TWO-BID Open e –TENDER

Hindustan Urvarak & Rasayan Limited, Sindri,(hereinafter referred as HURL or Owner or Client) invites electronic online bids (e Tender) through HURL web site www.hurl.net.in (for ref. only) and CPPP web site https://eprocure.gov.in/eprocure/app under Two Bid system (Part I :Techno commercial bid & Part II: Price Bid or BOQ) from bonafide and experienced bidders with sound technical and financial standing and capabilities & fulfilling the qualifying requirement for the tendered job as given in the NIT.

HURL, Sindri request bidders to quote in line with tender documents uploaded (refer attached Index) & submit the offer on our e-portal https://eprocure.gov.in/eprocure/app.

Upload of Tender: Tenderers are advised to download Notice Inviting Tender along with other tender documents and submit the declarations and tender documents along with clear scanned copies of requisite documents to substantiate the claim towards their credentials while the tender shall be submitted online in soft copy on our e-tendering portal.

All interested bidders have to submit Techno Commercial Bid (Part I) & Price Bid (BOQ) (Part II) strictly in the tender format available online on e-portal. No other form of bid shall be accepted and the tender shall be summarily rejected. **Bids shall be digitally signed and uploaded by someone legally authorized and competent on behalf of his firm / company i.e Bidder and relevant documents w.r.t. the same to be uploaded along with the bid by the bidders**. **The Power Of Attorney of such person needs to be furnished along with bid**.

Earnest Money Deposit has to be submitted as per NIT /Tender instructions before the due date and time of tender techno commercial bid opening, failing which the bid shall be liable for rejection.

For & on behalf of
HURL, Sindri

Manager, Contracts

`Sign & Stamp of Bidder

INSTRUCTION TO BIDDERS

1. Online bids are invited on two bid system for **"Supply & Installation of Application Server and Network Devices at HURL, Sindri project" Tender No.: HURL/Sindri/C&M/21-22/1071Dated 17-11-2021"**. Manual bids shall not be accepted.

2. Tender documents may be downloaded from HURL web site www.hurl.net.in (for reference only) and CPPP site https://eprocure.gov.in/eprocure/app as per the schedule as given in CRITICAL DATE as in Point no. 4 of NIT.

3. Type of Tender: Open Tender – Two bid

4. **Critical Date Sheet:**

Published Date	17.11.2021 (04:30PM)
Bid Document Download / Sale Start Date	17.11.2021 (04:30PM)
Bid Submission Start Date	17.11.2021 (04:30PM)
Bid Document Download / Sale End Date	08.12.2021 (04:30PM)
Bid Submission End Date	08.12.2021 (04:30PM)
Bid Opening Date	09.12.2021 (04:30PM)

5.0 Qualifying Requirements / Pre-Qualification Criteria (PQC)

E-tenders are invited from Original Equipment Manufacturer/Authorized dealer for supply and installation of Application Server and Network Devices at HURL Sindri Project. The technical details of required items are enclosed in "Scope of work" of tender document. The required items are classified based on their application in groups (Group 1, Group 2, Group 3) as mentioned in SOR. Bidder may quote for one group or two group or all the three group however the bidder is required to quote for all the items mentioned in their quoted group.

Following are the Qualifying Requirements / Pre-Qualification Criteria (PQC) for the subject package for technical evaluation:

5.1 The Bidder is required to submit Valid OEM authorization Certificate for below tabulated items against each classified group in SOR.

Classified Group Based on Application	**OEM Authorization Certificate required for below items in the respective group**
Group 1 - Application Server	(1) Application Server
Group 2 - Network Rack and Network cables and rack accessories	(1) 42U Server Rack
	(2) 6U Network Rack
Group 3- Network Switch, Network wireless Radio, Network media converter and cable	(1) 8 Port POE Network Switch
	(2) 48 Port POE Network Switch Distribution Switch
	(3) 24 Port POE Network Switch
	(4) Point to Point wireless Radio 5Ghz

The bidder shall submit valid OEM authorization certificate for their quoted product make/model in Technical bid Annexure -A(I). OEM Authorization certificate must be valid from date of submission of bid to till 31-03-2022. In case, the bidder is manufacturer, they shall submit copy of valid manufacturer's license along with technical bid.

5.2 The Bidder must have experience of successfully completed and supply of similar works* in Government Sector or any large reputed Private Sector Enterprises during last three (03) years ending last day of month previous to the one in which bids are invited i.e. 30-10-2021 and shall meet either of followings work order criteria (Value excluding GST):

(i) One similar nature of completed work with executed value (exclusive of GST) not less than the amount equal to ₹ 23.2 lakhs

or

(ii) Two similar nature of completed works each with executed value (exclusive of GST) not less than the amount equal to ₹ 14.5 lakh for each work order

or

(iii) Three completed works each with executed value (exclusive of GST) not less than the amount equal to ₹ 11.6 lakhs for each work order

Similar nature of works means: The bidder must have successfully completed "Supply, Installation and commissioning of Servers and Network devices like a system integrator" in large process industry of private sector/PSU/Govt sector of state or central. **Note** – Work experiences related to project consultancy services shall not be considered as similar work

Note 1- For above, job executed by bidder for its own plant / project cannot be considered as experience for the purpose of technical criteria evaluation. However, jobs executed for Subsidiary / Fellow subsidiary / Holding company will be considered as experience for the purpose of technical criteria evaluation subject to submission of tax paid invoice (s) duly

certified by Statutory Auditor of the Bidder towards payments of statutory tax in support of the job executed for Subsidiary / Fellow subsidiary / Holding company.

Note 2 - In case of bidder is submitting the work order/contracts of minimum value as mentioned in above table citing working experience in multiple/various services, then only the work experience of such services falling under the broadly classified category defined in similar works would be considered for the purpose of meeting evaluation criteria.

Note 3 - In case of running contracts, if the contract value executed till last day of the month previous to the one on which NIT is invited i.e. 31-10-2021 is equal to or more than minimum prescribed value as mentioned above, such experience will also be taken into consideration provided that the bidder has submitted satisfactory work execution certificate to this effect issued by end user/owner.

As a documentary proof, the bidder shall submit signed and stamped copies of the following documents in technical bid-

5.2.1 Copy of Work Orders performed in last 7 years with full technical details including detailed Scope of the Work, **BOQ,** Contract value and Completion Period.

5.2.2 Completion/Acceptance Certificate from End User/OWNER regarding satisfactory completion indicating the period of completion. The Completion / Acceptance Certificate shall clearly indicate LOI / Work Order no., Name of Work, Executed work value, Service Tax/GST, Contract period and actual Date of Completion. Completion certificate for works issued by a private organization shall be supported by **Form 26AS / TDS certificates.**

5.2.2.1 Wherever executed value is not mentioned in the completion certificate, the copy of certified bills with service tax/GST details as applicable / Separate certificate from respective client (WO issuing company /Engineer In Charge) regarding executed value with service tax/GST details, date of completion etc., shall also be accepted towards fulfillment of Pre-Qualification criteria (PQC) 5.1, if same is submitted along with completion certificate.

5.2.2.2 Completion certificate submitted by the bidders shall have clarity with respect to whether service tax/GST is included/excluded in the executed value of the completed job, towards fulfillment of PQC 5.1 and same shall be ensured by the bidders by submitting proper and relevant documents as required (e.g. separate certificate from respective client regarding service tax/GST) along with completion certificate.

5.2.2.3 If no clear documents as mentioned above regarding service tax/GST component included/extra/not applicable with respect to the executed value of the job mentioned in completion certificate is submitted by the bidder & In case Service tax/GST amount / component is also not specified in the submitted completion certificate, then the amount equivalent to rate of applicable service tax/GST as considered by HURL for the subject

tender shall be deducted from the value of completed job mentioned in the completion certificate to arrive at the value of the completed job without service tax/GST.

5.2.2.4 Similar ARC (Annual Rate Contract) Jobs that has been successfully completed by the bidder for the originally awarded period shall be considered as completed works even though such ARC is under execution on account of extension. However original term completion should be within the period as indicated in above PQC. Bidder to submit the relevant document along with bid certifying satisfactory completion of the job, executed value of the job and completion date for original period of contract, along with letter of extension of contract, certified by WO issuing company /Engineer In Charge.

