

भारत सरकार
अंतरिक्ष विभाग
सतीश धवन अंतरिक्ष केंद्र शार
श्रीहरिकोटा रेंज डा.घ. 524 124
श्री पोट्टि श्रीरामुलु नेल्लूर जिला, आं.प्र., भारत
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निविदा सूचना सं. **TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/RO-LSSF/35/2025-2026**

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/2025001251 [Public Tender – Two Part]	DC Regulated Power supply distribution system	1 Lot

निविदा दस्तावेजों को डाउनलोड करने की अंतिम तिथि Last Date for downloading of tender documents : 31.10.2025 at 14:00 hrs.
ऑनलाइन निविदा जमा करने की अंतिम तिथि Due Date for submission of bids online : 31.10.2025 at 14:00 hrs.
निविदाएं खोलने की नियत तिथि Due Date for opening of tenders : 31.10.2025 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 /25092025/D47UVTH3WBQG

दिनांक DT: 08.10.2025

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

भारतीय अंतरिक्ष अनुसंधान संगठन



Indian Space Research Organisation

RFP document for
Supply of DC Regulated power supply distribution system



LSSF
SATISH DHAWAN SPACE CENTRE SHAR
SRIHARIKOTA 524 124
INDIAN SPACE RESEARCH ORGANISATION

SECTION A

GENERAL TERMS AND CONDITIONS

REQUEST FOR PROPOSAL DOCUMENT

Quotations are invited from the interested bidders for the enclosed scope of supply in two-part bid.

This specifications document is organized in three sections as follows.

Section A	General Terms and Conditions
Section B	Technical Specifications & Scope of work
Section C	Formats to be filled by tenderer

Title of the proposal:

“Supply of DC Regulated power supply distribution system”

Date of Notification issued by ISRO: **As per notification**

Last Date of downloading tender Document by tenderer: **As per notification**

Last date of submission of tender documents in online by tenderer: **As per notification**

Last date of Bid sealing in online by ISRO: **As per notification**

Last date for giving open authorisation in online by tenderer: **As per notification**

SECTION -A

A PROPOSAL DOCUMENT

- 1.1. Bidder shall sign & stamp each page of the tender document (RFP) as token of his acceptance and submit/upload the same along with his offer.
- 1.2. Proposal documents shall remain the property of SDSC SHAR and shall not be used by the bidder for any another purpose without the consent of SDSC SHAR.
- 1.3. The proposal shall be completely filled in all respects and shall be tendered together with requisite information & Annexure. Offers incomplete in any aspect is liable to be rejected.
- 1.4. The Proposal with a complete set of the required documents shall be submitted/uploaded to SDSC SHAR web portal.
- 1.5. The Proposals shall be submitted before the time limit for bid submission specified in the Letter Inviting Bid.
- 1.6. The Proposal will be opened on the date and on the time specified in the Letter Inviting Bid or as soon thereafter as convenient. Proposal not received in time will not be considered.
- 1.7. Bidders shall submit their quotations in firm figures and without variations/additions in the terms of the Proposal documents.
- 1.8. Parties shall provide Compliance Statement for all the specifications, terms and conditions mentioned. Any deviations from the tender specifications shall be brought out clearly. **As all items are inter-related, splitting of order is not possible.**
- 1.9. Party shall clearly indicate the delivery schedule from date of receipt of the order.

1.10. AMBIGUITY:

Should there be any ambiguity or doubt as to the meaning of any of the tender clause/condition or if any further information is required, the matter shall be immediately brought to the notice of Head, Purchase & Stores of SDSC SHAR in writing and clarifications shall be obtained before bid submission date.

B. PREPARATION OF BIDS

Validity of Offer

Bid shall remain valid for acceptance for a minimum period of 120 days from the due date of submission of the Bid and the quoted prices shall be valid for the total period of 120 days. Tenders with offer validity less than the period mentioned above, will not be considered for evaluation. The Bidder shall not be entitled during the said period to revoke or revise his Bid or to vary the Bid except and to the extent required by SDSC SHAR in writing. Bid shall be revalidated for extended period as required by SDSC SHAR in writing. In such cases, unless otherwise specified, it is understood that validity is sought and provided without varying either the quoted price or any other terms & conditions of Bid finalized till that time.

Cost of Bidding

All direct and indirect costs associated with the preparation and submission of bid shall be to Bidder's account and SDSC SHAR will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bid process.

Applicable Language/ measurements

The bid and all correspondence incidentals to and concerning the bid shall be in the English Language. For supporting document and printing literature submitted in any other language, an accurate English Translation shall also be submitted. Responsibility for correctness in translation shall lie with the Bidder. All the measurements shall be given in metric system.

