

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA (SDSC SHAR)
NELLORE**

**Tender for Realization of Deluge systems for Augmented facilities at
SLP complex (ASLP) SDSC SHAR, Sriharikota.**

Bids to be submitted online

Tender No.: SDSC SHAR/LSSF PURCHASE/SH202200182201 dated 11-01-2023

A. Tender Details

Tender No :	SDSC SHAR/LSSF PURCHASE/SH202200182201
Tender Date :	11-01-2023
Tender Classification:	GOODS
Purchase Entity :	LSSF PURCHASE
Centre :	SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA (SDSC SHAR)

Realization of Deluge systems for Augmented facilities at SLP complex (ASLP) SDSC SHAR, Sriharikota.

Realization of Deluge systems for Augmented facilities at SLP complex (ASLP) SDSC SHAR, Sriharikota.

A.1 Tender Schedule

Bid Submission Start Date :	11-01-2023 11:40
Bid Clarification Due Date :	26-01-2023 16:00
Bid Submission Due Date :	09-02-2023 16:00
Bid Opening Date :	10-02-2023 14:30
Price Bid Opening Date :	10-03-2023 14:30

B. Tender Attachments

Technical Write-up/Drawings

Document : ASLP Deluge RFP Specifications

Document : ASLP Deluge Drawings

Document : Checklist to be filled by bidder

Document : Bidder Minimum Qualification Criteria

Document : Evaluation Criteria

Document : Format filled by bidder Techno-Commercial id

Instructions To Vendors

7. We are proposing to invite Tenders in Two Parts viz., Part-I Techno and Commercial & Part-II Price. All Tenderers are requested to follow carefully the following instructions before preparing their offer.

1.PART- I- TECHNO COMMERCIAL BID -

(1)This part should contain detailed Specifications of the items quoted by you along with Technical Literature and Leaflets if any.

(2)All the Commercial terms and Conditions applicable also should be indicated separately under separate heads.

(3)The Commercial terms such as delivery terms, delivery period, payment terms, warranty, validity of the offer, Installation & Commissioning, Duties and Taxes etc shall come into this.

(4)Either Technical Specifications or Terms & Conditions as above should be very clearly reflected items wise with reference to the items called for in the tender.

(5)Please not those Prices should not be indicated in this part.

(6)Any deviations from the Technical Specifications and Commercial Terms shall be indicated separately.

2.PART II PRICE BID

(1)The prices applicable for the items, item wise in response to the tender shall come into this part.

(2)Tender shall indicate very clearly item wise prices with reference to their Technical Offer.

C. Bid Templates

C.1 Technical Bid - Realization of Deluge systems for Augmented facilities at SLP complex (ASLP) SDSC SHAR, Sriharikota.

1. PIPING: Realization of Deluge systems for augmented facilities at SLP Complex ASLP (One lot consists of sch .of qty.defined in Specs)

Item specifications for PIPING

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Realization of Deluge systems for ISROsene storage & ISROsene DPT, SC120 LOX storage , C32 LOX Storage and also fire suppression systems augmentation for launch pad {Umbilical Tower(UT, Jet Deflection Duct(JDD), Mobile launch Pedestal(MLP)}which includes supply of all materials, Piping fabrication, erection, testing, painting, & commissioning including third party inspection as per the specifications Section- A to Section-D and table-1 for schedule of quantities.	YES/NO	Yes / No / Explain		
2	Summary of work scope SI.No.3.0 is understood and Accepted.	YES/NO	Yes / No / Explain		
3	Detailed scope of work SI.No.4.0 is understood and Accepted.	YES/NO	Yes / No / Explain		

4	Codes and standards to be followed for realization and philosophy followed for realization SI.No.6 & 7 are understood and Accepted.	YES/NO	Yes / No / Explain		
5	System realization procedure and scope of Department for system realization is understood SI.No.07 & 7.1 and accepted.	YES/NO	Yes / No / Explain		
6	Details of Free issue material under department scope is understood SI.No.08 and accepted.	YES/NO	Yes / No / Explain		
7	Scope of contractor SI.No.9.0, Procurement & supply SI.No.9.1 & 9.2 are understood and accepted.	YES/NO	Yes / No / Explain		
8	Onsite fabrication & Erection activities are understood, SI.No. 9.3. and accepted.	YES/NO	Yes / No / Explain		
9	Responsibilities of contractor for Inspection as per SI.No. 9.4 are understood and accepted.	YES/NO	Yes / No / Explain		
10	Testing and Evaluation (T&E) and commissioning of the system as per SI.No. 9.6 & 9.7 are understood and accepted.	YES/NO	Yes / No / Explain		
11	Modality of execution of contract as per SI.No. 10 is understood and accepted.	YES/NO	Yes / No / Explain		
12	Delivery schedule/Time line schedule as per SI.No.11 is understood and accepted.	YES/NO	Yes / No / Explain		
13	SECTION – A TERMS AND CONDITIONS FOR BID		-		