5.2.2.5 In case of sub contract orders, credential as sub-contractor for above PQC shall be considered only when such work orders for sub contract has been issued with approval or written permission of end user/owner/consultant of the owner of the contract from the scope of work of which contractor under the contract has sub contracted a part of or entire work under such work order. In this regard, the bidder has to submit a certificate from the end user/owner/consultant of the owner stating that the main contractor has intimated them about the engagement of sub-contracting OR have been allowed/ permitted as a sub-contractor. Based on such Sub contracted portion of the job actually executed by the bidder as subcontractor, PQC evaluation shall be done i.e. In case only part job is subcontracted, similar job & executed value etc for the part job only shall be considered for PQC and not the full job.

5.2.2.6 Similar work experience documents submitted in technical bid shall only be considered for technical bid evaluation. Any shortfall document related to submitted similar work experience in technical bid, if asked by HURL (As per clause 4.12, page -14 of tender document) and submitted by the bidder as per given timeline shall be considered as part of technical bid.

Note- Any other/new work experience submitted by the bidder through mail / hard copy submission / by post / added through shortfall document submission shall not be considered for Technical bid evaluation.

5.3 Average Annual financial turnover during last three (03) financial years of the bidder should be at least INR 8.70 lakhs. For evaluation of same, Bidder shall submit followings,

- Audited Annual Statements (Balance Sheet and Profit & Loss account) of the company for last three (3) financial years i.e. 2018-19, 2019-20 and 2020-21. Audited annual statement shall be certified by CA with membership number.

Or,

- Certificate issued by Chartered Accountants or statutory auditors of the bidding entity certifying the Annual Turnover for the Three preceding financial years i.e., 2018-19, 2019-20 & 2020-21

Note 1- If audited financial results of the immediate preceding financial year is not available, the bidder has an option to submit the audited financial results of the three (03) financial years immediately prior to that financial year. The same will be considered for evaluation of average financial turnover. Audited annual statement shall be certified by CA with membership number.

Note 2- Other income shall not be considered for arriving at annual turnover.

5.4 The bidder shall have valid company registration, PAN card issued by Income Tax department and Valid GSTIN registration. As a documentary proof of same, the bidder shall submit signed, stamped and scanned copy of Certificates like valid GSTIN Registration certificate (GSTIN status shall be shown as active on GST portal.) and PAN card issued by Income Tax Department.

The bidder shall submit following details also in technical bid as applicable,

i) **For Proprietorship firm** - Name of the proprietor to be mentioned. The bidder shall submit copy of Affidavit of proprietorship in original duly notarized (Latest).

ii) **For partnership firms** – The bidder shall submit copy of Affidavit in originals duly notarized, confirming the current status of the firm along with names of the partners or Copy of partnership deed duly notarized (latest) to be submitted

iii) **For limited companies**– The bidder shall submit copy of notarized copy of Memorandum and Articles of Association and list of directors.

6.0 **Evaluation of Bids:**

6.1 Bids shall be scrutinized in terms of the provisions of the bidding documents. Full compliance to the complete provisions of the Bidding Documents and its subsequent Amendment(s) / Clarification(s) / Addenda / Errata if any, issued by the HURL shall be checked. Failure to comply with this requirement, the bid shall be rejected**.**

6.2 Exemption from submission of EMD : Micro and Small Enterprises (MSEs) bidders are exempted from submission of EMD as per provisions at clause 14.0 of Instruction to Bidders mentioned in page no. 9 of tender document.

6.3 Technical and commercial bids shall be evaluated only for those bidders, whose EMD is found to be in order as per NIT requirement. EMD submitted by bidder will be reviewed against its value, validity and issuing bank as per NIT requirement. If the EMD is not found in order with respect to NIT requirement, the bids may be rejected.

6.4 The PRICE BID shall be opened only of those bidders whose bids are found to be technically and commercially substantially responsive.

6.5 A substantially responsive Bid is one which conforms to all the terms, conditions and specifications of the Bidding Documents without material deviations or reservations or omissions for this purpose Owner defines the foregoing terms below:-

(a) "Deviation" is departure from the requirement specified in the tender documents.
(b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirement in the tender documents.
(c) "Omission" is the failure to submit part or all of the information or documentation required in the tender document.

6.6 Bidder may quote for items of one group or any two groups or all three groups. The financial comparison for selection of Lowest (L-1) Bidder / Contractor shall be done based on the derived price of group wise L-1. The aggregate of quoted amount for each items of BOQ (Items as mentioned in SOR) for each group will be worked out as derived price of group wise L-1, shall be considered for evaluation and award. HURL reserves the right to award each group to different agencies or all the group items to one agency on least cost combination based on qualification criteria mentioned in the tender document. In other words, each group can be awarded to different bidders based on least cost implication to HURL.

6.7 The Owner will award the Contract to the successful L1 Bidder whose Technical and Commercial bid has been determined to be substantially responsive and Price Bid to be the lowest evaluated Bid.

6.8 In case tie between two or more bidders at L-1 position, the sole criterion for determining the L1 bidder among them shall be on the basis of evaluated Average Annual financial Turn Over of last three (03) financial years as per Pre-Qualification criteria (PQC) 5.3 of tender document. Bidder having the highest average annual financial turnover as per evaluation of Pre-Qualification criteria (PQC) 5.3 will be considered as L1 bidder.

6.9 In case of Abnormally Low Bid the Bidder may be asked for written clarifications, including detailed price analyses of its bid price in relation to scope, schedule, allocation of risks and responsibilities, and any other requirements of the bid documents. If, after evaluating the price analysis, the Owner determines that the bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, the Procuring Entity may reject the bid/ proposal.

6.10 The unit price of each group item mentioned in BOQ1, BOQ2, BOQ3 shall be derived after multiplying a factor (Bidder quote factor calculated as per below calculation) with estimated amount of unit rate for each group indicated in BOQ1, BOQ2,BOQ3,

Bidder quote factor = 1 +/- (Quoted rate in Percentage / 100)

"+" to be considered If bidder quotes Excess(+).
"-" to be considered if bidder quotes Less(-).

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For Example- If bidder quotes Excess (+) 10% then bidder quote factor will be 1.1. Similarly, If bidder quotes Less (-) 10% then bidder quote factor will be 0.9.

7.0 **Bid Submission:**

Bids shall be submitted online only at CPPP website: https://eprocure.gov.in/eprocure/app. Tenderer/Contractor is advised to follow the instructions provided for online submission of bids. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. Any bid document submitted through mail or Hard copy submission shall not be considered in bid evaluation.

8.0 Not more than one tender shall be submitted by one contactor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

9.0 Tenderer who has downloaded the tender from the HURL website www.hurl.net.in and Central Public Procurement Portal (CPPP) website https://eprocure.gov.in/eprocure/app, https://eprocure.gov.in/epublish/app shall not tamper/modify the tender form including downloaded price bid template in any manner. In case the same is found to be tampered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with HURL.

10.0 Intending tenderers are advised to visit again HURL web site www.hurl.net.in and CPPP website https://eprocure.gov.in/eprocure/app regularly till closing date of submission of tender for any corrigendum / addendum/ amendment.

11.0 EMD Payment: Earnest Money Deposit is to be deposited **electronically by ECS/ RTGS/NEFT** in the account of "**Hindustan Urvarak and Rasayan Limited, payable at Delhi**" at the below mentioned details. Bidders are required to submit the details of EMD payment at the time of Bid Preparation.

BANK Details for EMD Payment through ECS/NEFT/RTGS:
Bank Name – State Bank of India
IFS CODE: SBIN0004803**, Account No: 38387231141**.

12.0 **EMD value:** Below are value of Earnest Money Deposit.

S.N.	BOQ Items	EMD Value
1	Group 1-Application Server	Rs. 17,195.00 (Rupees Five Thousand One Hundred Ninety Five only)
2	Group 2- Network Rack and Network cables and rack accessories	Rs. 7,232.00 (Rupees Five Thousand Five Hundred Twenty Three only)

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3	Group 3- Network Switch, Network wireless Radio , Network media converter and cable	Rs. 33,450.00 (Rupees Thirty Three Thousand Four Hundred Fifty only)

If the bidder is bidding for more than one group then they have to submit EMD amount equal to sum of EMD value as mentioned in above table for quoted group.