C. BID SUBMISSION

Bids duly filled in by the Bidder should invariably be submitted as stipulated in the Letter inviting bid. Bids shall be submitted in the following manner.

Arrangement of Bid

The Bid shall be neatly presented on white paper with consecutively numbered pages. It should not contain any terms and conditions which are not applicable to the Bid. The Bid and all details submitted by the Bidder shall be signed and stamped on each page as token of acceptance, by a person legally authorised to enter into agreement on behalf of the Bidder. (Corrections/ alteration, if any, shall also be signed by the same person).

Schedule of Prices

The Schedule of prices shall be read in conjunction with all the sections of proposal document.

Price Part of the Bid for the Supply

Price bid shall be filled in the 'price bid' form of the-tender only. The cost of items and other prices shall be filled in the respective forms available. Any other terms and conditions given in this part shall not be considered and if insisted upon by the Bidder, bids are liable for rejection.

- a) SDSC SHAR reserves the right to reject any or all the Bids without assigning any reasons thereof.

Documents Comprising the Bid

Bids shall be arranged in the following order.

Offers shall be submitted in TWO-PARTS as per the details given below:

- a) Part-I – Techno-commercial Bid
- b) Part-II – Price Bid indicating the price

The Offers submitted contrary to above will be liable for rejection.

Department will open the Techno-commercial (Part 1) bid on the due date of opening. Price bid (Part-2) will be opened if the techno-commercial bid is accepted.

Part-I – Techno-commercial Bid

The tenderer shall furnish point-wise confirmation for the technical specifications given in the enquiry. However, change of specifications/ deviations (if any) shall be brought out in the offer as deviation summary with detailed justification. Exclusions, if any from scope of supply shall be clearly indicated in the offer. Offers fulfilling this condition only will be short listed for price bid opening. The following are the list of documents to be submitted.

- a. Signed copy of each page of Tender/Indent specifications.
- b. Necessary supporting documents like technical datasheets, manuals, drawings of all the quoted equipment's / instruments, product catalogue highlighting the quoted make and model numbers shall be provided
- c. **Filled checklist for Technical compliance as per Annexure-I, filled Deviations & Exceptions if any as per Annexure-II, filled acceptance of terms and conditions as per Annexure-III, filled bid evaluation criteria compliance statement as per Annexure IV, filled bid eligibility criteria compliance statement as per Annexure V, compliance for approved makes as per Annexure IV shall be attached with signature of authorised person with seal**
- d. Tenderer need to furnish the details related to commercial terms indicating payment terms, details of bank guarantee in case of advance payments etc.
- e. Tenderer shall quote the prices on "FOR Sriharikota" basis.
- f. The Bidders shall indicate clearly the delivery/time period for supplying the items to SDSC SHAR.
- f. Bidder need to submit Unpriced price bid copy (as highlighted below) indicating the description of all the cost elements considered, **without indicating the price**. Tenderer shall note that indication of price in the techno-commercial bid shall lead to dis-qualification of bid.

Table: FORMAT OF UN-PRICED PRICE BID

Sl. no	Description	Unit	Quantity nos	Unit Cost (inclusive of all charges)	GST as applicable (Mention Only in percentage of unit cost as / if applicable)	Total Cost inclusive of GST (INR)	Tenderer's Confirmation Separate Cost mentioned in price bid (YES/NO)
1.	Supply of DC Regulated power supply distribution system	no	01	Unpriced	Unpriced	Unpriced	Yes / No
Grand Total cost (in Lakhs) (INR)				Unpriced	Unpriced	Unpriced	Yes / No

Part-II – Price Bid indicating the price

Price bid should be submitted by the tenderer in the following format with price break-up. In view of Two Part Tender, the Offers submitted contrary to above instructions will be summarily rejected. Priced commercial bid shall contain schedule of prices duly filled in, signed and stamped. No deviations, terms and conditions, assumptions, conditions, discounts etc. shall be stipulated in price bid. Department will not take cognizance of any such statement and may at their discretion reject such bids.

Table: FORMAT OF PRICED PRICE BID

PRICED BID

S.L no	Description	Unit	Quantity nos	Unit Cost (inclusive of all charges)	GST as applicable (Mention Only in percentage of unit cost as / if applicable)	Total Cost inclusive of GST (INR)
1.	Supply of DC Regulated power supply distribution system	no	01	Priced	Priced	Priced
Grand Total cost (in Lakhs) (INR)				Priced	Priced	Priced

D. DETERMINATION OF RESPONSIVENESS

SDSC SHAR will scrutinize tenders to determine whether the tender is substantially responsive to the requirements of the tender documents. For the purpose of this clause, a substantially responsive tender is one which inter-alia conforms to all the terms and conditions of the entire Tender document without any deviations and reservations. The decision of SDSC SHAR shall be final in this regard.