14	Confirm terms and conditions for Bids are understood SI.No. 1 and accepted.	YES/NO	Yes / No / Explain		
15	Confirm all Details are furnished for Part-I techno – Commercial bid SI.No.02 (Ensure prices are not indicated in Part-I) and SI.No.03 Part-II Price bid.(Ensure prices are quoted for all the items).	YES/NO	Yes / No / Explain		
16	Confirm Proposal document SI.No. 4. Ensure all points SI.No.4.1 to 4.7 are followed.	YES/NO	Yes / No / Explain		
17	Confirm there is no Ambiguity SI.No. 5	YES/NO	Yes / No / Explain		
18	Confirm bids are prepared as per SI.No.06	YES/NO	Yes / No / Explain		
19	Confirm bids evaluation is understood as per SI.No.07 and accepted	YES/NO	Yes / No / Explain		
20	Confirm Commercial terms are understood as per SI.No.08 and accepted	YES/NO	Yes / No / Explain		
21	Confirm Validity of the offer is understood SI.No.09 and accepted	YES/NO	Yes / No / Explain		
22	As all the scope of work is inter-related, Bidder has to quote for all the items listed in the Technical specification (Section-B & C), Schedule of quantities without which the offer will not be considered. SI.No.09	YES/NO	Yes / No / Explain		
23	Confirm Force majeure clause is understood and accepted, SI.No.10	YES/NO	Yes / No / Explain		

24	Confirm Arbitration clause is understood and accepted, SI.No.11	YES/NO	Yes / No / Explain		
25	Confirm Secrecy clause is understood and accepted, SI.No.12	YES/NO	Yes / No / Explain		
26	Conform Compliance with security requirements clause is understood and accepted, SI.No.13	YES/NO	Yes / No / Explain		
27	Confirm Confidentiality and proprietary right protection clause is understood and accepted, SI.No.14	YES/NO	Yes / No / Explain		
28	Confirm instructions to the bidder are understood and accepted, SI.No.15	YES/NO	Yes / No / Explain		
29	Confirm terms and conditions to Bidder are understood and accepted, SI.No.16	YES/NO	Yes / No / Explain		
30	Confirm Exclusion of tenders clause is understood and accepted, SI.No.17	YES/NO	Yes / No / Explain		
31	Confirm Insurance Clause is understood and accepted, SI.No.18	YES/NO	Yes / No / Explain		
32	Confirm termination for any fault of the contractor clause is understood and accepted, SI.No.19	YES/NO	Yes / No / Explain		
33	Confirm Cancellation in special cases clause is understood and accepted, SI.No.20	YES/NO	Yes / No / Explain		
34	Confirm specific requirements are understood and accepted, SI.No.21	YES/NO	Yes / No / Explain		
35	Confirm unit rates clause is understood and accepted, SI.No.22	YES/NO	Yes / No / Explain		
36	Confirm Safety clause is understood and accepted, SI.No.23	YES/NO	Yes / No / Explain		

37	Confirm Transportation & Material Handling clause is understood and accepted, SI.No.24	YES/NO	Yes / No / Explain		
38	Confirm Evaluation of machinery, man power & consumables clause is accepted, SI.No.25	YES/NO	Yes / No / Explain		
39	Confirm Medical assistance clause is understood and accepted. SI.No.26	YES/NO	Yes / No / Explain		
40	Confirm Record of documents, drawings and operation and maintenance manuals clause is understood and accepted, SI.No.27	YES/NO	Yes / No / Explain		
41	Confirm General conditions clause is understood and accepted. SI.No.28	YES/NO	Yes / No / Explain		
42	Confirm Bidder minimum qualification criteria is understood and accepted. SI.No.29	YES/NO	Yes / No / Explain		
43	Confirm Bidder evaluation criteria clause is understood and accepted. SI.No.30	YES/NO	Yes / No / Explain		
44	SECTION-B Specification for details of works to be carried out		-		
45	Specifications for Realisation of Deluge System for ASLP facilities , Chapter-1	YES/NO	Yes / No / Explain		
46	Fabrication and erection of Carbon Steel (CS) pipes (Butt-welding & Socket Welding, Chapter - 2	YES/NO	Yes / No / Explain		

47	Fabrication (Butt-welding & Socket Welding) and erection of Stainless steel pipe (SS304L/316L) TIG Welding and Radiography of Butt-welding weld joints, Chapter -3	YES/NO	Yes / No / Explain		
48	Carbon steel and Stainless steel piping system erection works, Chapter – 4	YES/NO	Yes / No / Explain		
49	Fabrication and Erection of M.S Structural Steel, Chapter – 5	YES/NO	Yes / No / Explain		
50	Providing RCC pipe pedestals, Equipment foundation and related Civil Works, Chapter – 6	YES/NO	Yes / No / Explain		
51	Procedure for Application of Wrapping and Coating Materials for CS buried Underground Piping, Chapter -7	YES/NO	Yes / No / Explain		
52	Tubing works for solenoids, actuators, Pressure transmitters, solenoid cubicles & tube tray works, Chapter – 8	YES/NO	Yes / No / Explain		
53	Erection of Equipment (Nitrogen receiver and Nitrogen Accumulator etc.), Chapter-9	YES/NO	Yes / No / Explain		
54	Third Party Inspection (TPI) scope, Chapter -10	YES/NO	Yes / No / Explain		
55	SECTION-C Specification of the items to be supplied Table -1: Details of Specifications of supply items required for water based deluge systems:		-		