For Example-
Case 1- If the bidder is quoting for more than one Group , then the bidder is required to deposit EMD amount of –
Rs. 24,427.00 (Rs. 17,195.00 for Group 1 & Rs. 7,232.00 for Group 2)
Rs. 40,682.00 (Rs. 7,232.00 for Group 2 & Rs. 33,450.00 for Group 3)
Rs. 50,645.00 (Rs. 17,195.00 for Group 1 & Rs. Rs. 33,450.00 for Group 3)

Case 2 - If the bidder is quoting for all three group items then bidder is required to deposit EMD amount of Rs. 57,877.00 (Rs. 17,195.00 + Rs. 7,232.00 + Rs. 33,450.00).

13.0 Price Bid Validity date 120 days from the date of opening of Techno-Commercial bids.

14.0 Micro and Small Enterprises (MSEs) shall be exempted from paying Earnest Money Deposit.

MSEs seeking exemption and benefits should enclose/upload in e-tender portal an attested/self-certified copy of following registration certificate as a part of his bid, failing which they run the risk of their bid being passed over as ineligible for the benefits applicable to MSEs.

i) Ministry of MSME vide Gazette notification no. CG-DL-E-26062020-220191 dated 26.06.2020 had notified certain criteria for classifying the enterprises as Micro, Small and Medium Enterprises and specified, form and procedure for filing the memorandum (Udyam Registration) w.e.f. 01.07.2020 (for complete details of policy refer website of Ministry of MSME i.e. https://msme.gov.in/) Accordingly, Micro and Small Enterprises (MSEs) shall be required to submit Udyam Registration Certificate for availing benefit under Public Procurement Policy for MSEs- 2012

ii) An enterprise registered prior to 30.06.2020 and who is not re-registered with Udyam Registration, shall continue to be valid for a period up to 31.12.2021. Such enterprise shall submit EM Part-II or Udyog Aadhaar Memorandum (UAM) for availing benefits of PPP-2012.

15.0 Bids will be opened as per date/time as mentioned in the Tender Critical Date Sheet. After online opening of Technical-Bid, the results of their qualification as well as the date of Price-Bid opening will be intimated later.

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16.0 **LOCAL CONDITIONS :**

16.1 It will be imperative on each Bidder to fully make aware himself of all local conditions and factors which may have any effect on the execution of the works covered under these specifications and documents. Bidder shall inspect the site, examine and obtain at its cost and responsibility, all information required and satisfy himself regarding all matters and things such as access to site, communications, transport, right of way, the type and number of equipment and facilities required for the work, availability of local labor, materials and their rates, local working conditions, weather, flood levels, sub-soil conditions, natural drainage, and all information that may be necessary for preparing its Bid, performance of work and other obligations and related matters. By submitting the Bid the Bidder shall be deemed to have acknowledged and agreed that ignorance of the site and other said conditions shall not be basis for any claim for compensation or extension of time or loss of profits etc. and the OWNER shall not be liable on account thereof in any manner whatsoever to the Bidder or any person claiming through or under the Bidder.

16.2 Bidders must before submission of their Bids, acquaint themselves with all applicable regulatory and other legal requirements pertaining to insurance and health, safety and environment requirement at Sindri, Dhanbad, Jharkhand and rules related to work permit and visa requirements Sindri, Dhanbad, Jharkhand or in any way or manner affecting the performance of Scope of Work, the Contractor and the Plant operation and performance including social security, safety, pollution control, permits, licenses, and other statutory requirements and regulations. The submission of a Bid by the Bidder will be construed as evidence that such an examination was made and the Bidder shall not raise at any time later any claims/disputes against the OWNER and the OWNER shall not be liable for the same in any manner whatsoever.

17.0 Bidders are required to carefully go through the entire tender document including scope of work, GCC , Special Terms & Conditions and SOR before quote. Bidders should contact HURL in case of any query in tender document before bid submission. Once the bid submitted, HURL will assume that the bidder has understood all the aspects of tender document works and submitted bid accordingly.

18.0 Guideline for submission of bid :

18.1 **Technical Bid:**

The following documents are to be furnished by the Supplier as part of Technical Bid:

(i) Power of Attorney as per requirement mentioned in NIT. Bids shall be digitally signed and uploaded by someone legally authorized and competent on behalf of his

firm / company i.e. Bidder and relevant documents w.r.t. the same to be uploaded. The Power of Attorney of such person needs to be furnished along with bid.

(ii) Signed, Stamped and Scanned copy of proof for payment of Earnest Money Deposit (EMD). MSE bidders are exempted from submission of EMD as per provisions in the Tender Documents. MSE bidders seeking benefits of MSE as specified in the Tender Documents, must submit Attested/Self attested copy of Registration certificates (as mentioned in clause 14.0 of ITB) failing which no benefit of MSE shall be extended.

(iii) Relevant Documents as required in accordance with Clause 5.1 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document .

(iv) Furnishing Similar work order Documents as required in accordance with Clause 5.2 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document .

(v) Audited Annual Statements (Balance Sheet and Profit & Loss account statements) in accordance with Clause 5.3 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document.

(vi) Signed, Stamped and Scanned copy of Company Registration certificate, GSTIN Registration, PAN Card and other documents in accordance with Clause 5.4 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document

(vii) Signed, Stamped and Scanned copy of last three financial year ITR.

(viii) Signed and stamped copy of each page of tender documents as a token of acceptance indicating read, understood and accepted the Terms & Conditions mentioned in tender documents.

(ix) Signed and stamped copy with completely filled Annexure-A(I) , A(II), A(III) shall be submitted along with technical bid. Technical department will review make/model and quoted specifications as per given criteria mentioned in scope of supply in Terms & condition). Technical department may reject the bid if make/model and specifications is not found as per said criteria.

(x) Signed, Stamped and Scanned copy of affidavit on company letter head as specified in Annexure B of tender document.

(xi) Signed, Stamped and Scanned copy of Tender Acceptance Letter as per Annexure-C & Letter of authorization to submit bid.

(xii) Signed, Stamped and Scanned copy of No deviation Certificate as per Annexure-D.

(xiii) Signed, Stamped and Scanned copy of Certificate from CEO or Managing Director, in the format as enclosed as Annexure-E of Tender Document.

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(xiv) Signed, Stamped & Scanned copy of format For Electronics Payment as per Annexure-F.

(xv) MSEs seeking exemption and benefits should enclose an attested/self-certified and stamped copy of valid registration certificate, giving details such as validity, stores/services etc. failing which they run the risk of their bid being passed over as ineligible for the benefits applicable to MSEs.

(xvi) Any other document asked for in the Bidding Documents.

Note: Bidders are requested to upload the clearly visible documents only, otherwise if not clearly visible than offer shall be liable for rejection without any further communication.

18.2 Price Bid:

18.2.1 Schedule of price bid in the form of BOQ_XXXX .xls
The below mentioned Financial Proposal/Commercial bid format is provided as BOQ_XXXX.xls along with this tender document at https://eprocure.gov.in/eprocure/app. Bidders are advised to upload the same in the commercial bid. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tampered / modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with HURL.

18.2.2 Prices must be filled in format for "Price Bid" enclosed as part of Tender document. If quoted in technical bid/separate typed sheets and any variation in item description, unit or quantity is noticed; the Bid is liable to be rejected.

18.2.3 All duties, taxes and other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (CGST & SGST/ UTGST or IGST) shall be included in the rates / prices and the total bid-price submitted by the Bidder.

18.2.4 Bidder shall quote for all the items of "SOR" after careful analysis of cost involved for the performance of the complete items considering all parts of the Bidding Document. In case any activity though specifically not covered in description of item under "SOR" but is required to complete the works as per Specifications, Scope of Work/ Service, Standards, General Conditions of Contract ("GCC"), Special terms & Conditions of Contract or any other part of Bidding Document, the prices quoted shall deemed to be inclusive of cost incurred for such activity.

18.2.5 Prices quoted by the Bidder, shall remain firm and fixed and valid until completion of the Contract and will not be subject to variation on any account. Any new taxes & Duties, if imposed by the State/ Govt. of India after due date of bid submission but before the Contractual Delivery Date, shall be reimbursed to

the contractor on submission of documentary evidence for proof of payment to State/ Govt. Authorities and after ascertaining it's applicability with respect to the contract.

If any new taxes and/or duties are imposed beyond Completion/ Contract period for reasons not due to Owner's default, such taxes and duties shall be to Contractor's account.

If any new taxes and/or duties are imposed beyond Completion / Contract period for reasons due to Owner's default, such taxes and duties shall be to Owner's account.

