling of pipes from storage to work spot, yard, different elevations, between two work locations and placing pipes on pipe supports after fabrication is in the scope of bidder.
- 6.1.14** Bending of pipe line (up to 25NB pipe size based on department clearance) where ever required to be taken up.
- 6.1.15** Where ever painting works involved it should be two coats (primer & finish) done by the contractor
- 6.1.16** Housekeeping of fabrication area near to work spot will be identified by the purchaser for carrying out pre-fabrication works as well as storage of Dept. free issue material to maintain neatly
- 6.1.17** Bidder shall clearly indicate deviations if any from indent specifications in the offer.
- 6.1.18** The bidder has to ensure that minimum wages, EPF, ESI applicable as per labour act for his manpower during the execution of work.
- 6.1.19 Payment terms:** Payment shall be as per completed portion of the purchase order line items on PRO-RATA basis after duly certified by the Department Engineer. However, maximum number of bills shall be limited to 20 only.
- 6.1.20 Working Personnel terms & conditions: Security:** The contractor shall follow entry permit and gate pass system for his laborers and materials while entering gate. Contractor supervisor shall ensure that their personnel are strictly confined to the assigned job and place of work.
- 6.1.21 Safety:** Contractor has to give an undertaking that they will comply with prevailing safety norms at site put forth by department. Safety officer shall have full access to contractor's storage shed/office for inspection.
- 6.1.22 Group Insurance:** Group insurance for workmen shall be taken for this work.
- 6.1.23 Medical Assistance:** While executing this contract work, if any of the workers engaged by contract agency is injured, they will be provided with first-aid by department. However, contract agency has to take care of subsequent medical treatment elsewhere.
- 6.1.24 Minimum wages:** The contractor shall ensure minimum wages as prescribed in minimum wages Act as per the State / Central Government Act. He and his work force have to follow

safety standard prescribed. Contractor has to comply with all labor regulations as prescribed in various Acts in respect of himself and his man power.

6.1.25 Labor law: The contractor shall not employ persons below 18 years of age

6.1.26 Contractor terms & conditions: Department's permission shall be obtained by contractor for establishing shed/ office with an under taking for construction of shed with non- flammable material and for demolition of the same after completion of work with party's expenses.

6.1.27 The contractor shall take enough care to ensure to progress of the work without any material and personnel damage. It is the sole responsibility of contractor to ensure all safety norms to his personnel during transportation between work spot and Department/Contractor stores, and work in prefabrication area, in storage shed and in yard. Department will not hold responsibility to any mishap to the contractor personnel.

6.1.28 The contractor shall be responsible for the safe storage of radiography sources of his sub-contractor. Radiography source shall be stored in a room which is located about 5 Km from the work spot. However, transportation of source from the storage room to the work spot and back shall be the responsibility of contractor.

6.1.29 The contractor shall take prior approval from the Department for awarding sub contract for full / partial works in the contract if any and the payment for the subcontractor shall be the responsibility of the contractor.

6.1.30 Penalty clause: Department has to complete the project activities within the scheduled time and any delay from the contractor side is not acceptable.

Any delay from the contractor side, like delay in commencement works or non-deployment of full fabrication team (s) or non-execution of fabrication works, as specified or frequently absence of the fabrication team (s), will have serious effect on the scheduled launch activities.

Hence, the contractor has to ensure the availability of fabrication team (s) for smooth execution of works as per the department need and in case of noncompliance of the above points, penalty will be imposed on the contractor and the penalty will be deducted from running bills of the contractor.

The penalty will be applied as per the below table mentioned.

Table-2					
Penalty applicable for absent of contract fabrication teams					
Sl.no	Activity	Department	Action on contractor	Time line	Penalty amount Rs.
1	Contractor has to deploy the welding teams as per P.O. terms & conditions	clause no: 1.2.11, page no:5 and 12.17 page no:6	Contractor has to deploy the fabrication teams	-	--
2	commencement of works	Intimation will be given to the contractor though e-mail	Contractor has to deploy the fabrication teams	T0	Nil
3		Intimation will be given to the contractor though e-mail (T0)	Contractor has to deploy the fabrication teams within 15 days from the intimation day	T1 = T0 + 15days	Nil
4		Welder qualification test	Complete the welder's qualification test	T2 = T1 + 5days	Nil
Penalty for delay in commencement of the contract per day					
5	Absent of each fabrication team/day (penalty will be applicable per team per day)	Deploy the fabrication teams as per department requirement & as per clause no: 1.2.11, page no:5 and 12.17 page no:6	T3 = T2 + 10days	5, 000/day	
6			T4 = T3 + 10days	10, 000/day	
7			T5 = T4 + 10days	15, 000/day	
8	Non-execution / non-commencement of the works after sending three reminders (Beyond T5)		SDSC SHAR reserves the right to terminate the contract and also forfeit the SD amount with the approval of competent authority. However, Department decision is final.		
After commencement of works					
9	Non-deployment of fabrication team (Partially)	As per clause no: 1.2.11, page no:5 and 12.17 page no:6 not provided the fabrication teams and frequently absent	Absent of each team/day	Beyond T5	5, 000/day
10	In case the Department is not able to provide the facility for carryout the works or declare as non-working day(s), penalty will not be imposed to the contractor.				