56	Carbon steel pipes, Chapter-1 Preferable Make: MSL/JINDAL/SURY A ROSHINI/RATNAMA NI/TATA	YES/NO	Yes / No / Explain		
57	Carbon steel seamless pipes, Chapter-2 Preferable Make: MSL/JINDAL/SURY A ROSHINI/RATNAMA NI/TATA	YES/NO	Yes / No / Explain		
58	Carbon steel pipe fittings and flanges, Chapter-3 Preferable Make: Sanghvi Forging & engineering ltd/ Sawan engineers pvt ltd/Rajmani fittings pvt ltd/Rajendra Industrial corporation/ RD Forge./Gujarat Infra pipes (p) ltd./Mechwell fittings	YES/NO	Yes / No / Explain		
59	Wafer Type Manual Butterfly Valves, Chapter-4 Preferable Make: M/s L&T, M/s Flowserve (Audco)	YES/NO	Yes / No / Explain		
60	Electro -Pneumatic (EP) Butterfly valves, Chapter-5 Preferable Make: M/s Metso /M/s Tyco	YES/NO	Yes / No / Explain		
61	Carbon steel manual Ball valves, Chapter-6 Preferable Make: M/s L&T/ M/s Micro finish/M/s Audco	YES/NO	Yes / No / Explain		
62	Manual Water monitors, Chapter-7 Preferable Make: M/s Newage, M/s Winco/M/s Shah Bhogilal, M/s AAAG	YES/NO	Yes / No / Explain		

63	Remote operated long range water cum foam monitors; Flow rate: 3000lpm @ 7 bar; Fog/Jet nozzle including spares. Chapter-7A Preferable Make : SKUM	YES/NO	Yes / No / Explain		
64	Deluge valve – Piston Type, Chapter-8 Preferable Make: KIDDE	YES/NO	Yes / No / Explain		
65	Dry pilot actuator, Chapter-9 Preferable Make: HD Fire	YES/NO	Yes / No / Explain		
66	Quartzoid bulb detectors(QBDs)/ Pendent type sprinklers with SS protection guard, Chapter-10 Preferable Make:HD Fire/Tyco	YES/NO	Yes / No / Explain		
67	Medium velocity spray nozzles, Chapter-11 Preferable Make:HD Fire/Tyco	YES/NO	Yes / No / Explain		
68	Water filters,Chapter-12 Preferable Make:1.Sakthi-Hitech, Chennai, 2.Perfect engineering, Baroda, 3.Ultrafilter, Bangalore, 4.Mable engineers, Chennai, 5.MEFCO,Chennai	YES/NO	Yes / No / Explain		
69	Specification of Electro Galvanized fasteners, Chapter-13 Preferable Make:1.Mechwell fittings , Ahmedabad, 2.Tec aero devices, Hyderabad, 3.Lee hydraulics, Hyderabad, 4.Dabir, Thane, 5.VK technical works, Hyderabad,6.Venkat ewara Industries, Chennai	YES/NO	Yes / No / Explain		

70	Specification of Electro Galvanized U-clamps, Chapter-14 Preferable Make: 1.Mechwell fittings , Ahmedabad, 2.Tec aero devices, Hyderabad, 3.Lee hydraulics, Hyderabad, 4.Dabir, Thane, 5.VK technical works, Hyderabad, 6.Venkatewara Industries, Chennai	YES/NO	Yes / No / Explain		
71	Paints primer and Final coat paints, Chapter-15 Preferable Make: Asian paints / berger paints /CDC / Jerlac paints/Nerolac/Grand Polycoats	YES/NO	Yes / No / Explain		
72	MS structural material, Chapter -16 Preferable Make: TATA/TISCO/SAIL/JINDAL/VIZAG STEEL	YES/NO	Yes / No / Explain		
73	Miscellaneous items like Anchor fasteners CAF gaskets etc.,Chapter-17	YES/NO	Yes / No / Explain		
74	Table -2: Details of Specifications of supply items required for GN2 Command supply for deluge station	YES/NO	Yes / No / Explain		
75	Seamless Stainless-Steel pipes, Chapter-18 Preferable Make: Ratnamani metals & tubes ltd./REMI Edelstahl tubular ltd/Sandvickasia/Nuclear fuel complex.	YES/NO	Yes / No / Explain		

76	SS forged flanges, Chapter-19 Preferable Make: Sanghvi Forging & engineering ltd/Sawan engineers pvt ltd/Rajmani fittings pvt ltd/Rajendra Industrial corporation/RD Forge./Gujarat Infra pipes (p) ltd./Mechwell fittings	YES/NO	Yes / No / Explain		
77	SS forged Pipe fittings, Chapter-20	YES/NO	Yes / No / Explain		
78	Stainless steel Manual ball valves, Chapter-21 Preferable Make: L&T/ Audco/ Microfinish	YES/NO	Yes / No / Explain		
79	Pressure gauges, Chapter-22 Preferable Make: M/s WIKA/Fiebg/HGURU	YES/NO	Yes / No / Explain		
80	SS fasteners, Chapter-23 Preferable Make: 1.Mechwell fittings , Ahmedabad, 2.Tec aero devices, Hyderabad, 3.Lee hydraulics, Hyderabad, 4.Dabir,Thane, 5.VK technical works, Hyderabad, 6.Venkatewara Industries, Chennai	YES/NO	Yes / No / Explain		
81	SS U-clamps, Chapter-24 Preferable Make: 1.Mechwell fittings , Ahmedabad, 2.Tec aero devices, Hyderabad, 3.Lee hydraulics, Hyderabad, 4.Dabir,Thane, 5.VK technical works, Hyderabad, 6.Venkatewara Industries, Chennai	YES/NO	Yes / No / Explain		
82	SS Spiral wound gaskets, Chapter-25 Preferable Make: IGP/MIP/ Uniklinger	YES/NO	Yes / No / Explain		