18.2.6 The quoted rate/amount shall be inclusive of all taxes and duties etc. as per tender but exclusive of the GST. Bidder must quote their rates exclusive of GST. The GST shall be paid extra as per applicable rates.

18.3 <u>Checklist of documents to be submitted/confirmed as per NIT Terms & conditions</u>:

S.No	Item	Yes / No	Bid Ref.
I	Power of Attorney as per requirement mentioned in NIT. Bids shall be digitally signed and uploaded by someone legally authorized and competent on behalf of his firm / company i.e. Bidder and relevant documents w.r.t. the same to be uploaded. The Power of Attorney of such person needs to be furnished along with bid.		
II	Signed, Stamped and Scanned copy of proof for payment of Earnest Money Deposit (EMD) / MSE Certificate for exemption.		
III	Furnishing of Documents as required in accordance with Clause 5.1, of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document		
IV	Furnishing Similar work order experience Documents as required in accordance with Clause 5.2 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document .		
V	Audited Annual Statements (Balance Sheet and Profit & Loss account statements) in accordance with Clause 5.3 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document		
VII	Signed, Stamped and Scanned copy of Company Registration certificate, GSTIN Registration, PAN Card and other documents in accordance with		

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	Clause 5.4 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document		
VIII	Signed, Stamped and Scanned copy of last three financial year ITR		
IX	Signed and stamped copy of each page of tender documents as a token of acceptance indicating read, understood and accepted the Terms & Conditions mentioned in tender documents.		
X	Signed and stamped copy with completely filled Annexure-A(I), A(II) and A(III) shall be submitted along with technical bid.		
XI	Signed, Stamped and Scanned copy of affidavit on company letter head as specified in Annexure B of tender document.		
XII	Signed, Stamped and Scanned copy of Tender Acceptance Letter as per Annexure-C & Letter of authorization to submit bid.		
XIII	Signed, Stamped and Scanned copy of No deviation Certificate as per Annexure-D		
XIV	Signed, Stamped and Scanned copy of Certificate from CEO or Managing Director, in the format as enclosed as Annexure- E of Tender Document.		
XV	Signed, Stamped & Scanned copy of format For Electronics Payment as per Annexure-F		
XVI	MSEs seeking exemption and benefits should enclose an attested/self-certified and stamped copy of valid registration certificate, giving details such as validity, stores/services etc. failing which they run the risk of their bid being passed over as ineligible for the benefits applicable to MSMEs.		
XVII	Any other document asked for in the Bidding Documents.		

Note: Failure to Upload Authentic and Corrects Documents as mentioned at S.No I to XVII of clause 18.3 (Checklist) above would lead to Rejection of Techno- Commercial Bid. Price Bids shall be opened only of those bidders who are qualified and whose techno-commercial bids are acceptable.

19.0 HURL reserves the right to reject any or all the bids without assigning any reason whatsoever and does not bind itself to accept the lowest or any other bid. The bids

which are incomplete in any respect are liable to be rejected. HURL is at liberty to take any of the following actions in case of this NIT:

a) To cancel the tender without reference to the bidders.
b) To postpone the due date and time.

20.0 Bidders shall not be entitled to claim any costs, charges, expenses or incidentals for or in connection with the preparation and submission of their bids even though HURL may withdraw the enquiry/tender or reject all bids.

21.0 **SITE VISIT: If needed,** the bidder and his authorized personnel will be granted permission by General manager (Project), HURL Sindri Project to enter upon HURL Sindri project premises and may visit the site before quoting their rates.

22.0 HURL reserves the rights to assess bidder's capability and capacity to perform the contract.

23.0 To know more about HURL, please visit our website www.hurl.net.in

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Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: https://eprocure.gov.in/eprocure/app.

1.0 REGISTRATION

1.1 Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.

1.2 As part of the enrollment process, the bidders will be required to choose a unique username and assign a password for their accounts.

1.3 Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.

1.4 Upon enrollment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.

1.5 Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.

1.6 Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.

2.0 SEARCHING FOR TENDER DOCUMENTS

2.1 There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.

2.2 Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the tender document.

2.3 The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

3.0 PREPARATION OF BIDS

3.1 Bidder should take into account any corrigendum published on the tender document before submitting their bids.

3.2 Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

3.3 Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

3.4 To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or ''Other Important Documents'' area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

4.0 SUBMISSION OF BIDS:

4.1 Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

4.2 The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

4.3 Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.

4.4 Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

4.5 Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

4.6 The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

4.7 All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology.

4.8 Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

4.9 The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

4.10 Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a

bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

4.11 The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

4.12 Shortfall documents: After evaluation of the uploaded documents, shortfall documents, if required, shall be sought from the bidder. For this purpose, maximum 1 chance, of 7x24 hours duration shall be given. If the techno-commercial acceptability of bidder is established upon verification of uploaded documents and shortfall documents if any, the case shall be considered for further processing. If the bidder happens to be defaulter upon verification of the documents or has not uploaded the required document within the mentioned time frame his bid would be analyzed based on the uploaded documents and if found not in order as per requirement, would be outrightly rejected.

5.0 <u>ASSISTANCE TO BIDDERS</u>

5.1 Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

5.2 Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be call directed to the 24x7 CPP Portal Helpdesk.

0120-4001 062
0120-4001 002
0120-4001 005
0120-6277 787
E-mail support:

For any Issues or Clarifications relating to the published tenders, bidders are requested to contact the respective Tender Inviting Authority

Technical - support-eproc(at)nic(dot)in

Policy Related - cppp-doe(at)nic(dot)in

Or

Mr. Deepak Kumar, Manager (C&M) / Miss. Moupiya Mallick, Officer (Purchase)
HURL- Sindri Project,

Email id : deepakkumar@hurl.net.in / moupiyamallick@hurl.net.in

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GENERAL CONDITIONS OF CONTRACT (GCC)

1. Scope of Contract

The Scope of Contract shall be as per 'Technical Specification' as mentioned in tender document and scope of work.

2. Firm Price

Price to be quoted shall be firm and subject to no escalation whatsoever during the contractual completion period including extended period, if any, except for any statutory variations i.e. change in the rate of taxes & duty and/or inclusion of any new tax & duty. Bid with variable price will not be accepted.

3. Price Basis

Duly executed at following location:
Old FCIL Office Complex, HURL, Sindri (Jharkhand)

4. Taxes and duties

4.1 The Bidder shall include all the taxes, duties/ levies etc. (except GST) in their quoted rates/ prices for all items of SOR. GST charges shall be paid extra at actual by the owner as applicable.

4.2 Please note that the responsibility of timely payment of above taxes to statutory authorities thereupon lies with the Contractor / Service Provider only.

4.3 Statutory variation in taxes and duties including imposition of any new tax & duty, within the scheduled Completion period, as per Contract/PO, shall be paid at actual on submission of documentary evidence.

4.3.1 In case of delay in execution, if there is any increase in the rate of tax & duty and/or there is imposition of any new tax/ duty by statutory authorities, HURL shall restrict the payment of taxes & duties, as prevalent on the scheduled delivery/ completion period only, as mentioned in the P.O and amendment(s) there to.

4.3.2 If there is any decrease in applicable rate of taxes & duties &/or there is any withdrawal of any tax & duty by statutory authorities, during the completion period including extended/ amended period of P.O, shall accrue to HURL's a/c.

4.4 The Contractor has to submit / furnish all necessary documents / information to enable HURL claim the input credit benefit, if any, under GST rules.

5. Effective date of Contract/ P.O: Shall be the date of issuance of LOA/Purchase Order (PO).

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6. Completion Period/ Time Schedule

Sl.No.	Particulars	Time Schedule/ Contract Period
1.	Supply & Installation of Application Server and Network Devices	30 Days from date of PO

7. Payment Terms

7.1 The payment shall be made for the actual job/Supply executed by the Agency after due verification and certification by the concerned Engineer-in-charge of the HURL, Sindri Project.

7.2 90% Payment of the order value will be made within 30(thirty) days from the successful delivery, installation and commissioning at our site of said items to the satisfaction of Engineer in charge after adjustment of all necessary tax and the balance payment of 10% will be kept as security deposit and will be released along with final bill after completion of 6 months.

The Agency shall submit bills in triplicate to the concerned Engineer in-charge of the HURL, Sindri Project. All payments shall be made in Indian currency by means of Electronic Clearance Service (ECS) or Cheque only

7.3 In-come Tax as applicable as per IT Rules shall be recovered at source and other taxes as applicable will be deducted from the Running/final bill.