- 6.1.31 Termination for Insolvency:** SDSC SHAR may, at any time, terminate the Contract by giving written notice to the Vendor, if the Vendor becomes Bankrupt or insolvent or any application for bankruptcy, insolvency or winding up has been filed against it by any person. In this event, termination will be without compensation to the Vendor, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to SDSC SHAR.
- 6.1.32 Invoking of Security Deposit:** Security deposit will be invoked for the following defaults from the bidder.
- 6.1.33 Based on the department need and available work-front, bidder has to provide the batches/welding team to carry out the work. There will be a temporary suspension of fabrication works due to safety restrictions / launch campaign which will be intimated by department and bidder has to resume the fabrication works within 5days of intimation for redeployment. If minimum 3 batches are not turned up for a period of more than 10days from the time of intimation to commence the fabrication works with full manpower.
- 6.1.34 Negligence in carrying out the fabrication works or carrying out, of work found to be unsatisfactory by the department.
- 6.1.35 If the performance of the bidder is not meeting the P.O. terms and conditions. During the progress of work, if minimum 3 batches are not provided.
- 6.1.36 In the event of any breach of any of the terms and conditions of the Contract, SDSC SHAR shall have the right to terminate the contract forthwith and / or to forfeit the entire amount of security deposit.
- 6.1.37 Bidder's responsibility & safety aspects:** The contractor shall train their workers on safety related aspects and implementation of safety precautions/procedures at work site and it is the responsibility of the successful bidder. The workforce deployed shall abide all the safety regulations and shall wear necessary safety equipment (PPE's) on the requirement and nature of work.
- 6.1.38 Bidder has to give an undertaking that they will comply with prevailing safety norms at site put forth by Department. Safety officer shall have full access to bidder's storage shed at any time for inspection
- 6.1.39 Utmost care shall be taken during removal and positioning of equipment's like heat exchangers, pumps, Pressure vessels and flow components.

- 6.1.40 Nearby equipment's if any shall be protected prior to the erection of new equipments to avoid any damage.
- 6.1.41 Contract agency is solely responsible for any injury/death of the workforce. Department is not liable for any misshape.
- 6.1.42 It is the responsibility of the Contractor to provide the Medical facility / treatment to his work force. However, Department will provide the First Aid for any minor mishaps.
- 6.1.43 Successful bidder will be provided the time to time safety and security regulations to be followed at work site by his employees. Violation of the same will be attracted penalty as per department norms.
- 6.1.44 Applicable Law:** The contract shall be interpreted in accordance with the laws of the Union of India and shall be subjected to the exclusive jurisdiction of courts at AP.
- 6.1.45 Termination:** SDSC SHAR reserves its right to terminate the Hire agreement for any reason at its absolute discretion including but not limited to the following: If the services are not adequate as follows, Breach of the contract terms & conditions and non-response of the contractor even after three notices.
- 6.1.46 COMMERCIAL TERMS AND CONDITIONS**
- 6.1.47 Offer Validity:** The validity of the offers / tenders should be 120 days from the date of opening of the tenders. Tenders with offer validity less than the period mentioned above, will not be considered for evaluation.
- 6.1.48 Liquidated Damages:** Since delivery is the essence of this order, in case of delay in completion of total scope of work beyond the stipulated delivery period, Liquidated Damage will be levied @ 1/2% per week or part thereof on undelivered portion as pre-estimated damages subject to a maximum of 10% of total order value.
- 6.1.49 Warranty:** not applicable, since work contract.
- 6.1.50 Security deposit:** To ensure due performance of the contract, please furnish security for 03% of the value of the Purchase Order within 15 days of award/release of contract as per the format issued by the purchaser. Security deposit may be furnished in the form of Insurance Security Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a commercial Bank, Bank Guarantee (including e-Bank Guarantee) from a Commercial bank executed on Rs.200/- non-judicial stamp paper or online payment in an acceptable form and

shall be valid till the completion of total contractual obligation (i.e., Supply period PLUS commissioning period PLUS warranty period PLUS 60 days). This will not carry any interest and shall be returned to you after successful completion of contractual obligations against your request. In case of non-performance/poor performance/breach of contractual obligations, bank Guarantee shall be forfeited and in case if the vendor fails to furnish the security deposit within the specified date, the Purchase Order/Contract liable to be cancelled.