E. BID EVALUATION

- 1) During evaluation and any stage of evaluation, SDSC SHAR may request bidder for any clarification on the bid or additional documents.
- 2) Techno-commercial discussion shall be arranged with bidder, if needed. Bidder shall depute his authorized representatives for attending discussions. The representatives attending the discussions shall produce authorization from his organization to attend the discussion and sign minutes of meeting on behalf of his organization if required. The authorized representative must be competent and empowered to settle/decide on all technical and commercial issues.
- 3) Bidder must provide the point-by-point compliance to the technical specifications along with deviations if any. The tender will be rejected, if the deviations are not acceptable to the department.
- 4) The time schedule for completion is given in the proposal document. Bidder is required to confirm the completion period unconditionally.
- 5) If necessary, to arrive at evaluated prices, wherever applicable, loading on total quoted prices shall be done.
- 6) SDSC SHAR reserves the right to accept a bid other than a lowest and to accept or reject any bid in full or part without assigning any reasons. Such decisions by SDSC SHAR shall bear no liability whatsoever consequent upon such decision.
- 7) The bidders shall note that conditional discounts would not have edge in the evaluation process of tenders.

The bidder shall provide compliance statement for the bidder evaluation criteria given in Annexure IV

F. BIDDER'S ELIGIBILITY CRITERIA

- 1) The tenderer has to furnish the make, model no, manufacturing, assembly and testing facilities etc. of quoted items along with techno-commercial bid.
- 2) The tenderer should have executed Supply of DC Regulated power supply distribution system in the last three years for a value not less than worth of ₹17.904 lakhs in a single order / at least two orders of worth ₹13.428 lakhs each / at least three orders of worth ₹8.952 lakhs each. Documentary evidence shall be provided along with the techno-commercial bid. (The relevant purchase orders and corresponding work completion certificates indicating the reference PO shall be provided. Non submission of the same shall lead to disqualification of the offer.)

- 3) The tenderer's average annual financial turnover shall be not less than ₹27.975 lakhs per year during last three Financial years ending with 31.03.2025. Certified documentary evidence with turnover details of last three Financial years shall be provided along with the techno-commercial bid.
- 4) **The department reserves the right to evaluate the tenderer in case of need or as per department's requirement. The tenderer shall co-operate for the vendor evaluation.**
- 5) The tenderer must provide a self-declaration that they have not been black listed by any Govt. Department/PSU.

The bidder's eligibility criteria compliance statement shall be provided by the bidder in the format given in Annexure V.

H. TAXES AND DUTIES

1. TAXES & DUTIES:

GST: As per the Notification No. 6/2018-Central Tax (Rate) dt:25.01.2018 A(ix) S.No.243A (88 or any other chapter) as amended by Notification No.24/2018-Central Tax (Rate) Dt: 31.12.2018 b(viii) S.No.243B issued by Ministry of Finance (Dept. of Revenue) & Government of Andhra Pradesh, Revenue (Commercial Taxes-II) Department, G.O.MS.No. 93 Dated: 19-02-2018 A(ix) S.No.243A and as per the Notification No. 7/2018-Integrated Tax (Rate) dt:25.01.2018 A(ix) S.No.243A (88 or any other chapter) as amended by Notification No.25/2018-Integrated Tax (Rate) Dt: 31.12.2018 b(viii) S.No.243B issued by Ministry of Finance (Dept. of Revenue), SDSC SHAR is eligible to avail GST/IGST @5% for the procurements related to Scientific and technical instruments, apparatus, equipment, accessories, parts, components, spares, tools, mock ups and modules, raw material and consumables required for launch vehicles and satellites and payload. we will issue only End-Use Certificate for availing GST/IGST @5%. Hence, submit your price quotation by considering 5% GST.

2. INCOME TAX

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

I. SECURITY DEPOSIT

Security Deposit for 3% of the order value is mandatory. Party shall furnish the Security Deposit in the form of Bank Guarantee from nationalized/scheduled/First class international reputed bank or by Demand Draft valid till completion of the delivery period plus sixty days towards claim period for faithful execution of the contract.

J. 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.

K. LIQUIDATED DAMAGE

Time is the essence of this order. LD shall be levied from the supplier at the rate of 0.5% of the order value per week or 0.5% of the value of the stores for which the delivery is delayed for each week of delay, as the case may be, subject to a maximum of 10% of the order value.