7.4 The agency shall pay applicable GST and claim it along with Bills.

7.5 No payment shall be made in advance nor any loan from any bank or financial institution recommended on the basis of the order of award of work**.**

7.6 In case, the successful bidder fails to comply with any statutory/taxation liability under appropriate law, and as a result there of HURL is put to any loss / obligation, monitory or otherwise, HURL will be entitled to get itself reimbursed out of the outstanding bills or the Performance Security Deposit of the bidder, to the extent of the loss or obligation in monitory terms.

8. EARNEST MONEY DEPOSIT (EMD)

8.1 EMD of successful bidder will be converted to Security Deposit after award of contract. Successful Bidders who are exempted from submission of EMD on account of MSE, shall have to deposit security deposit equivalent to EMD amount

as mentioned in Clause 12, Instruction to bidder of tender document (Tender document page no-6) before award of contract/Purchase Order.

8.2 The earnest money shall be forfeited if the Bidder withdraws/ amends, impairs and derogates from the tender.

8.3 EMD shall be refunded to all the unsuccessful Bidder after acceptance of work order by the successful Bidders. No interest shall be payable on submitted EMD amount. EMD of the bidders whose price are not considered to be opened, shall be released/refunded at the earliest but only after the award of the subject work to the successful bidder.

The contractor will have to apply in writing for refund of security deposit along with one cancelled cheque. EMD shall be refunded to all the unsuccessful Bidder at the earliest but not later than thirty days beyond the award of the subject work and receipt of EMD return letter from the bidder.

8.4 The Earnest money will be forfeited in the following conditions:

(a) If at any stage, any of the information/ declaration given by the bidder is found to be false.

(b) If a bidder withdraws his bid during the period of bid validity period specified in the terms and conditions of tender.

(c) In case of any selection of bidder, if he fails to enter in to the contract or fails to furnish his responsibilities as mentioned in the above referred clauses of the tender document.

8.5 EMD of successful bidder shall be converted into security deposit. The same will be additional to security deposit amount as mentioned in clause 9.0 and no interest shall be payable thereon.

8.6 Exemption from submission of EMD :

Micro and Small Enterprises (MSEs) bidders are exempted from submission of EMD as per provisions at clause 14.0 of Instruction to Bidders mentioned in page no. and 7 of tender document.

8.7 Price Bids shall be opened only of those bidder(s) whose EMD shall be found as per the requirement of the bidding documents.

9.0 SECURITY DEPOSIT:

- EMD of successful bidder will be converted to Security Deposit as per clause 8.1, page no. 20 of tender document.

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- Further, Security deposit at the rate of 10.00 % shall be recovered from the bill. The security deposit shall be kept as performance guarantee and shall not bear any interest. It will be refunded to the Agency after the satisfactory completion of contract period however, the contractor will have to apply in writing, along with original cash receipt for refund of security deposit
- The HURL reserves the right to forfeit the security deposit if the Agency fails or neglects to take up the job, abide by to fulfil the terms and conditions of the contract and/or to execute the work satisfactorily

9.0 Quantity variation

Quantities indicated in the schedule of rate are tentative only and all the items may or may not be executed either partially or fully. However, the upper ceiling of total quantum of variation of work shall be limited to 10 % of the original contract value**.** Actual execution value of the contract may vary depending on the actual requirement and therefore there shall not be any compensation for non-execution of any item or multiple items either partially or fully. This clause shall supersede any other clause given anywhere in the tender documents

10.0 Insurance

10.1 Necessary insurance(s) to cover accident risk for his employee's loss of life, material etc. to crew or the third party to be arranged by Contractor at his cost.

10.2 All contractors' equipment shall be at the sole risk of the contractor.

10.3 The contractor will insure all his personnel employed for the execution of the work against any personal injury that may be sustained as a result of the execution of the work. The contractor will present satisfactory evidence to the owner/consultant that such insurance is in force.

10.4 The contractor shall be responsible for workman's compensation insurance and all other statutory requirements in regard to the personnel in the contractor's employment.

11.0 Termination

In the event of unsatisfactory performance, HURL Sindri reserves right to cancel part or whole of the order / contract and make alternate arrangement at any time during contract period on risk & costs of contractor and / or forfeit security deposit

12.0 Force Majeure

The act of God, epidemic, wars, revolution, and official strike shall be treated as force majeure condition. In event of occurrence of such condition neither party shall be

responsible for delay in performance provided that it is notified within 07 days of its occurrence. The Contractor shall provide justification by documentation countersigned by the local chamber of commerce.

13.0 SETTLEMENT OF DISPUTE:

13.1 Amicable efforts should be made to settle the claim, if any by direct negotiation with the concerned Engineer-in-charge of HURL, Sindri Project. In case the same is not settled, all disputes and differences whatsoever arising between the parties out of or relating to the meaning and operation of effect of this contract or the breach thereof shall be referred to the GM-Projects / Incharge of the HURL, Sindri Project for arbitration and the award made in pursuance thereof shall be binding on the parties.

13.2 Subject to as aforesaid the provision of Arbitration & Conciliation Act, 1996 or any statutory modification or re-enactment or rules made there under shall apply to the Arbitration proceeding under this clause.

13.3 No objection shall be made to the appointment of the above arbitration on the ground of any of them being an officer of the HURL and/or had at any time dealt the matter in dispute or difference and/or expressed any views thereon.

14.0 G<u>overning laws:-</u> This Contract shall be governed by the Indian Laws for the time being in force and the Dhanbad Courts alone shall have the exclusive jurisdiction on all matters arising under the contract.

15.0 <u>INTERPRETATION OF CONTRACT</u>

15.1 The several contract documents forming the contracts are to be read together as a whole and are to be taken as mutually explanatory.

15.2 Should there be any doubt or ambiguity in the interpretation of the contract documents or error, omission or contradiction therein or in any of them, the contractor shall prior to commencing the relative work, apply in writing to the owner for his decision in resolution of the doubt, ambiguity or contradiction or correction of the error or omission, as the case may be. Should the contractor fail to apply to the owner for his decision, as aforesaid prior to commencing the relative work, the contractor shall perform said work as per interpretation of owner whose decision shall be final and binding on contractor.

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Scope of Work for ""Supply & Installation of Application Server & Network Devices at Sindri Project, HURL."

The scope of work includes Supply of Below mentioned items with quantity as described on above table and installation of hardware items like Application Server, 42U Server Rack, 48 Port POE+ Distribution switch, 12V 65AH Battery at HURL, Sindri Project.

1. Application Server

S.No	Component	Specification
1	Form factor	2U Rack Mountable with rails.
2	Processor Make and Configuration	Two Socket motherboard presently to be populated with two CPUs-Intel Xeon 16 or more Core Gold Series 6226R or higher processor with speed 2.9 GHz or higher and 22 MB cache or higher.
3	Chipset	Intel C621 Series (or higher) on supported Motherboard
4	RAM Size (GB)	Total 128 GB (8 X 16GB) or higher DDR4 -ECC 2933 Mhz or higher RAM. Provision for future scalability up to minimum 3 TB using existing memory.
5	Hard Disks Drive	1. Minimum 2 X 480 GB SSD Mix use Disk or higher with RAID Controller for Operating System. 2. Minimum 8 x 2.4 TB,10K or higher SAS Disk .
6	Graphics	Should support graphic card
7	Network Ports	Minimum 2x10G (SFP Fiber) + Minimum 4 x 1G Ethernet Ports.
8	USB ports	Minimum 4 (Four) USB2/ USB 3.0 or higher version of USB ports
9	PCI Slots Expansion Slots	Minimum 6 (Six) PCI/PCI Express slots.
10	Storage Controller	SATA/NLSAS/SAS/SSD hard disk supported controller with RAID 0,1,5,10 support and to be configured in RAID 5 for Server and Raid 6 for schedule back up of NAS storage.
11	Removable media	8X DVD writer or higher(latest) at the time of supply preferably internal
12	Power Supply and Fan Redundancy	The system should be configured with hot swappable redundant power supplies and fans (N+1 redundancy)-700W or More
13	Warranty	Three years onsite comprehensive OEM warranty with hardware support. 3-year product warranty should reflect in the support web site of the OEM.
14	Power	230V+/- 10% Single phase AC, 50 Hz
15	Environmental Compliance	Should have environmental compliance as per Industry Standards.
16	Operating System	Application Server should have Licensed with Microsoft windows Server Standard 2019 16 core OS and server should support Microsoft Window Server, Enterprise Linux, VMWare etc.
17	Market position	The OEM for the proposed server must be in Leaders quadrant in the last two Gartner's report of "Magic Quadrant for Modular Servers" & should have been one of the top three server vendors (by market share revenue in IDC or Gartner report) in any of the previous 2 quarters.