83	Pickling and passivation of pipe lines , Chapter-26	YES/NO	Yes / No / Explain		
84	SS Nitrogen Receivers, Chapter-27 Preferable Make: Perfect engineering, Baroda /Shakthi hi-teck , Chennai /Mabel engineers, Chennai / L &T , Mumbai / Lloyds, Mumbai / Aspick,Chennai	YES/NO	Yes / No / Explain		
85	SS Nitrogen Accumulators, Chapter-28 Preferable Make: Perfect engineering, Baroda / Shakthi hi-teck , Chennai / Mabel engineers, Chennai / L &T , Mumbai / Lloyds, Mumbai /Aspick,Chennai	YES/NO	Yes / No / Explain		
86	SS Seamless tubes , Chapter-29 Preferable Make: Ratnamani metals & tubes ltd. / REMI Edelstahl tubular ltd / Sandvickasia / Nuclear fuel complex.	YES/NO	Yes / No / Explain		
87	SS Double compression pipe fittings, Check valves, Chapter-30 Preferable Make: M/s Parker/Swagelok	YES/NO	Yes / No / Explain		
88	GN2 Pressure regulators, Chapter-31 Preferable Make: IMF,FRANCE (IMFNorgren, Delhi)/Swagelok/Parker	YES/NO	Yes / No / Explain		
89	GN2 Filters, Chapter-32 Preferable Make: IMF,FRANCE(IMFN orgren, Delhi)/Swagelok/Parker	YES/NO	Yes / No / Explain		

90	Safety relief valves, Chapter-33 Preferable Make: Anderson greenwood Crosby sanmar	YES/NO	Yes / No / Explain		
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Document : ASLP Deluge RFP Specifications

Document : ASLP Deluge Drawings

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Realization of Deluge systems for ISROsene storage & ISROsene DPT, SC120 LOX storage , C32 LOX Storage and also fire suppression systems augmentation for launch pad {Umbilical Tower(UT, Jet Deflection Duct(JDD), Mobile launch Pedestal(MLP) }which includes supply of all materials, Piping fabrication, erection, testing, painting, & commissioning including third party inspection as per the specifications Section- A to Section-D and table-1 for schedule of quantities.	YES/NO	Yes / No / Explain		

2	Summary of work scope SI.No.3.0 is understood and Accepted.	YES/NO	Yes / No / Explain		
3	Detailed scope of work SI.No.4.0 is understood and Accepted.	YES/NO	Yes / No / Explain		
4	Codes and standards to be followed for realization and philosophy followed for realization SI.No.6 & 7 are understood and Accepted.	YES/NO	Yes / No / Explain		
5	System realization procedure and scope of Department for system realization is understood SI.No.07 & 7.1 and accepted.	YES/NO	Yes / No / Explain		
6	Details of Free issue material under department scope is understood SI.No.08 and accepted.	YES/NO	Yes / No / Explain		
7	Scope of contractor SI.No.9.0, Procurement & supply SI.No.9.1 & 9.2 are understood and accepted.	YES/NO	Yes / No / Explain		
8	Onsite fabrication & Erection activities are understood, SI.No. 9.3. and accepted.	YES/NO	Yes / No / Explain		

9	Responsibilities of contractor for Inspection as per Sl.No. 9.4 are understood and accepted.	YES/NO	Yes / No / Explain		
10	Testing and Evaluation (T&E) and commissioning of the system as per Sl.No. 9.6 & 9.7 are understood and accepted.	YES/NO	Yes / No / Explain		
11	Modality of execution of contract as per Sl.No. 10 is understood and accepted.	YES/NO	Yes / No / Explain		
12	Delivery schedule/Time line schedule as per Sl.No.11 is understood and accepted.	YES/NO	Yes / No / Explain		
13	SECTION – A TERMS AND CONDITIONS FOR BID		-		
14	Confirm terms and conditions for Bids are understood Sl.No. 1 and accepted.	YES/NO	Yes / No / Explain		
15	Confirm all Details are furnished for Part-I techno – Commercial bid Sl.No.02 (Ensure prices are not indicated in Part-I) and Sl.No.03 Part-II Price bid.(Ensure prices are quoted for all the items).	YES/NO	Yes / No / Explain		

16	Confirm Proposal document Sl.No. 4. Ensure all points Sl.No.4.1 to 4.7 are followed.	YES/NO	Yes / No / Explain		
17	Confirm there is no Ambiguity Sl.No. 5	YES/NO	Yes / No / Explain		
18	Confirm bids are prepared as per Sl.No.06	YES/NO	Yes / No / Explain		
19	Confirm bids evaluation is understood as per Sl.No.07 and accepted	YES/NO	Yes / No / Explain		
20	Confirm Commercial terms are understood as per Sl.No.08 and accepted	YES/NO	Yes / No / Explain		
21	Confirm Validity of the offer is understood Sl.No.09 and accepted	YES/NO	Yes / No / Explain		
22	As all the scope of work is inter-related, Bidder has to quote for all the items listed in the Technical specification (Section-B & C), Schedule of quantities without which the offer will not be considered. Sl.No.09	YES/NO	Yes / No / Explain		
23	Confirm Force majeure clause is understood and accepted, Sl.No.10	YES/NO	Yes / No / Explain		