- The bidders should note that conditional discounts would not have edge in the evaluation process of tenders.
- Non-acceptance of any conditions wherever called for related to Guarantee/ Warranty, Performance security, Liquidated damages, the bids are liable for disqualification.

6.1.51 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.

6.1.52 Make in India Clause: For this procurement, bids from Class-I and Class-II Local Suppliers are admissible.

Make-In-India (MII) Clause: For this procurement, provisions contained in Government Public Procurement Order No. P-45021/2/2017-PP(BE-II)-Part(4)Vol.II dated 19.07.2024 its latest directives/amendments there of shall be followed. Accordingly, you are requested to indicate the percentage of local content in the material, clearly mentioning the details of location(s) at which value addition is made in line with clause 9 to O.M dated 19.07.2024 referred above. It may be noted that Local Content shall not include services such as Transportation, Insurance, Installation, Commissioning, Training and after sales service support like AMC/CMC etc. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make in -India) order. Hence provisions contained in Public Procurement (Preference to Make in India), bidder shall provide compliance and undertaking as per order and hereafter amendments: Provisions contained in Government Public Procurement Order No. P-45021/2/2017-PP(BE-II)-Part(4)Vol.II dated 19.07.2024 is applicable.

- ✓ Class-I local supplier means a supplier or service provider, whose goods, service or works offered for procurement, has local content equal to or more than 50% as defined under this order.
- ✓ Class-II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 20% but less than 50% as defined under this Order
- ✓ Procurement/ Supply of repackaged/ refurbished/ rebranded imported products as understood commonly shall be treated as reselling of imported products and shall be excluded from calculation of local content.
- ✓ Imported items sourced locally from resellers/ distributors shall be excluded from calculation of local content.
- ✓ The license fees/ royalties paid/ technical charges paid out of India shall be excluded from local content calculation
- ✓ Verification of local content:
- ✓ The Class-I local supplier/Class-II local supplier at the time to tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for Class-I local supplier/Class-II local supplier as the case may be. They shall also give details of the location(s) at which the local value addition is made.
- ✓ In case bid value is in excess of Rs. 10 Crore, Class-I local supplier/Class-II local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant in respect of suppliers other than companies) giving the percentage of local content.
- ✓ False declarations will be in breach of the code of Integrity under Rule 15(1)(i)(h) of the General Financial Rules (GFR) for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Rules along with such other auctions as may be permissible under Law.
- ✓ A Supplier who has been debarred by any procuring entity for violation of this order shall not be eligible for preference under this order for procurement by any other procuring entity for the duration of the debarment.
- ✓ The percentage of local content should be specifically mentioned in the offer, without which it will be summarily rejected.
- ✓ Preference will be given to Class-I Local Supplier and in their absence, Class-II local supplier will be considered.

6.1.53 **DELIVERY TERM:** FOR-SDSC SHAR SRIHARIKOTA.

6.1.54 **TERMS OF PAYMENTS:** Payment shall be as per completed portion of the purchase order line items on PRO-RATA basis after duly certified by the Department Engineer. However, maximum number of bills shall be limited to 20 only. All the payments due to bidder shall be made through PFMS and bidder shall submit the bank details along with cancelled cheque.

6.2 **ARBITRATION:** Applicable Law, Jurisdiction and Arbitration: The Contract shall be interpreted, construed and governed by the Laws in India. In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Work Package Order(s), such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Office of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only.

- ✓ Work under the Work Package Order(s) shall be continued by the Service Provider during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the Service Receiver or unless the matter is such the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.
- ✓ ***In case order is concluded on the Public Sector Undertakings, the following Arbitration Clause will be applicable:*** In the event of any dispute(s) or difference(s) relating to the interpretation and application of the provisions of the commercial contracts between ISRO/SDSC SHAR & Central Public Sector Enterprises (CPSEs)/Port Trusts inter se and also between ISRO/SDSC SHAR & CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute(s) or difference(s) shall be taken by either party for resolution through the “Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD)”, as mentioned in the Office Memorandum F No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22nd May, 2018 issued by the Director of the Department of

Public Enterprises (DPE) under the Ministry of Heavy Industries and Public Enterprises, Government of India.