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2. 42U Server Rack (Floor Standing Enclosure)

S No	Technical Specifications
1	Acceptable Make - Valrack/ Netrack/ Rittal/ Liebert
2	Racks manufactured out of steel sheet punched, formed, welded and Powder coated and should be from ISO 14001 ,27000 Certified Company & UL Listed
3	Standard for Racks configuration will be welded frame and side panels and vented top cover
4	Rack should have Front Convex Single Perforated Door and Dual Perforated door at Rear.
5	Rack should have 2 no's of removable side panel with slam latch.
6	Rack should have provision to mount racks on Floor
7	Rack should be 42U(1U = 44.45 mm) in Height.
8	It should be 800MM Wide,1000MM Deep and Overall height 2115 MM.
9	Rack should include adopter kit 1 no (loop type)
10	Rack should Conforms to DIN 41494 or Equivalent EIA /ISO / EN Standard
11	Rack should have Adjustable mounting depth,
12	Rack 4 No Adjustable, 19” verticals with Punched 9mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.
13	Rack should have Numbered U positions,
14	Rack should have 100% assured compatibility with all equipment’s conforming to DIN 41494 (General industrial standard for equipment’s)
15	Powder coated finish with seven Tanks pre-treatment process meeting IS
16	Rack should have Proper Grounding & Bonding
17	Rack should have Fan module Mount Provision on top Cover
18	Rack should have Fan tray with 4 no's 90 CFM Fan
19	Rack should have 2 No Fixed shelf with 715mm depth for mounting NON Rack mountable Equipment’s
20	Rack should have 1 No Key Board shelf with 715mm depth
21	Rack should have 2 Vertical and 2 Horizontal Cable manager
22	Rack should have 2 No Server /IT Rack mount power distribution unit, 1Ph, 230V, 32A, 50/60Hz, Zero U standard with 12 X Indian Round Pin 5/15A, 16A MCB X 2 Circuits- PDU Rating 7.3KVA/Bottom feed-3Mt/ Black/ Inlet Plug Not Installed
23	Rack should have provision for cable entry Exit from Both top & Bottom.
24	Rack should have 1 Packet of mounting hardware, Pack of 20.

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3. 12Port Layer 2 Poe+ Managed Switch

Sl. No	Specification Required
1.0	**Market Position/Make:** The OEM for the proposed switch must be in Leader by Gartner in its just-released 2019, 2020 Magic Quadrant for the Wired and Wireless LAN Access Infrastructure.
2.0	**Architecture & Port Density**
2.1	Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.
2.2	Switch should have Twelve (12) 1GbE PoE+ RJ45 ports and Two (2) 10Gb SFP Slots or Two 10Gb RJ45 Port.
2.3	Switch should support scalability of 2 x 10GBase-X SFP+ ports either in addition.
2.4	The Switch should support Stacking up to 8 Switches with more than 20Gbps stacking bandwidth per Switch.
3.0	**Performance**
3.1	Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of 20 Gbps or more.
3.2	Forwarding Capacity: Should provide wire-speed packet forwarding of 47 Mpps or more.
4.0	**Layer 2 features**
4.1	Support for 512 VLANs and 4,094 VLAN IDs
4.2	16K MAC address table provides access to many Layer 2 devices
4.3	Shall support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2
4.4	Should support Jumbo Frames (up to 9K bytes)
5.0	**Layer 3 features**
5.1	Should support minimum 1K IPv4 routes or more
5.2	Should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from day 1.
5.3	Should support Dynamic IPv4 & IPv6 Routing protocols (OSPFv2 and OSPFv3) and Multicast Routing Protocols from Day 1.

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6.0	**Security**
6.1	Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords.
6.2	Should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3
6.3	Should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.
6.4	Should support IPv4 and IPv6 ACLs with up to 500 rules per ACL and a minimum of 6K rules per system (Standalone Switch or Stack).
6.5	Should support Byte and packet based broadcast, multicast, and unknown-unicast limits with suppression port dampening.
6.6	Should support IPv6 Router Advertisement (RA) Guard.
6.7	Should support Flexible Authentication with 802.1x Authentication and MAC Authentication.
7.0	**Manageability**
7.1	Should support manageability using Network Management Software with Web based Graphical User Interface (GUI).
7.2	Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring
7.3	Should support NetFlow or sFlow or equivalent
8.0	**Physical Attributes & PoE Power Budget**
8.1	Mounting Option: The Switch should be configured with 19” Universal rack mount kit.
8.2	PoE Power Budget: The PoE Switch should provide a minimum of 120 watts of PoE+ power.
9.0	**Mandatory Compliance**
9.1	All categories of Switches, Transceivers & Switch OS should be from same OEM
10.0	**Warranty**
10.1	The Switch should be quoted with TAC Support and Warranty for 3 years with NBD Hardware Replacement.

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4. 48 Port POE+ Layer 3 Managed Switch (Distribution Switch)

Sl. No	Specification Required
1.0	**Market Position/Make:** The OEM for the proposed switch must be in Leader by Gartner in its just-released 2019, 2020 Magic Quadrant for the Wired and Wireless LAN Access Infrastructure.
2.0	**Architecture & Port Density, Stacking**
2.1	The Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.
2.2	The Switch should have Four (4) 10 GbE SFP Slots/10 Gbe RJ45 Port and Forty-Eight (48) 1GbE RJ45 ports from day one
2.4	The Switch should support Active-Active configuration using Virtual Switching System (VSS) or Virtual Chassis (VC) or equivalent Switch Clustering feature. Ports and Cables required for supporting Switch Clustering should be provided from Day 1. Stacking Bandwidth Support 160 Gbps and SD-Access should be.
3.0	**Performance**
3.1	Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of 256 Gbps or more.
3.2	Forwarding Capacity: Should provide wire-speed packet forwarding of 190 Mpps or more.
4.0	**Layer 2 features**
4.1	Should support 4K active VLANs
4.2	Should support 15K MAC addresses or more.
4.3	Shall support IP multicast snooping IGMP v1, v2, v3
4.4	Should support Jumbo Frames (up to 9K bytes)
5.0	**Layer 3 features**
5.1	Should support minimum 10K IPv4 routes or more
5.2	Should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from day 1.

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5.3	Should support the following Dynamic IPv4 & IPv6 Routing protocols and Multicast Routing Protocols from Day 1.
5.3 a	Layer 3 capabilities, including OSPF, EIGRP, ISIS, RIP, and routed access
5.3 b	PIM-SSM, PIM Sparse, PIM Dense, PIM Anycast RP, and PIM passive IPv4 multicast routing.
5.3 c	IPv4 Multicast Non-stop routing (NSR) support for PIM-SM, SSM, and Anycast RP.
5.3 d	PIM-SSM, PIM Sparse, PIM Anycast RP and PIM6-SM Snooping IPv6 multicast routing.
6.0	**Security**
6.1	Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords.
6.2	Should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3
6.3	Should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.
6.4	Should support IPv4 and IPv6 ACLs with up to 2K rules per ACL and a minimum of 6K rules per system (Standalone Switch or Stack).
6.5	Should support Byte and packet based broadcast, multicast, and unknown-unicast limits with suppression port dampening.
6.6	Should support IPv6 Router Advertisement (RA) Guard.
6.7	Should support Flexible Authentication with 802.1x Authentication and MAC Authentication.
7.0	**Manageability**
7.1	Should support manageability using Network Management Software with Web based Graphical User Interface (GUI).
7.2	Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring
7.3	Should support NetFlow or sFlow or equivalent

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8.0	**Physical Attributes, Power Supply and Fans**
8.1	Mounting Option : 19" Universal rack mount ears
8.2	It should have the redundant power supplies unit to provide 1:1 redundant power.
8.3	48 ports full PoE+, FRU redundant
9.0	**Mandatory Compliance :**
9.1	All categories of Switches, Transceivers & Switch OS should be from same OEM
10.0	**Warranty**
10.1	Switch should be quoted with TAC Support and Warranty for 3 years with NBD Hardware Replacement.