24	Confirm Arbitration clause is understood and accepted, SI.No.11	YES/NO	Yes / No / Explain		
25	Confirm Secrecy clause is understood and accepted, SI.No.12	YES/NO	Yes / No / Explain		
26	Conform Compliance with security requirements clause is understood and accepted, SI.No.13	YES/NO	Yes / No / Explain		
27	Confirm Confidentiality and proprietary right protection clause is understood and accepted, SI.No.14	YES/NO	Yes / No / Explain		
28	Confirm instructions to the bidder are understood and accepted, SI.No.15	YES/NO	Yes / No / Explain		
29	Confirm terms and conditions to Bidder are understood and accepted, SI.No.16	YES/NO	Yes / No / Explain		
30	Confirm Exclusion of tenders clause is understood and accepted, SI.No.17	YES/NO	Yes / No / Explain		
31	Confirm Insurance Clause is understood and accepted, SI.No.18	YES/NO	Yes / No / Explain		

32	Confirm termination for any fault of the contractor clause is understood and accepted, SI.No.19	YES/NO	Yes / No / Explain		
33	Confirm Cancellation in special cases clause is understood and accepted, SI.No.20	YES/NO	Yes / No / Explain		
34	Confirm specific requirements are understood and accepted, SI.No.21	YES/NO	Yes / No / Explain		
35	Confirm unit rates clause is understood and accepted, SI.No.22	YES/NO	Yes / No / Explain		
36	Confirm Safety clause is understood and accepted, SI.No.23	YES/NO	Yes / No / Explain		
37	Confirm Transportation & Material Handling clause is understood and accepted, SI.No.24	YES/NO	Yes / No / Explain		
38	Confirm Evaluation of machinery, man power & consumables clause is accepted, SI.No.25	YES/NO	Yes / No / Explain		
39	Confirm Medical assistance clause is understood and accepted. SI.No.26	YES/NO	Yes / No / Explain		

40	Confirm Record of documents, drawings and operation and maintenance manuals clause is understood and accepted, SI.No.27	YES/NO	Yes / No / Explain		
41	Confirm General conditions clause is understood and accepted. SI.No.28	YES/NO	Yes / No / Explain		
42	Confirm Bidder minimum qualification criteria is understood and accepted. SI.No.29	YES/NO	Yes / No / Explain		
43	Confirm Bidder evaluation criteria clause is understood and accepted. SI.No.30	YES/NO	Yes / No / Explain		
44	SECTION-B Specification for details of works to be carried out		-		
45	Specifications for Realisation of Deluge System for ASLP facilities , Chapter-1	YES/NO	Yes / No / Explain		
46	Fabrication and erection of Carbon Steel (CS) pipes (Butt-welding & Socket Welding, Chapter - 2	YES/NO	Yes / No / Explain		

47	Fabrication (Butt-welding & Socket Welding) and erection of Stainless steel pipe (SS304L/316L) TIG Welding and Radiography of Butt-welding weld joints, Chapter -3	YES/NO	Yes / No / Explain		
48	Carbon steel and Stainless steel piping system erection works, Chapter – 4	YES/NO	Yes / No / Explain		
49	Fabrication and Erection of M.S Structural Steel, Chapter – 5	YES/NO	Yes / No / Explain		
50	Providing RCC pipe pedestals, Equipment foundation and related Civil Works, Chapter – 6	YES/NO	Yes / No / Explain		
51	Procedure for Application of Wrapping and Coating Materials for CS buried Underground Piping, Chapter -7	YES/NO	Yes / No / Explain		
52	Tubing works for solenoids, actuators, Pressure transmitters, solenoid cubicles & tube tray works, Chapter – 8	YES/NO	Yes / No / Explain		

53	Erection of Equipment (Nitrogen receiver and Nitrogen Accumulator etc.), Chapter-9	YES/NO	Yes / No / Explain		
54	Third Party Inspection (TPI) scope, Chapter -10	YES/NO	Yes / No / Explain		
55	SECTION-C Specification of the items to be supplied Table -1: Details of Specifications of supply items required for water based deluge systems:		-		
56	Carbon steel pipes, Chapter-1 Preferable Make: MSL/JINDAL/ SURYA ROSHINI/RAT NAMANI/TAT A	YES/NO	Yes / No / Explain		
57	Carbon steel seamless pipes, Chapter-2 Preferable Make: MSL/JINDAL/ SURYA ROSHINI/RAT NAMANI/TAT A	YES/NO	Yes / No / Explain		