L. PERFORMANCE BANK GUARANTEE

PBG at 3% of the value of the Purchase Order shall be submitted through bank guarantee from any of the Scheduled Banks executed on non-judicial stamp paper of appropriate value, and shall be valid for a period of sixty days beyond the date for completion of warranty period.

M. 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 organisation only. In such a situation, the purchase organisation 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.

N. 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.

O. PAYMENT TERMS

In general, our payment terms will be 100% within 30 days after receipt and acceptance of material at our site.

P. DELIVERY

Delivery is the essence of the PO. Delivery period for the supply items, erection, commissioning, testing and documentation is 24 weeks from the date of PO.

SECTION B

Technical Specifications & Scope of work

1. **Scope:** Supply of DC Regulated power supply distribution system to SDSC SHAR, Sriharikota, India as per specifications and conditions given below.

The DC Regulated Power supply distribution system is mainly to distribute the DC Power to the SLP Safety Process elements with Remote Power ON & OFF feature.

A Remote DC Power Supply Distribution system consists of SMPS DIN rail mountable / Rack Mounted DC power supply units installed in a Floor mountable rack with Remotely powering ON & OFF SMART Contactors with bypass provision.

2. **Detailed description of remote Power ON & OFF system:**

- All DC power supply units need to be powered ON (AC 230V supply extension) through PLC based system (PLC is in department scope)
- Configuration as per GA drawing
- IP based commands will be extended from the existing Remote Power On system. Panel should have IP based Smart links (Schneider make).
- From smart links, digital output commands will be extended to Schneider Reflex iC60 Integrated control circuit breakers of suitable ratings for remote control of ON & OFF
- 04 Nos of circuit breaker arrangements to be planned. 02 Nos for main chain and 02 numbers for Redundant chains
- 10 Nos of DC power supply units (20A) shall be powered ON through one circuit breaker. Model number, Ratings & Characteristics of the circuit breaker shall be suitably selected on considering the inrush currents
- MCCB will be in parallel with Circuit breaker to enable the bypass provision. Selection of MCCB also as per sl. No: e & f

3. **Specification of DC Regulated Power Supply Unit:**

SL.NO.	PARAMETERS	SPECIFICATIONS
1.	Type	Switched Mode Power Supply
2.	Output Voltage	Output voltage shall be fully floating up to 300 volts above ground reference and the set voltage shall be adjustable between 22 Volts to 28 Volts or better
3.	Output Current	<ul style="list-style-type: none">10A - 19 Units20A - 07 Units
4.	AC Input Voltage	180 to 260V AC, Single Phase
5.	AC Input Frequency	50±1 Hz
6.	Line Regulation	<± 0.5 % of rated Output Voltage (From 185V AC to 265V AC at constant load)
7.	Load Regulation	<0.5 % if diode is external to power supply of rated Output Voltage (From No-Load to Full-Load, constant input voltage) OR <0.5 % + Diode drop if diode is internal to power supply of rated Output Voltage (From No-Load to Full-Load, constant input voltage)

SL.NO.	PARAMETERS	SPECIFICATIONS
8.	Output Ripple voltage (R.M.S)	<10 mV rms
9.	Transient Recovery time	1ms or better for a load change 10 to 90% of rated output current
10.	Over load and Short circuit protection	Output protected from automatic overload and continuous short circuit.
11.	Over-Voltage Protection	To be provided and can be programmed/adjusted by user using front panel or by remote computer
12.	Monitoring and Controls	<ul style="list-style-type: none"> • Power supply ON/OFF Switch on the front. • Output voltage and current adjustments from front panel and remote programming. • DC Voltage Monitoring terminals on front/rear panel before ORing diode. • Power supply configuration buttons on front side of power supply unit
13.	Indication (Front panel)	<ol style="list-style-type: none"> 1. Power supply ON indication for AC input and DC output. 2. Output Over voltage 3. Overload current or CC Indication 4. Digital Display meter on front shall be provided for display of parameters
14.	Power supply DC output ON status	<ul style="list-style-type: none"> • For remote Health status Monitoring of power supply, power supply shall be provided with either Potential free contact. • If Power supply is featured with isolated TTL signal, party shall derive the DC Output ON status by external add-on electromechanical relays • The relay shall be driven prior to 'OR'ing diode if diode is internal to power supply. The electromechanical relays of OEN or reputed company make subject to approval from department.
15.	Terminations	Rugged Terminals at rear for DC output and Potential free contacts.
16.	Accessories	All the suitable mounting accessories shall be provided in total
17.	Oring Diode	<ul style="list-style-type: none"> • Internal Oring diode module is preferable. • Suitable for configuration in Hot Standby mode with diode Oring. Looping shall be carried out externally for Oring purpose for all. • If Oring diode module is external, suitable power rating of diode modules with mounting accessories shall be provided along with power supply units. • The selected diode shall meet the maximum voltage requirement and 110% of maximum rating of the power supply on continuous duty.