5. 24Port Gigabit PoE+ Layer 2 Managed Switch

Sl. No	Parameters	Specification Required
1	Make & Model	The OEM for the proposed switch must be in Leader by Gartner in its just-released 2019, 2020 Magic Quadrant for the Wired and Wireless LAN Access Infrastructure.
2	Architecture & Port Density	Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.
		Switch should have Twenty Four (24) 1GbE PoE+ RJ45 ports and Four (4) 10Gb SFP+ Slots/Four (4) 10GbE RJ45 Port.
		Access Switch should support Stacking up to 8 Switches with more than 40 Gbps stacking bandwidth per Switch.
3	Performance	Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of 132 Gbps or more.
		Forwarding Capacity: Should provide wire-speed packet forwarding of 95 Mpps or more.
4	Layer 2 features	Switch should support 4K Active VLANs
		Switch should support 10K MAC addresses or more.
		Switch should support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2
		Switch should support Jumbo Frames (up to 9K bytes)
5	Layer 3 features	Switch should support minimum 1K IPv4 Routes or more
		Switch should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from Day 1.

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		Switch should support Dynamic IPv4 & IPv6 Routing protocols (OSPFv2 and OSPFv3) and Layer 3 Multicast Routing Protocols from Day 1.
6	Security	Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords.
		Switch should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3
		Switch should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.
		Switch should support IPv4 and IPv6 ACLs with up to 500 rules per ACL and a minimum of 6K rules per system (Standalone Switch or Stack).
		Switch should support Byte and packet based broadcast, multicast, and unknown-unicast limits with suppression port dampening.
		Switch should support IPv6 Router Advertisement (RA) Guard.
		Switch should support Flexible Authentication with 802.1x Authentication and MAC Authentication.
7	Manageability	Switch should support manageability using Network Management Software with Web based Graphical User Interface (GUI).
		Switch should provide Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring
		Switch should support NetFlow or sFlow or equivalent
8	Physical Attributes & PoE Power Budget	Mounting Option: 19” Universal rack mount ears
		PoE Power Budget: The Switch should provide a minimum of 370 watts of PoE+ power.
9	Mandatory Compliance	All categories of Switches, Transceivers & Switch OS should be from same OEM
10	Warranty	Switch should be quoted with TAC Support and Warranty for 5 years with NBD Hardware Replacement.
11	Product brochure	Vendor should provide printed technical catalogs/brochures for the quoted model containing technical specifications, features

6. SFMS Battery

Sl. No	**Specification Required**
1.1	SFMS Battery for UPS – 12V 65AH (Quanta/Exide) with connecting cable.
1.2	Battery Type: SMF, VRLA (Sealed Maintenance Free)
1.3	Warranty: 3 Year

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7. CAT6 STP Cables

Characteristic	**Required Specification**
Features	Cat6 S/FTP indoor cable, conforming to ISO/IEC-11801 & IEC 61156-5, tested up to 1000MHz. The cable contains 4 individually foil-shielded twisted pairs cabled together, overall shielded with a tinned-copper braid overall jacketed with LS0H Compound for indoor use, conforming to IEC 60332-1.
Mechanical Characteristics	Basic Conductor Solid 23AWG, bare annealed copper (0.57mm nom. OD) Insulation: SFS-PO.
	Total number of insulated conductors: 8, twisted in 4 pairs.
	Color code Blue x White, Orange x White, Green x White, Brown x White.
	Individual pair shield Aluminum foil, providing 100% coverage, foil face out.
	Outer jacket Low-smoke, Zero-halogen, Flame-retardant compound for indoor use.
	Outer jacket thickness 0.6 mm nom or better
	Color Lilac-Blue RAL 4005.
	Overall Diameter 7.2 mm nom or better
	Surface Marking See below.
Mechanical Properties	Bend Radius Dynamic: 8xD mm min. Static: 4xD mm min
	Temperature operating range -20 to +60C or better
	Flame Tests IEC 60332-1 (Fire), IEC 60754 (gas) & IEC 61034 (smoke).
	Pulling force 150 N max.
Electrical Properties @ 20C	Mean Impedance 100±5 Ohm @ 1-1000 MHz
	Capacitance 40 pF/m nom @ 1 KHz
	Capacitance unbalance to ground 1.6 pF/m max. @ 1 KHz
	Insulation Resistance 0.5 GOhm•Km min.
	DC Resistance 72 Ohm/Km max. (2% max. resistance unbalance).
	Voltage rating 72Vdc max.

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8. CAT6 UTP Cables

Sr no	Feature	Requirement
1	Type	Category 6 Unshielded Twisted Pair 4 pair cable shall be compliant with ANSI/TIA/EIA-568-B.2-1 Additional Transmission Performance Specifications for 4-pair Category 6 Cabling. The Cable should be tested by third party upto 700 MHz and report should be submitted along with bid.
a)	Type	Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP.
b)		Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.
2	Jacket material	Jacket material should be FR-PVC
3		Incorporates central spine maintaining pair separation during installation to ensure premium performance after installation.
4	Mechanical Characteristics	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, polymer spine / full separator. Half shall not be accepted. Conductor Solid Copper Conductor Diameter 0.56±0.005mm (23 AWG) Insulator Polyolefin Outer Diameter 6.0±0.4mm Max. Temperature 75°C
5	ROHS/ELV	Compliant

9. CAT6 UTP Keystone Jack

Sr no	Feature	Requirement
1	Type	Cat 6 Jack is designed to maintain clean secure connections. The RJ-45 jack features 'spring-loaded shutter' which protects it from dust and contaminants as well as provides tactile feedback –the spring-loaded shutter pops out an improperly seated patchcord–all with single-handed plug-in and removal.
2	Wire terminal	200 termination cycles
3	Modular Jack	750 mating cycles
4	Plastic Housing	Polycarbonate, UL94V-0 rated or equivalent
5	IDC Contact Plating	Tin/Lead Plate
6	Faceplate	Square shuttered plate with 1/2/4 port. 86 x 86 mm
7	ROHS/ELV	Compliant

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10. 6U Wall Mount Enclosure

Sr. No.	Parameters/Features	Technical Specifications I Requirement
1	Size	6U RACK suitable for mounting network switch
2	Type	Wall mounted
3	Front	Transparent door with Lock
4	Side	Easily Removable Side doors with locking mechanism
5	Fans	2 numbers cooling fan
6	Power	Suitable number of Electrical power
		Outputs with spike buster.
7	Sealing	All opening and cable entry points should have proper cap/sealing to prevent Rodent
8	Certification	The Rack should be UL certified Conforms to DIN 41494
9	Accessories	1 Power Distribution Units
		1U Horizontal Cable Manager
		1 Cantilever Tray

11. 24Port CAT6 UTP Jack Panel Loaded

Sr no	Feature	Requirement
1	Type	19” 24-port, loaded with Jack , A key product used in both Category 6 link and channel gigabit ethernet applications. The IDC section consists of V-shaped contacts that flex not fatigue when terminated. Each port features spring-loaded shutter and can be colour coded to match jack outlets. Offering both front and rear labelling options, the patch panel is constructed of cold-rolled steel for additional strength and durability.
2	Ports	24
3	Plastic Housing Jack Connector	Polycarbonate, UL94V-0 rated or equivalent
4	Contact Plating	50µ” Gold/100µ” Nickel
5	Front Connector interface	RJ45

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6	Circuit Identification Scheme	Icons on each of 24-ports
7	Port Identification	9mm or 12mm Labels on each of 24-ports (to be included in supply)
8	Height 1 U	(1.75 inches)
9	ROHS/ELV	Compliant