58	Carbon steel pipe fittings and flanges, Chapter-3 Preferable Make: Sanghvi Forging & engineering ltd/ Sawan engineers pvt ltd/Rajmani fittings pvt ltd/Rajendra Industrial corporation/ RD Forge./Gujarat Infra pipes (p) ltd./Mechwell fittings	YES/NO	Yes / No / Explain		
59	Wafer Type Manual Butterfly Valves, Chapter-4 Preferable Make: M/s L&T, M/s Flowserve (Audco)	YES/NO	Yes / No / Explain		
60	Electro - Pneumatic (EP) Butterfly valves, Chapter-5 Preferable Make: M/s Metso /M/s Tyco	YES/NO	Yes / No / Explain		
61	Carbon steel manual Ball valves, Chapter-6 Preferable Make: M/s L&T/ M/s Micro finish/M/s Audco	YES/NO	Yes / No / Explain		
62	Manual Water monitors, Chapter-7 Preferable Make: M/s Newage, M/s Winco/M/s Shah Bhogilal, M/s AAAG	YES/NO	Yes / No / Explain		

63	Remote operated long range water cum foam monitors; Flow rate: 3000lpm @ 7 bar; Fog/Jet nozzle including spares. Chapter-7A Preferable Make : SKUM	YES/NO	Yes / No / Explain		
64	Deluge valve – Piston Type, Chapter-8 Preferable Make: KIDDE	YES/NO	Yes / No / Explain		
65	Dry pilot actuator, Chapter-9 Preferable Make: HD Fire	YES/NO	Yes / No / Explain		
66	Quartzoid bulb detectors(QBD s)/ Pendent type sprinklers with SS protection guard, Chapter-10 Preferable Make:HD Fire/Tyco	YES/NO	Yes / No / Explain		
67	Medium velocity spray nozzles, Chapter-11 Preferable Make:HD Fire/Tyco	YES/NO	Yes / No / Explain		
68	Water filters,Chapter-12 Preferable Make:1.Sakthi-Hitech, Chennai, 2.Perfect engineering, Baroda, 3.Ultrafilter, Bangalore, 4.Mable engineers, Chennai, 5.MEFCO,Chennai	YES/NO	Yes / No / Explain		

69	Specification of Electro Galvanized fasteners, Chapter-13 Preferable Make:1.Mech well fittings , Ahmedabad, 2.Tec aero devices, Hyderabad, 3.Lee hydraulics, Hyderabad, 4.Dabir, Thane, 5.VK technical works, Hyderabad,6.V enkatewara Industries, Chennai	YES/NO	Yes / No / Explain		
70	Specification of Electro Galvanized U-clamps, Chapter-14 Preferable Make: 1.Mechwell fittings , Ahmedabad, 2.Tec aero devices, Hyderabad, 3.Lee hydraulics, Hyderabad, 4.Dabir, Thane, 5.VK technical works, Hyderabad, 6.Venkatewara Industries, Chennai	YES/NO	Yes / No / Explain		
71	Paints primer and Final coat paints, Chapter-15 Preferable Make: Asian paints / berger paints /CDC / Jerlac paints/Nerolac/ Grand Polycoats	YES/NO	Yes / No / Explain		

72	MS structural material, Chapter -16 Preferable Make: TATA/TISCO/SAIL/JINDAL/VIZAG STEEL	YES/NO	Yes / No / Explain		
73	Miscellaneous items like Anchor fasteners CAF gaskets etc., Chapter-17	YES/NO	Yes / No / Explain		
74	Table -2: Details of Specifications of supply items required for GN2 Command supply for deluge station	YES/NO	Yes / No / Explain		
75	Seamless Stainless-Steel pipes, Chapter-18 Preferable Make: Ratnamani metals & tubes ltd./REMI Edelstahl tubular ltd/Sandvickasia/Nuclear fuel complex.	YES/NO	Yes / No / Explain		
76	SS forged flanges, Chapter-19 Preferable Make: Sanghvi Forging & engineering ltd/Sawan engineers pvt ltd/Rajmani fittings pvt ltd/Rajendra Industrial corporation/R D Forge./Gujarat Infra pipes (p) ltd./Mechwell fittings	YES/NO	Yes / No / Explain		
77	SS forged Pipe fittings, Chapter-20	YES/NO	Yes / No / Explain		

78	Stainless steel Manual ball valves, Chapter-21 Preferable Make: L&T/ Audco/ Microfinish	YES/NO	Yes / No / Explain		
79	Pressure gauges, Chapter-22 Preferable Make: M/s WIKA/Fiebg/H GURU	YES/NO	Yes / No / Explain		
80	SS fasteners, Chapter-23 Preferable Make: 1.Mechwell fittings , Ahmedabad, 2.Tec aero devices, Hyderabad, 3.Lee hydraulics, Hyderabad, 4.Dabir, Thane, 5.VK technical works, Hyderabad, 6.Venkatewara Industries, Chennai	YES/NO	Yes / No / Explain		
81	SS U-clamps, Chapter-24 Preferable Make: 1.Mechwell fittings , Ahmedabad, 2.Tec aero devices, Hyderabad, 3.Lee hydraulics, Hyderabad, 4.Dabir, Thane, 5.VK technical works, Hyderabad, 6.Venkatewara Industries, Chennai	YES/NO	Yes / No / Explain		