6.3 **FORCE MAJEURE:** A Force Majeure (FM) means extraordinary events or circumstance beyond human control such as an event described as an act of God (like a natural calamity) or events such as a war, strike, riots, crimes (but not including negligence or wrong-doing, predictable/seasonal rain and any other events specifically excluded in the clause). An FM clause in the contract frees both parties from contractual liability or obligation when prevented by such events from fulfilling their obligations under the contract. An FM clause does not excuse a party's non-performance entirely, but only suspends it for the duration of the FM. The firm has to give notice of FM as soon as it occurs (say, not later than 14 days after its occurrence), and it cannot be claimed ex-post facto. There may be a FM situation affecting the purchase organization only. In such a situation, the purchase organization is to communicate with the supplier along similar lines as above for further necessary action. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of FM for a period exceeding 90 (Ninety) days, either party may at its option terminate the contract without any financial repercussion on either side.

- Notwithstanding the punitive provisions contained in the contract for delay or breach of contract, the supplier would not be liable for imposition of any such sanction so long as the delay and/ or failure of the supplier in fulfilling its obligations under the contract is the result of an event covered in the FM clause.

6.4 **APPLICABLE LAW AND JURISDICTION:** The laws of India shall govern this contract for the time being in force. The Courts of Andhra Pradesh only shall have jurisdiction to be with and decide any legal matters or disputes what so ever arising out of the contract.

6.5 **Risk and Cost Purchase:** Timely delivery of goods/services is of prime importance and where the vendor fails to fulfil their contractual obligations, the Procuring Entity shall be entitled, and it shall be lawful on his part, to procure Stores and/ or services similar to those ordered/cancelled, with such terms and conditions and in such manner as it deems fit at the "Risk and Cost" of the Contractor and the Contractor shall be liable to the Procuring Entity for the extra expenditure, if any, incurred or accrued by the Procuring Entity for arranging such procurement. However, the Contractor shall not be entitled to benefits if any, from such procurements.

Prior to resorting to risk purchase the Purchaser shall consider impact of the default by the contractor, proper notice to the contractor to invoke risk purchase clause and method of recovering the additional amount spent by the Purchaser. The cost as per risk

purchase exercise may be recovered from the Earnest Money Deposit/ Security Deposit/ Performance Security of the supplier and/or bills submitted by the supplier against the same contract or any other contract. GST will be charged / levied on Risk Purchase as per the provision of GST Act Rule thereon.

Risk purchase action may be initiated under any of the following conditions.

- ✓ When the supplier fails to deliver the materials even after extending the delivery period.
- ✓ When the supplier fails to respond to purchases request for supply of the materials and fails to provide any genuine and bonafide reason for the delay in supply.
- ✓ When the supplier breaches any of the terms and conditions of the supply order/ contract and as a result fails to execute the order satisfactorily.

Bidding details: Section 7

Details: This is two-part bidding tender.

Part -1 Techno commercial bid details and Part -2 price bids are to be submitted separately.

Part-I: Techno-Commercial bid: The tenderer shall necessarily present the following in the techno-commercial bid

- 7.1 The tenderer shall furnish **point-wise confirmation (Technical Compliance attached in Annexure-II)** for the technical specifications given in the enquiry.
- 7.2 The tenderer shall necessarily furnish the details of previously executed orders. Necessary documentary evidence along with end user certificate (confirming the satisfactory performance) shall be submitted along with offer as a mandatory requirement. **Non-compliance of this requirement shall lead to rejection of the offer.**
- 7.3 **Bid Selection Procedure:** Bid Short listing based on documents submitted, satisfying all the eligibility criteria given above by the firm or individual along with their Bid / application. (Non-submission of any document as given in above list within stipulated time leads to rejection of Bid).
- 7.4 **Tenderer shall note that indication of price in the techno-commercial bid shall lead to dis-qualification of bid.**
- 7.5 **Disclosure of Price bid information in Techno- Commercial Bid shall be sufficient grounds for rejection of the bid.**
- 7.6 All the documents are to be submitted in e-procurement portal only. Documents submitted by hand/post shall not be considered.
- 7.7 **Similar work:** The Bidder should have the experience in executing SS pipe fabrication, Erection of equipment, hydro and pneumatic testing, EPC projects, oil & petroleum industries, Chemical plants, etc.
- 7.8 The price bids will be opened only after evaluation and acceptance of the technical bid of the respective tenderer.