SL.NO.	PARAMETERS	SPECIFICATIONS
18.	Transformers	Transformers used shall be suitable rating, high quality and shall be made of copper
19.	Insulation resistance test	Shall be ≥ 50 M ohms at 25°C, 70%RH between output and ground
20.	Efficiency	>80% (at rated capacity)
21.	Operating temperature	10°C to 50°C
22.	Storage temperature	20° C to 70°C
23.	Humidity	<80% RH non condensating
24.	Cooling	Forced air cooling by internal fan
25.	Make	Rato / Aplab / Scientific / Reputed
26.	Tests to be carried out	<ul style="list-style-type: none"> • Pre delivery inspection will be carried out at supplier's site / manufacturer site / NABL Accredited National labs by our panel of Engineers prior to dispatch, for which party shall extend necessary technical support. The following tests to be carried out as per approved QAP: <ul style="list-style-type: none"> a. Physical verification for workmanship and engineering. (All the Units) b. Functional checks (O/P) @ Full load, Redundancy changeover tests, Voltage adjustment, Current limit etc. (100%) c. Load and line regulation, remote status monitoring, I/P & O/P under and over voltage, over load and short circuit protections (100%) d. Ripple and Noise measurement test (100%) e. Interfaces to remote controller / PC and demonstrate the output settings, status monitoring f. Environment testing Thermal test of Power supplies at 50°C and 80% RH for a duration of 72 Hrs (for randomly selected power supplies of each type 1 unit randomly selected including diode module) <p>All the tests shall be carried out at suppliers' premises and in the scope of supplier.</p>

4. Specification of Industrial DC Power Supply Distribution Rack:

- Industrial racks shall be robust, free standing, floor-mounted, double door, with locking provision.
- These racks shall be equipped with DC regulated power supply units, Diode Oring modules, relay boards, IP based smart link devices, Contactors, MCBs, Terminal blocks etc. as per BOM.
- Racks Dimensions: ~2100(H) x 400(D) x 1200(W) mm, Make: Rittal / Reputed

- d. 100 mm ISMC base channels shall be separately provided all along with the base of the racks.
- e. Material of construction for Instrument racks shall be of CRCA steel with powder coating.
- f. Thickness of bottom & Top Plates and gland plates shall be of 3 mm. Thickness of side plates and front access doors & rear doors shall be of 2 mm.
- g. Cable entry for rack shall be from bottom through removable cable gland plates.
- h. Connector plate required for DC output terminations.
- i. Rack shall be provided with 2 numbers of copper bus bars isolated from each other and the body of the rack for power & instrumentation Earthing.
- j. Rack should have panel lighting, ventilation fans and forced cooling arrangements as per the heat dissipation calculations of the power supply units installed in the rack.
- k. Panel should be compliance of relevant as per Electrical and safety standards.
- l. General arrangement layouts will be finalized during detailed engineering and shall be approved by Department.

5. Internal Wiring of Panel:

- a. All the equipment's / components shall be as per approved GA drawings and relevant standards
- b. All DC outgoing interfaces through MIL connectors
- c. All 230V AC terminations through MCBs
- d. 5A sockets (02 Nos) with MCB control shall be provided for utility
- e. DCPS status interfacing up to MIL connector through connector mounting plate
- f. DCPS output voltage to be extended to MIL connectors through DC Contactors NC contact
- g. MCCBs for extending the Incoming 3 phase UPS – 1 & UPS – 2 supply for the panel
- h. Provision shall be made available for installing 24 Nos of DC power supply units (total) and associated diode Oring modules and relay modules.
- i. Internal wiring like distribution of 3Ph Ac supply, 1Ph supply, DC Power, status interfaces, proper sizing of the cable based on current ratings, color codes, cross feruling and as per relevant electrical standards.
- j. Earthing of the panel
- k. DC output voltage fed to Diode Oring and the ored output interfaced to terminal blocks further to Receptacle MIL connectors

6. Supply of Smart Remotely Powering ON & OFF System:

- a. Regulated DC power supply units as per the attached specifications
- b. Suitable industrial rack with proper design of lighting, ventilation with forced cooling arrangements.
- c. SMART Circuit breakers must have provision for remote ON & OFF control.
- d. MCCBs for installing across the contactors for operation in bypass mode
- e. Modbus gate way interfaces for PDUs
- f. Provision for accepting the IP based commands for operating the Contactors remotely. However, note that PLC system is in the Department scope
- g. Auxiliary relays for extension of power supply status to remote controller (In built Relay and Potential free contacts is preferred).
- h. Gland plates for incoming and outgoing cable interfaces, punching details shall be approved after PO placement.
- i. End to end testing and wiring drawings.