82	SS Spiral wound gaskets, Chapter-25 Preferable Make: IGP/MIP/Uniklinger	YES/NO	Yes / No / Explain		
83	Pickling and passivation of pipe lines , Chapter-26	YES/NO	Yes / No / Explain		
84	SS Nitrogen Receivers, Chapter-27 Preferable Make: Perfect engineering, Baroda /Shakthi hi-teck , Chennai /Mabel engineers, Chennai / L &T , Mumbai / Lloyds, Mumbai / Aspick, Chennai	YES/NO	Yes / No / Explain		
85	SS Nitrogen Accumulators, Chapter-28 Preferable Make: Perfect engineering, Baroda / Shakthi hi-teck , Chennai / Mabel engineers, Chennai / L &T , Mumbai / Lloyds, Mumbai /Aspick, Chennai	YES/NO	Yes / No / Explain		
86	SS Seamless tubes , Chapter-29 Preferable Make: Ratnamani metals & tubes ltd. / REMI Edelstahl tubular ltd / Sandvickasia / Nuclear fuel complex.	YES/NO	Yes / No / Explain		

87	SS Double compression pipe fittings, Check valves, Chapter-30 Preferable Make: M/s Parker/Swagelok	YES/NO	Yes / No / Explain		
88	GN2 Pressure regulators, Chapter-31 Preferable Make: IMF,FRANCE (IMFNorgren, Delhi)/Swagelok/Parker	YES/NO	Yes / No / Explain		
89	GN2 Filters, Chapter-32 Preferable Make: IMF,FRANCE(IMFNorgren, Delhi)/Swagelok/Parker	YES/NO	Yes / No / Explain		
90	Safety relief valves, Chapter-33 Preferable Make: Anderson greenwood Crosby sanmar	YES/NO	Yes / No / Explain		

Supporting Documents required from Vendor

1. SUBMISSION OF SPECIFICATION & TECHNICAL DATA SHEETS OF ALL SUPPLY ITEMS FOR PROPOSED DELUGE SYSTEM AS PER RFP SPECIFICATION SECTION-C

2. THE CHECKLIST TO BE FILLED BY THE CONTRACTOR AS PER THE RFP DOCUMENT SPECIFIED IN SECTION -D

3. EVALUATION CRITERIA AS PER THE SECTION-D IN RFP DOCUMENT ATTACHED

4. BIDDER MINIMUM QUALIFICATION CRITERIA AS PER THE SECTION-D IN RFP DOCUMENT ATTACHED

5. BIDDER SHALL SIGN AND STAMP EACH PAGE OF RFP AS TAKEN OF ACCEPTANCE AND SUBMIT ALONG WITH THE OFFER

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	The work includes supply of all material, piping fabrication, testing, erection, pipe pedestals, interfacing with existing deluge system, painting and commissioning as per the specifications in Section-B and Section – C	Yes / No / Explain	
2	Delivery Term: Please quote your rates on FOR- SDSC SHAR, Sriharikota basis including P&F & freight charges. If you quote YES or ACCEPTED or NOTED or AS PER TENDER SPECIFICATIONS, it means your prices are FOR- Sriharikota basis including P&F and FREIGHT charges. Even if you quote P&F and FREIGHT charges are extra in price bid or at any other place, this only holds good.	Yes / No / Explain	
3	Taxes: GST if any, please mention percentage (HSN/SAC code shall be indicated for each item and accordingly mention the GST Rate applicable as per prevailing guidelines.) Note: Suppliers are requested to explicitly state whether Quoted percentage/amount is Extra or Inclusive, If Not i.e, if you quote as "YES/Accepted /Noted/ As per tender specifications" it will be treated as included in the quoted basic cost.	Yes / No / Explain	
4	Do you have Unique GeM Seller ID? If YES, provide details If NO, As per Office Memorandum No 6/9/2020-PPD dated 24/08/2020 of Department of Expenditure, it shall be mandatory for sellers providing Goods and Services to Central Government Organizations to be registered on GeM and obtain a Unique GeM Seller ID, at the time of Placement of Order/acceptance of contract. Tenderers shall ensure the same.	Yes / No / Explain	
5	Please mention your GST registration details & enclose a copy of GST Registration. GST No. for SHAR- GSTIN: 37AAAGS1366J1Z1	Yes / No / Explain	

6	<p>As per Notification No. 05/2018 CUSTOMS Dtd. 25.01.2018 ISRO is eligible to reduced rate of customs duty @ 10.775% (CD@5% plus Surcharge@10% plus IGST@ 5%). In case of foreign component involved, We will provide Customs Duty Exemption Certificate in case of Import Orders/ imported supplies/ High Sea Sales. In this connection, tenderer has to provide the following.</p> <p>(i) Please indicate whether your rate is inclusive of this Customs duty @ 10.775% or extra. (ii) what would be the percentage of foreign exchange component you have considered in your quote. (iii) List of items with approximate quantities which require customs duty exemption certificate to be provided. Note: Suppliers are requested to explicitly state whether Quoted percentage is Extra or Inclusive, If Not i.e, if you quote as "YES/Accepted /Noted/ As per tender specifications" it will be treated as included in the quoted basic cost. Please note that in case of Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.</p>	Yes / No / Explain	
7	Delivery Schedule as per clause no.8(2) Section - A of Tender specifications:	Yes / No / Explain	
8	Payment Term :- 100% payment shall be made through PFMS within 30 days of erection & commissioning and acceptance of the item at our site. OR Payment terms as per clause no.8.3 of Section-A of Specifications	Yes / No / Explain	
9	Liquidated Damages (LD) :- Since delivery is the essence of this order, LD @ 0.5% per week or part thereof subject to a maximum of 10% of the order value for the delayed period of scope of work	Yes / No / Explain	
10	Warranty:- Warranty for the offered item shall be from the date of installation/acceptance of the item at our site for a minimum period of one year or as specified in the tender document.	Yes / No / Explain	