- 7.9 **General conditions of the contract:** Contractor shall clearly indicate deviations if any from indent specifications in the offer, otherwise contractor has to accept all the terms and conditions put by the Department.
- 7.10 **Period of contract:** Period of Contract is for 24 months from the date of release of purchase order.
- 7.11 **Quantity variation:** The quantity variation of + 10% is permissible on the Total contract value based on site requirements. Price will be considered for this variation based on unit prices of the purchase order.
- 7.12 **Bidder Eligibility / Pre-Qualification Criteria:** *The Bidder must fill (don't write attached) the require data & submit the following with documentary proof to meet the Techno-commercial bid for prequalification of bidder. **without which the offer will not be considered.***

Sl. No	Confirmatory documents	Min. requirement	Compliance Submitted/not submitted
1	A signed, stamped, scanned copy of this tender technical document (Annexure-1) along with the Techno-commercial proposal as a token of acceptance of Tender terms & conditions (Page 1 to 39).	signed, stamped, scanned & submit	Submitted/not submitted
2	Company/Society/Firm registered in India since last 5 (five) years or more. Submit the company profile along with documentary evidence.	5 years	Submitted/not submitted
3	P.O copies with only structural steel welding, CS/GI pipe welding works are not acceptable.	Confirm	*
4	Contractor should have executed fabrication contracts involving erection and commissioning of piping (i.e. SS TIG Welding for pipe & tube, bending of SS pipes, radiography of SS butt welded joints) and MS structures (i.e. MS material supply, fabrication & erection works) during the last five years by considering last financial year ending with March-2025 shall be submitted for tender evaluation.	Confirm	WO value: SS WO value:

	Note: submitted work orders minimum 60% of P.O value should be SS fabrication works		
4.1	Single PO for similar works of Rs.300 Lakhs (or)	Rs.300 L	Submitted/not submitted
	Organization: Work order no: value: Rs. Supply items value: SS work value: MS/CS work value:		Filled/Not
4.2	Two POs for similar works of Rs.200 Lakhs each (or)	Rs.200 L	Submitted/not submitted
	Organization: Work order no: value: Rs. Supply items value: SS work value: MS/CS work value:		Filled/Not
4.3	Three POs for similar works of Rs.130 Lakhs each.	Rs.130 L	Submitted/not submitted
	Organization: Work order no: value: Rs. Supply items value: SS work value: MS/CS work value:		Filled/Not
5	Confirm the availability in company/farm the following manpower, machineries and equipment's. TIG welding machines	10 Nos	Available/ Not available
6	SMAW (ARC) welding machines	5 Nos	Available/ Not available
7	Number of pedestal drilling machines availability and drilling capacity 12mm- 5 Nos, 20mm- 3 Nos	8 Sets	Available/ Not available
8	Gas cutting equipments	5 Nos	Available/ Not available
9	Grinding/cutting machines	20 Nos	Available/ Not available
10	Site engineers/supervisors	10 Nos	Available/ Not available
11	Welding teams/gangs	10 teams	Available/ Not available
12	6G qualified welders	10 Nos	Available/ Not available
13	Supervisor (submit the proof minimum of one year, list of EPF or Company group insurance or company HR list or pay slip or bank salary statement)	10 Nos	Available/ Not available

14	Engineers (submit the proof minimum of one year, list of EPF or Company group insurance or company HR list or pay slip or bank salary statement)					5 Nos	Available/ Not available
15	The bidder should have average annual turnover of Rs.200 lakhs (Min) during last 3 years (Financial year 21-22, 22-23 & 23-24).					Rs.200 L	Available/ Not available
	Provide the document with page no						Submitted/not submitted
16	Bidder shall provide solvency certificate for a value of Rs.100 lakhs from a Commercial Bank issued as on or after 2025 along with offer.					Rs.100 L	Submitted/not submitted
17	Bidder shall have GST & PAN registration certificates and certificate shall be submitted for evidence GST No: PAN No:					GST & PAN	Submitted/not submitted
18	Self-declaration for not having any criminal case pending and should not have been blacklisted by Central / State Government organization / department in India at the time of submission of the Bid (Self-declaration has to be attached on stamp notary document)					Self-declaration	Submitted/not submitted
19	Audited balance sheet & Profit & Loss A/c is to be submitted & filled, copy of the IT return filed during last 3 years financial years for FY 2021-22, FY 2022-23 & FY 2023-24.					IT/audit report	submitted/not submitted
	Sl.no	Description	2021-22	2022-23	2023-24		Filled, submitted/not submitted
	1	Annual turn over	*	*	*		
	2	Profit	*	*	*		
	3	Loss	*	*	*		