7. Scope of Works:

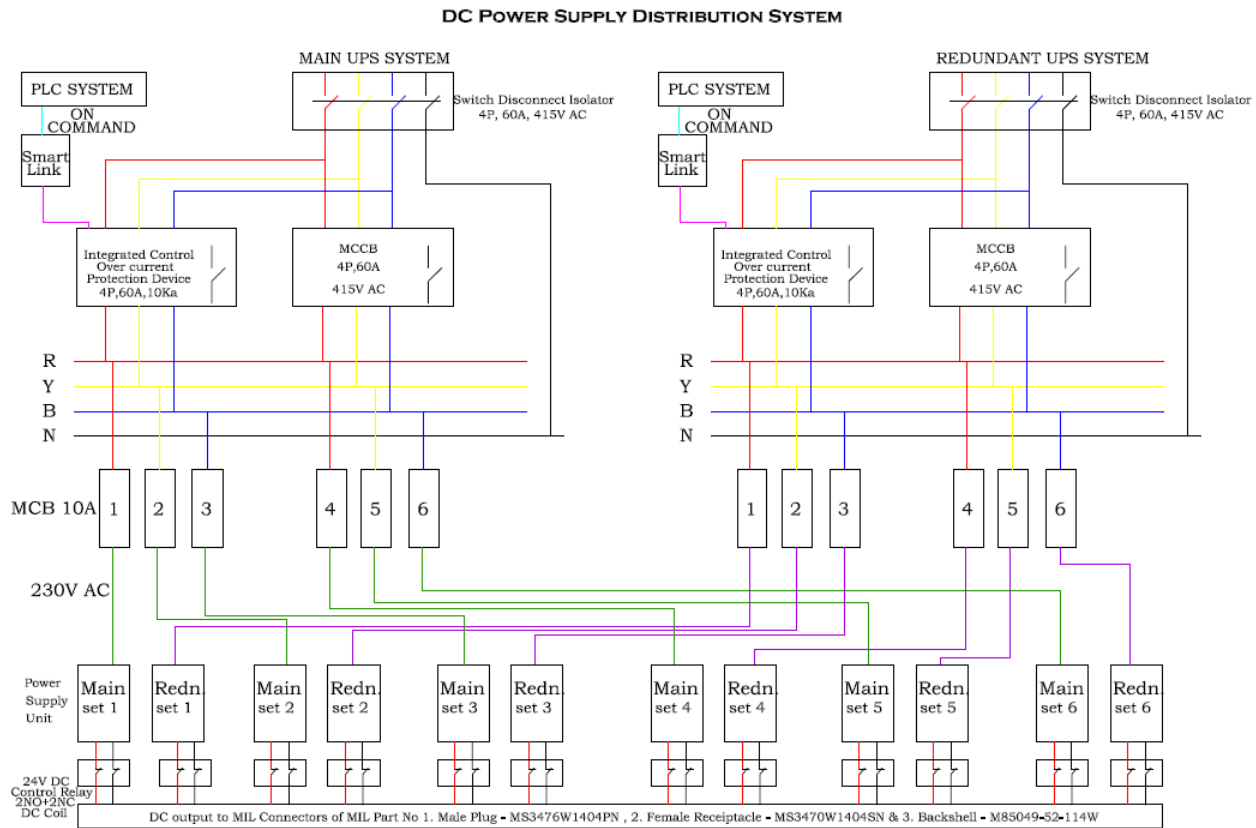
- a. Supply and installation of Regulated DC power supply units as per the attached specifications in Annexure-2
- b. Supply and wiring of MIL 26482G 4Pin Power connectors
- c. Supply of a Suitable industrial rack with proper design of lighting, ventilation with forced cooling arrangements and as per safety standards and installation of DC Power Supply units followed by internal wiring.
- d. AC & DC related Wiring of power supply units along with DCPS Status upto MIL connectors.
- e. Wiring of power supply status to remote controller through MIL connector.
- f. Supply & Wiring of DC Contactors
- g. Gland plates for incoming and outgoing power cable interfaces, punching details will be provided after PO placement
- h. End to end panel testing