11	<p>Performance Bank Guarantee (PBG) :- You have to submit a PBG from a Nationalised / Scheduled Bank for 3 % of the order value at the time of supply valid till the completion of warranty period plus 60 days towards claim period.</p>	Yes / No / Explain	
12	<p>Security Deposit (SD) :- 3 % value of the order shall be deposited with SDSC within 10 days from the date of the Purchase Order towards security deposit in the form of Bank Guarantee towards performance of the Contract valid till completion of the contract period plus sixty days towards claim period. (This will be returned by SDSC immediately on execution of the order satisfactorily as per order terms. If not, the amount will be forfeited). NOT REQUIRED FOR LANDED COST BELOW RS.5 LAKHS.</p>	Yes / No / Explain	
13	<p>In case, if parties are unable to provide two separate BGs, i.e., one for SD & one for PBG, they can submit a combined BG for SD & PBG for 3 % of the Order value valid till the completion of total contractual obligation (i.e., Supply period plus warranty period plus 60 days). Please confirm.</p>	Yes / No / Explain	
14	<p>Insurance :- Being a Govt. Of India Dept., Insurance is not required at our cost. Please ensure the safe delivery of the ordered item with proper transport worthy packing.</p>	Yes / No / Explain	
15	<p>Validity of Offer :- 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 shorter than offer validity mentioned above will not be considered for evaluation.</p>	Yes / No / Explain	
16	<p>In case of foreign orders, (a) Please specify whether any Export clearance is required. (b) Please specify whether any agency commission is involved or not</p>	Yes / No / Explain	

17	<p>Special conditions against Indian Agents submitting quotations in Foreign Currency.</p> <p>(a) Foreign Principals proforma invoice indicating the commission payable to the Indian Agent and nature of after sales service to be rendered by the Indian Agent.</p> <p>(b) Copy of Agency agreement with the Foreign Principal, precise relationship between them and their mutual interest in the business.</p> <p>(c) The enlistment of the Indian Agent with Director-General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.</p>	Yes / No / Explain	
18	<p>Police Verification: The Contractor would be required to provide verification report from the local police authorities within one month from the date of receipt of the order, duly certifying the verification of the Character & Antecedents for each of the work force engaged by the contractor for executing the work.</p>	Yes / No / Explain	
19	<p>The Contractor shall verify/certify the conduct of the work force at frequent intervals. If any of the work force misbehaves or commits any misconduct, SDSC SHAR reserves the right to refuse permission to such persons to enter the premises and such work force shall be withdrawn by the contractor immediately.</p>	Yes / No / Explain	
20	<p>The Contractor shall employ Indian Nationals above age of 18 years only.</p>	Yes / No / Explain	
21	<p>The Contractor should have license to engage laborers under the provisions of Contract Labour (Regulation & Abolition) Act, 1970. Enclose a copy of Labour License as proof for the existing/ previous work order.</p>	Yes / No / Explain	
22	<p>The Contractor should comply all Labour Laws, Minimum Wages Act, Payment of Employees Provident Fund, ESI and Bonus under workmen Compensation Act and other laws applicable from time to time.</p>	Yes / No / Explain	
23	<p>Please provide an undertaking for the compliance of all Labour Laws as applicable from time to time including Minimum Wages Act, Payment of ESI/ EPF/ GST etc.</p>	Yes / No / Explain	

24	INCOME TAX: Income Tax at the prevailing rate as applicable from time to time shall be deducted from the successful Bidders bill as per the Income Tax Act, 1961 and the rules there-under or any re-enactment or Modifications thereof.	Yes / No / Explain	
25	Remarks if any	Yes / No / Explain	
26	Please provide valid/currently using E-mail Id & Contact No. for seeking further clarifications if any	Yes / No / Explain	

27	<p>For this procurement, bids from Class-I & class-II Local Suppliers are admissible. Hence provisions contained in Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DIPP), Ministry of Commerce & Industries vide letter No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 and subsequent amendment & directives shall be followed. Accordingly, offer will be evaluated & processed in conformation with above referred GOI order (Specially mentioned below). The bidder shall provide compliance and undertaking as per order and hereafter amendments: Order no: F.No.6/18/2019 PPD dated 23.07.2020 of Department of Expenditure), Ministry of Finance Under Public procurement division for the General Financial rule (GFRs).</p> <p>(a) 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 order.</p> <p>(b) Class-II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this Order.</p> <p>You are requested to provide Self Declaration Certificate that the offered Item meets Local Content Requirement of Class 1 or Class 2 as per Make in India(MII) Policy, clearly indicating the Percentage of local content & the details of Location(s) at which value addition is made in the offered product.</p> <p>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.</p>	Yes / No / Explain	
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28	<p>Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1 plus 15% (Selected by Buyer) of margin of purchase preference/price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total QUANTITY. Clearly specify whether you are eligible for MSE Preference. If YES, supporting documents shall be uploaded.</p>	Yes / No / Explain	
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C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	PIPING: Realization of Deluge systems for augmented facilities at SLP Complex ASLP (One lot consists of sch .of qty.defined in Specs)	1.00 Lot		-		