19	Bidder shall provide the following details along with documentary evidence, which is mandatory to evaluate the technically and without documents offer will be liable to reject. The details of any one major executed work order/project, technical works like a fabrication, testing, supply of materials, experienced workforce availability for assess the technical capability.	To be filled by the bidder	Filled, submitted/not submitted
19.1	Project name, location & organization	*	submitted/not submitted
19.2	Work order copy, awarded/ released date	*	submitted/not submitted
19.3	Work completed date	*	submitted/not submitted
19.4	If partially/full done furnish the amount/work completed on & balance amount	*	submitted/not submitted
19.5	Confirm & submit the details of bill of material prepared	*	Yes/No
19.6	Confirm & submit the details of weld joint history documents prepared	*	Yes/No
19.7	Confirm the details of DP test was carried out	No. of joints	*
19.8	Confirm & submit the details of Radiography test (quality of 2-2T gamma ray/X-ray) carried out	No. of joints	*
19.9	Confirm & submit the No of equipment's erected	No's	*
19.10	Confirm & submit the No of SS butt weld joints with 100% radiography carried out	No. of joints	*
19.11	Confirm & submit the details of hydro test carried out (Size & Length)	m	*
19.12	Confirm & submit the details of Pickling & passivation was carried out (Size & Length)	m	*
19.13	Confirm & submit the proof for supplied MS structural material	Kg	*
19.14	Confirm & submit the proof for supplied SS pipes, Pipe fittings, pipe flanges, studs, bolts and etc.,	Lot	*

19.15	Confirm how many welding gang/teams deployed for the above project	Nos	*
19.16	Confirm how many 6G qualified welders deployed for the above project	Nos	*
19.17	Subsequently Bidder's competency, technical achievements and financial status will be evaluated. Feedbacks from Bidder's clients will be verified.	Agreed/Not agreed	
Note * : To be filled by the bidder			

7.13 Compliance: Point wise compliance to the tender specifications shall be submitted and any deviation from the specification shall be highlighted clearly in the offer. Technical compliance duly filled by the party as per section 8 to be submitted along with the offer.

7.14 **Award of contract:** In order to have better control on work quality and as the works are inter related, splitting the order item-wise is not envisaged and contract will be awarded on **Overall L1 basis** only.

Section-8:: Bidders Technical Compliance formats
(To be submitted by the bidder along with Technical Bid)

Tenderer shall furnish point-wise confirmation for the following. Change of specifications/ deviations (if any) shall be brought out in the offer with detailed justification.

Sl. No	Description	Confirm all the points are read, understood & accepted (Yes / No)
1.	The tender document each page was studied fully, under stood the technical specifications, terms and conditions of the documents and are acceptable in total (page No: 1 to 43)	Yes / No
2.	The tender document each page is signed, stamped and submitted/uploaded (page No: 1 to 43)	Yes / No
3.	Section-1 (SS & MS fabrication works details)	Yes / No
4.	Section-2 (Radiography, hydro test, pickling & passivation)	Yes / No
5.	Section-3 (Erection of tanks, pumps, heat exchangers, pipe spools with flow components, testing & commissioning)	Yes / No
6.	Section-4 (Tubing works for EP valves, solenoids and cubicles details)	Yes / No
7.	Section-5 (Minor civil works like grouting / cementing & Painting works)	Yes / No
8.	Section-6 (General terms and condition of the contract)	Yes / No
9.	Transportation, Accommodation and Canteen Facilities are in the scope of bidder	Yes / No
10.	Disclosures and Use of Information by The Contractor	Yes / No
11.	Arbitration, applicable law & jurisdiction	Yes / No
12.	Force majeure	Yes / No
13.	Short closure of the contract by the supplier	Yes / No
14.	Termination for any fault of the contractor	Yes / No
15.	Validity of the contract: Two year	Yes / No
16.	Disclosure of any Price information in Techno - Commercial Bid shall be the sufficient grounds for rejection of the offer.	Yes / No
17.	Confirm the minimum wages will be paid to the contract employees time to time as per Prevailing norms	Yes / No
18.	Payment will be made based on work completion only, however, to maintain the work quality and to meet the planned schedules, bidders deployed welding team will be monitored.	Yes / No