8. Tentative bill of material: (tenderer scope):

Sl. No	Description of the item	Rack -1 & 2
1	10A DC Regulated power supply unit	19
2	20 A DC Regulated power supply unit	7
3	Supply of Wired Enclosure PDB Panel of approximate Size 2115 H X 1000w X 800 D. (Including 15mm AVP +100mm Base Frame) with proper cooling system with reputed make items.	2
5	4P power MIL connectors sets (DC output to MIL Connectors of MIL Part No 1. Male Plug - MS3476W1404PN, 2. Female Receptacle - MS3470W1404SN & 3. Back shell - M85049-52-114W)	30
	Switch Disconnect Isolator 4 Pole 415v AC, 60A	4
6	Suitable power rating MCCB 4 Pole, 415V AC, 60A	4
	4P, 60A,10Ka Integrated Control & Overcurrent Protection Device	4
7	24V DC standard coil Control relay 2 NO + 2 NC	30
8	MCB 10 A rating for extending AC power to DCPS	30
	MCB 6 A rating for internal fan & Lighting	As required
	Smart Link for IP Based With 24v DC excitation. Separate DC ored power supply output to be extended.	4
9	Suitable rating R, Y, B Power terminal Blocks, Wires, and wago TBs and other accessories, Panel Earth & Electronic Earth Busbar	1Lot

9. Free Issue Items: NIL

10. Configuration Schematic of DC Power Supply Distribution System:



11. Conditions for Quotation & Supply:

- Party has to submit the compliance for specifications, General conditions, GA drawings, Bill of material, wiring accessories and total scope of works
- Party shall submit make, model number along with datasheet and technical literature for the respective products like Power supply units, relays, contactors, IP based smart link devices, Oring modules etc. along with the offer. Without which, the offer will not be considered.
- Test Certificates shall be supplied along with the item
- Each power supply shall have nameplate covering model number, Unique Serial number, supply voltage, output, etc.
- Offered Power supply units shall be designed & Manufactured as per relevant IS Standards
- Party should quote for lump sum for the supply, internal wiring and factory testing of Power distribution racks and Splitting of the order is not possible and partial offers are liable for rejection
- After PO placement, Party has to submit the QAP and GA drawings and wiring drawing for department approval. After approval of make and model numbers of components and drawings, party has to initiate the integration and panel wiring.
- Tenderer shall clearly indicate the items, if any, excluded from his scope of work, failing which it will be deemed that the scope of work is in conformity with the requirements of the technical specifications.

- i. QAP shall be submitted for purchaser's approval within 15 days of PO placement and same will be approved by Department within 07 days
- j. Pre-delivery Inspection will be carried out at your factory as per approved QAP
- k. The insulating material, Terminal blocks, wires and cables used or interconnection shall be of adequate size inside of SMPS Power supply units. All the wiring should be properly identified with cross Ferrule
- l. Two sets of hard copy of as - Built drawings, Power supply test reports, Maintenance and troubleshooting documents & EMI/RFI compliance certificates shall be submitted along with supply of items
- m. The materials used and the workmanship in the panel shall be off good Quality
- n. The supplier shall provide warranty for 12 months from the date of receipt and acceptance of material at our stores. The items shall be unconditionally guaranteed for replacement against any manufacturing defects from the date of receipt of material at our stores
- o. Materials shall be from latest stock (from the year of PO release) and delivered within 24 weeks from date of receipt of Purchase order by the contractor

12. Mode of supply:

- a. The consignment delivery is at SDSC SHAR Sriharikota.
- b. We are interested to procure the item on firm price basis FOR Sriharikota for the total quantity supply.
- c. The material shall be supplied by the supplier to SDSC SHAR at his own cost and risk.

The Bidders shall submit the bids in two part. The department after opening the technical bid will evaluate and if required the department may ask for clarification. After technical evaluation, the price bid of technically suitable offers will be opened and contract will be finalized on technically suitable **overall lowest-priced bid**.

The execution period reckoned from receipt of purchase order to final completion of project and acceptance is 24 weeks.