19.	Payment shall be as per completed portion of the purchase order line items on PRO-RATA basis after duly certified by the Department Engineer. However, maximum number of bills shall be limited to 20 only.	Yes / No
20.	Department will permit to work at site after qualification of welder to a level of 6G as per ASME Sec. IX.	Yes / No
21.	If any welder producing beyond the acceptable no. of repair joints, shall be replaced with another welder after due qualification.	Yes / No
22.	Bidder should have capability to deploy minimum of 5 to 7 welding teams at a time. One welding team consist of minimum 6G Welder-1No, Fitter-1No, Grinder-1No & helper-2No's.	Yes / No
23.	Bidder should ensure continuously minimum three teams/as per department requirement deployed for this contract period/work completion.	Yes / No
24.	Based on the work front Department may call additional one more team, with ten days advance intimation will be given through mail/fax/phone and bidder should deploy the welding team before stipulated time.	Yes / No
25.	Based on the department need and available work-front, bidder has to provide the batches/welding team to carry out the work. There will be a temporary suspension of fabrication works due to safety restrictions / launch campaign which will be intimated by department and bidder has to resume the fabrication works within 5 days of intimation for redeployment.	Yes / No
26.	It is the responsibility of the contractor to review and ensure the safety of contract employees, positioned at various facilities	Yes / No
27.	Police verification certificate will be submitted to the Contract persons to be deployed if contract is awarded.	Yes / No
28.	Contractor has to give an undertaking that they will comply with prevailing safety norms at site put forth by Department	Yes / No
29.	Bidder has to provide the necessary safety PPE's like a safety shoes, safety helmets, goggles, gloves, safety belts and also provide the transportation, accommodation and canteen facility for his employees.	Yes / No
30.	Department has to complete the project activities within the scheduled time and any delay from the contractor side is not acceptable. Hence, penalty is applicable for non-deployment of fabrication teams, contractor is penalized as per penalty clause no: 6.1.30, Table-2 and page no: 20 & 21	Yes / No
31.	Confirm acceptance for payment for the actual quantity supplied / laid/fabricated / erected portion only	Yes / No
32.	Work locations/facilities are spread in different locations within SDSC SHAR and the distance shall be 3 to 5 KM among the majority of the facilities and a maximum of 15 KM. Accordingly internal transportations shall be planned.	Yes / No

33.	Quantity variation of +10% shall be acceptable, whereas Purchaser reserves right to seek the requirement on real time need only.	Yes / No
Confirm the following factors considered while estimation		Considered/ Not Considered
34.	Confirm the tender all line items considered & estimated	Considered/ Not Considered
35.	Expenditure towards contractor site supervisors/engineers-2Nos	Considered/ Not Considered
36.	Confirm the salary, EPF, ESI, Bonus, etc. and any other allowances are considered for deployed welding teams, manpower, consumables, transportation, material handling equipments, equipment erection, testing, commissioning, painting, accommodation, canteen & radiography works	Considered/ Not Considered

Un Price Bid Format

(To be printed on letterhead and to be included in Techno-commercial bid Proposal)

Disclosure of any Price information in Techno- Commercial Bid shall be the sufficient grounds for rejection of the offer.

To,
Sathish Dhawan Space Centre,
ISRO, Sriharikota,
Tirupati dist
PIN. 524124

Dear Sir/ Madam,

Having examined the Bidding Documents, the receipt of which is hereby duly acknowledged, I / we, the undersigned, offer to supply and work as service providers to fabrication work contract as mentioned in the scope of the work & in conformity with the said bidding documents.

Sl. No	Work Description	Unit	Qty	Unit cost	Total cost
1	Fabrication (Butt welding) of SS pipe lines, D.P. Test and Radiography (100%) with weld consumables, Size: 100 NB.	Nos	675	Quoted /Not quoted	
2	Fabrication (Butt welding) of SS pipe lines, D.P. Test and Radiography (100%) with weld consumables, Size: 80 NB	Nos	1350	Quoted /Not quoted	
3	Fabrication (Butt welding) of SS pipe lines, D.P. Test and Radiography (100%) with weld consumables, Size: 50 NB	Nos	1400	Quoted /Not quoted	
4	Fabrication (Butt welding) of SS pipe lines, D.P. Test and Radiography (100%) with weld consumables, Size: 40 NB	Nos	600	Quoted /Not quoted	
5	Fabrication (Butt welding) of SS pipe lines, D.P. Test and Radiography (100%) with weld consumables, Size: 25 NB	Nos	560	Quoted /Not quoted	
6	Fabrication (Butt welding) of SS pipe lines, D.P. Test and Radiography (100%) with weld consumables, Size: 15 NB	Nos	1250	Quoted /Not quoted	
7	Fabrication (Butt welding) of SS pipe lines, D.P. Test and without Radiography with weld consumables, Size:15 NB to 40 NB	Nos	100	Quoted /Not quoted	

8	Fabrication (Butt welding) of SS pipe lines, D.P. Test and without Radiography with weld consumables, Size:50 NB to 80 NB	Nos	100	Quoted /Not quoted
9	Butt joints by GTAW welding process of CS pipes, DP testing and with 10% Radiography, size of the weld joint : 5" butt weld	Nos	100	Quoted /Not quoted
10	Socket Weld joints by GTAW welding process and DP testing , size : 15NB to 25NB	Nos	100	Quoted /Not quoted
11	SS Pipe bending 15 NB to 25 NB	Nos	850	Quoted /Not quoted
12	MS structural fabrication works: supply of MS structural materials & Fabrication of (Arc welding) of platforms, pipe supports, hand rails and anchoring works including painting	kg	140000	Quoted /Not quoted
13	Cable & Tube tray works: tube tray welding, cutting , fixing including clamps/ SS wires) and fabrication (Arc welding) at site as per requirement and anchoring works (Approx. length of trays 1000 m)	kg	3000	Quoted /Not quoted
14	Supply & erection of aluminium strip for earthing of equipments (W:25 x 3mm thick)	kg	600	Quoted /Not quoted
15	Tubing works for EP valves command tubes, Pressure transmitters, inside solenoid cubicles & control valves including painting, Tube size : 6mm	m	3000	Quoted /Not quoted
16	Command supply tube header works, tube size : 12mm including painting	m	850	Quoted /Not quoted
17	Solenoid cubicles tubing works including painting (Size: H: 2.0M X W: 1.2M X D: 0.4M and Weight:300kg/each)	Nos	13	Quoted /Not quoted
18	SS Piping Hydro test, Installation of flow components/Instrumentation as per P&ID, erection, clamping & erection Size 15NB to 40NB including painting	m	2500	Quoted /Not quoted
19	SS Piping Hydro test, Installation of flow components/Instrumentation as per P&ID, erection, clamping & erection Size 50NB to 80NB including painting	m	2500	Quoted /Not quoted
20	SS Piping Hydro test, Installation of flow components/Instrumentation as per P&ID,	m	1250	Quoted /Not quoted

	clamping, erection, clamping & erection Size 100NB to 125NB including painting			
21	Pickling & passivation of pipe lines including chemicals supply, pipe line size: 15NB-40NB	m	2500	Quoted /Not quoted
22	Pickling & passivation of pipe lines including chemicals supply, pipe line size: 50NB-80NB	m	2500	Quoted /Not quoted
23	Pickling & passivation of pipe lines including chemicals supply, pipe line size: 100NB-125NB	m	1250	Quoted /Not quoted
24	Erection of storage tanks including painting, Capacity:60 Cu.m & weight: 15T/tank	Nos	3	Quoted /Not quoted
25	Erection of Drain tank & Drain cum Pressurization tank below the FFL: 3.0m including painting, Capacity: 10 Cu.m & weight: 6T/tank	Nos	2	Quoted /Not quoted
26	Erection of Heat exchanger weight: 2T/HE	Nos	2	Quoted /Not quoted
27	Erection of Pumps including painting, weight: 1T/Pump	Nos	2	Quoted /Not quoted
28	RCC pipe supports for pipe lines which includes excavation and back filling, RCC- M30 grade (Cu.m)	Cu.m	7	Quoted /Not quoted
29	PCC for above pipe supports. (kg)	kg	2250	Quoted /Not quoted
30	Grouting works (kg)	kg	600	Quoted /Not quoted
31	Painting of tag numbers of flow components /equipments with black & white letters	Nos	2000	Quoted /Not quoted

Authorized signature with stamp

Bidders check list

(To be filled & submitted along with Technical Bid, submitted documents should be clearly visible and mention the page numbers)

Sl. No	Description	Compliance	Page no's			
1.	Confirm the tender technical document each page is signed, stamped and submitted/uploaded in e-procurement portal	Submitted/ not submitted	1 - 43			
2.	Confirm company/Society/Firm registration certificate is submitted	Submitted/ not submitted				
3.	Confirm filled the bidders technical Compliance format	Submitted/ not submitted				
4.	Confirm submission of the bidder's eligibility criteria & purchase orders/work orders	Submitted/ not submitted				
5.	Confirm submission of the solvency certificate	Submitted/ not submitted				
6.	Confirm submission of the GST & PAN copies	Submitted/ not submitted				
7.	Confirm submission of the satisfactory completion certificate from the end user	Submitted/ not submitted				
8.	Confirm submission of the self-declaration for not having any criminal cases	Submitted/ not submitted				
9.	Confirm submission of the Audited balance sheet/IT return filled	Submitted/ not submitted				
10.	Fill & submit the company turn over, profit & loss					
11.	Company	21-22	22-23	22-23		
12.	Turnover	*	*	*	Submitted/ not submitted	
13.	profit	*	*	*	Submitted/ not submitted	
14.	Loss	*	*	*	Submitted/ not submitted	
15.	Confirm submission of the purchase order copies, fill the PO/WO Nos & amount					
16.	No of P.Os	Rs. lakhs	Rs. lakhs	Rs. lakhs	PO/WO no's	
17.	1	*	*	*	*	Submitted/ not submitted
18.	2	*	*	*	*	Submitted/ not submitted
19.	3	*	*	*	*	Submitted/ not submitted
Fill the data and don't write attached						

Signature with stamp