SECTION-C
FORMATS TO BE FILLED BY THE SUPPLIER

CHECKLIST TO BE FILLED BY TENDERER

Sl No	Description	Supplier has to confirm his compliance.(Yes / No)
1	All the tender document, technical specifications mentioned and Section B shall be read and complied. The supplier shall specifically sign on each page of the specification and shall be uploaded. All the relevant technical datasheets to support the quoted specifications shall be uploaded.	*
2	The scope of supply is fully understood by the tenderer	*
3	Confirm all the technical specifications and supply terms & conditions are acceptable	*
4	Confirm the specification of items required to be supplied can be met by the tenderer	*
5	All the parts comprising an individual item shall be considered and shall be quoted in priced bid format enclosed	*
6	Cost shall be inclusive of transportation, taxes as applicable	*
7	Filled Exceptions and deviations if any are attached in format as mentioned in Annexure II by the tenderer	*
8	Filled acceptance of terms and conditions by the tenderer in format as mentioned in Annexure III attached	*
9	Filled bid evaluation criteria compliance statement by the tenderer in format as mentioned in Annexure IV attached	*

*To be filled by the bidder

Signature of Authorized Person with Seal

TO BE SUBMITTED ALONGWITH TECHNO-COMMERCIAL BID

Annexure -II

FILE REF NO : _____

NAME OF TENDERER : _____

EXCEPTIONS AND DEVIATIONS

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

S.No	Reference in Specification		Department Specification	Offered Specification	Deviation with detailed justification
	Page No.	Clause No.			

NOTE :

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

Signature of Authorized Person with Seal

TO BE SUBMITTED ALONGWITH TECHNO-COMMERCIAL BID

Annexure –III

ACCEPTANCE OF TERMS AND CONDITIONS BY THE VENDOR

We hereby agree to all the terms and conditions as given in Tender Notice No. _____ dated: _____ for Supply of DC Regulated power supply distribution system (as per the specifications and terms and conditions indicated in the RFP and tender) at SDSC SHAR, Sriharikota.

Company Seal

Signature of Authorized Person with Seal

Place : _____

Date : _____

BID EVALUATION CRITERIA COMPLIANCE STATEMENT

The broad guidelines for evaluation of Bids will be as follows:

S.No	Description	Bidder Compliance Acceptable / Not acceptable
1	In respect of Two-Bid system, the techno-commercial bids forwarded by the Bidders will be evaluated by the Department with reference to the technical specifications and commercial terms as mentioned in the RFP. The compliance of techno-commercial bids would be determined on the basis of the parameters specified in the RFP. The Price Bids of only those Bidders will be opened whose techno-commercial bids would clear the techno-commercial evaluation.	
2	During evaluation, SDSC SHAR may request Bidder for any clarification on the bid, additional documents. The department reserves the right to evaluate the tenderer in case of need or as per department's requirement. The tenderer shall co-operate for the vendor evaluation.	
3	Bidder must provide the point-by-point compliance to the technical specifications along with deviations. The tender can be rejected if the deviations are not acceptable to the Department.	
4	The bidders shall quote for all supply items and erection, commissioning, testing works and non-comprehensive maintenance works mentioned in the tender. Incomplete offer will be rejected.	
5	Performance of Bidder on similar nature of supply executed/ under execution shall be taken into consideration before selecting the Bidder for opening his price bid.	
6	The delivery period is given in the proposal document. Bidder is required to confirm the Delivery period unconditionally.	
7	SDSC SHAR reserves the right to reject any bid if technically/commercially not meeting the requirement/terms & conditions. Such decisions by the SDSC SHAR shall bear no liability whatsoever consequent upon such decision.	
8	Overall technically suitable lowest offer including transportation charges, taxes, duties as applicable will be taken for arriving at the lowest offer and awarding the purchase order/ contract as per the procedures.	
9	Confirmation from bidder for execution of full scope of work (including supply and erection , commissioning and testing works and non-comprehensive maintenance works)	
10	If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected. If there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.	

Signature of Authorized Person with Seal

BIDDER'S ELIGIBILITY CRITERIA COMPLIANCE STATEMENT

S.No	Description	Vendor Compliance with supporting documents as applicable
1.	The tenderer has to furnish the make, model no, manufacturing, assembly and testing facilities address etc. of quoted items along with techno-commercial bid.	
2.	The tenderer should have executed Supply of DC Regulated power supply distribution system in the last three years for a value not less than worth of ₹17.904 lakhs in a single order / at least two orders of worth ₹13.428 lakhs each / at least three orders of worth ₹8.952 lakhs each. Documentary evidence shall be provided along with the techno-commercial bid. (The relevant purchase orders and corresponding work completion certificates indicating the reference PO shall be provided. Non submission of the same shall lead to disqualification of the offer.)	
3.	The tenderer's average annual financial turnover shall be not less than ₹27.975 lakhs per year during last three Financial years ending with 31.03.2025. Certified documentary evidence with turnover details of last three Financial years shall be provided along with the techno-commercial bid.	
4.	The department reserves the right to evaluate the tenderer in case of need or as per department's requirement. The tenderer shall co-operate for the vendor evaluation.	
5.	The tenderer must provide a self-declaration that they have not been black listed by any Govt. Department/PSU.	

Signature of Authorized Person with Seal