12. Outdoor Wireless P2P Radio (5GHz)

Item No.	**Technical Specification**
1	System must operate in unlicensed band frequency spectrum of ISM-III Unlicensed band. Operating frequency range: 5 GHz: 4910 – 6135 MHz (exact frequencies as allowed by local regulations)
2	System should employ bandwidth per channel of 20 MHz, 40 MHz and 80 MHz
3	System efficiency should be at least 8.75 bps/Hz in a 20MHz, 40 Mhz and 80Mhz channel size
4	System must support actual aggregate throughput of more than 600+ Mbps
5	System Should support IPv4/IPv6 Dual Stack.
6	100/1000 Base T & Standard PoE pinouts.
7	Transmit power standard of system should be 28 dBm with 1 dBm interval
8	Transmit power should employ automatic power back off (Automatic Transmit Power Control).System should change TX power in accordance with required received signal.
9	Rx sensitivity of the system must be -87 dBm or better
10	System Sould support Online spectrum analyzer
11	System should have the capability to adapt the hitless modulation mode depending on the link environment ensure best throughput while maintaining the link despite drop in link budget due to NLOS situation. Modulation level shall be dynamically adaptive between MCS0 (BPSK)to MCS9 (256QAM5/6)
12	System Should support 65000 PPS
13	System must support the MTU size of 1700 Bytes
14	System Should support Spanning tree protocol for Layer 2 redundancy
15	System Should support DHCP server and client functionality
16	System should also define the priority of Broadcast ,Multicast and voice traffic and rate limiting for broadcast traffic.
17	System should support Encryption128-bit AES (CCMP mode)
18	System should also support a management VLAN and data vlan for further security Measure
19	System must have the ability to tag vlan as per requirement

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20	System should support the Layer 2 and layer 3 firewall based on source and destination to protect from any security breach
21	System should also provide the filtering on basis of specific TCP port
24	Antenna Type: Dish
28	Operating Temperature -30°C to +65°C
29	System must have inbuilt surge suppressor of 1 Joule
30	System should have at least IP 67 environmental protection
37	Certifications: System, should have following certification to ensure regulation FCCID Z8H89FT0062 Industry Canada Cert 109W-0062 CE EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)

13. Two (02) Pair Telephone Cables

Sl. No	**Specification Required**
1.0	**<u>Product details- Please specify</u>**
1.1	2Pair Telephone Cables Standard (Any Reputed make)
1.2	0.5mm² copper conductor size, External diameter 4.5mm
1.3	4 Core cable (2 Pair) with Industry standard colour coding - Orange, Orange/White, Blue & Blue/White coloured cores as indicators

14. 5 Pair Telephone Cables

Sl. No	**Specification Required**
1.0	**<u>Product details- Please specify</u>**
1.1	5Pair Telephone Cables Standard (Any Reputed make)
1.2	0.5mm² copper conductor size, External diameter 4.5mm
1.3	Insulation Material : PVC

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15. UTP CAT6 Patch Cords (1M)

Sr no	Feature	Requirement
1	Type	Cat 6 U/UTP Patch Cords are key components of Cat 6 U/UTP End-to-End Solution and are designed to support data networks for 10/100BASE-T and 1000BASE-T applications.
2	Conductor	24 AWG stranded copper wire
3	Length	1 Meters
4	RJ45 plug and boot material	Clear polycarbonate
5	Outer Sheath	LS0H
6	RJ45 plug dimensions compliant with	ISO/IEC 60603-7-4 and FCC 47 Part 68
7	Contact material	0.35mm thick copper alloy
8	MIN operating life	750 insertion cycles
9	Sheath Material	LSZH
10	ROHS/ELV	Compliant

16. UTP CAT6 Patch Cords (2M)

Sr no	Feature	Requirement
1	Type	Cat 6 U/UTP Patch Cords are key components of Cat 6 U/UTP End-to-End Solution and are designed to support data networks for 10/100BASE-T and 1000BASE-T applications.
2	Conductor	24 AWG stranded copper wire
3	Length	2 Meters
4	RJ45 plug and boot material	Clear polycarbonate
5	Outer Sheath	LS0H
6	RJ45 plug dimensions compliant with	ISO/IEC 60603-7-4 and FCC 47 Part 68
7	Contact material	0.35mm thick copper alloy
8	MIN operating life	750 insertion cycles
9	Sheath Material	LSZH
10	ROHS/ELV	Compliant

17.UTP CAT6 Patch Cords (3M)

Sr no	Feature	Requirement
1	Type	Cat 6 U/UTP Patch Cords are key components of Cat 6 U/UTP End-to-End Solution and are designed to support data networks for 10/100BASE-T and 1000BASE-T applications.
2	Conductor	24 AWG stranded copper wire
3	Length	3 Meters
4	RJ45 plug and boot material	Clear polycarbonate
5	Outer Sheath	LS0H
6	RJ45 plug dimensions compliant with	ISO/IEC 60603-7-4 and FCC 47 Part 68
7	Contact material	0.35mm thick copper alloy
8	MIN operating life	750 insertion cycles
9	Sheath Material	LSZH
10	ROHS/ELV	Compliant

18. Media Converter

Sl. No	Specification Required
1.0	SM Single Core SC Port Media Converter
1.1	Single mode OFC to EJ45 Copper 1000BaseT Media Converter
1.2	Wavelength:1310/1550 and 1550/1310 (BIDI WDM)

19. Fiber Patch Cords

Sr No	Required Specification	
1	Make and Type	SC to SC Duplex tuned Fiber Optic Patch Cord 3 Mtr, 9/125 Micron
2	Cable Sheath	LSZH
3	Cable Diameter	1.8 mm twin zip
4	Ferrule	Ceramic
5	Buffer	Tight buffered
6	Insertion Loss	MAX .3 db
7	Return Loss	> 45 db
8	Temperature Range	.-10 Degree C to +60 Degree C
9	ROHS	ROHS Compliant

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20. 6 Core SM Fiber Cable

Sr. No.	**Required Specification**	
1	Features	6 Core SM ARMOURED OPTICAL FIBRE CABLES
1.1	Make and Type	Central Loose Tube with jelly compound
		High quality Electro Chromium Coated Corrugated Steel tape (ECCS)
		Armoured design with Music Quality Steel wire
1.2	Cable Sheath	HDFP / LSZH sheath
1.3	International Specification	IEC 811-1, IEC 1034, IEC 754-1, IEC 60754-2 (EN 50267-2-2), IEC 60332-1-2, NES 713

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Special Terms and Conditions

1. The Supply/work will be executed as per above mentioned Scope of Supply/Work.
2. Installation: Application Server, 42U Server Rack, 48 Port POE+ Distribution switch, 12V 65AH Battery all hardware installation should be done by bidder.
3. Warranty: -The vendor shall provide guarantee towards any manufacturing and metallurgical defects, workmanship and performance of the materials & systems for a period of minimum 3 year for items mentioned in Sl No 3,4,5,6 of Annexure A(I) and one (01) year for rest items of Annexure A(I) from the period of commissioning wherever applicable and OEM warranty is mentioned in technical specification of each items separately.
4. Delivery Period: Supply and installation of material will be done within 30 days from the date of receiving of purchase order.
5. Liquidated Damage: In the event of delay in completion beyond contract completion period, price reduction at the rate 0.5% per week of part there of subject to maximum 5% of total PO value shall be recovered from the contractor's bills.
6. Transportation: The vendor shall arrange and to take full responsibility during transit and comply with all necessary transit insurance, safety, payment etc.
7. Packaging : All items before dispatch shall be packed properly to avoid any damage in transportation / handling/ loading / unloading. Any damage in supplied items in transportation / handling/ loading / unloading due to unproper packaging would be rejected and fresh material to be supplied by you without any extra cost.
8. The price shall be firm, no variation shall be allowed on any account till execution of complete Supply/work.
9. The firm/Agency shall comply the regulatory clauses of all types of labour Act and shall not engage any minor under this contract.
10. All safety measures must be taken care of, in order to avoid any accident, fire and other safety hazards. Any type of loss of assets due to any such incident is the sole responsibility of the Firm/Agency. HURL shall in no way be liable for any such incident.
11. If there is any damage to HURL property or any other financial burden on HURL because of willful or negligent action by the Firm or its personnel, HURL shall be entitled to recover the same by means of compensation from the Firm/ Agency.
12. GST will be extra and reimbursed to the agency after submission of the documentary evidence.
13. For proper execution of Supply/work enough tools & tackles are to be provided by the agency at their own cost, nothing shall be paid extra for this.
14. All boarding/ lodging/ Transportation/ Local conveyance of workman engaged shall be in the scope of contractor.
15. SAFETY CLAUSES: All safety requirements shall be fulfilled by contractor. Safety of all manpower, tools involve shall be under contractor scope. Safety in totality is complete responsibility of contractor. Proper safety arrangements / PPEs for carrying out the job is under contractor's scope and same has to be complied with as per the direction of EIC. For

non-compliance of introductions for safety measures, suitable penalty will be imposed and the decision of EIC-HURL shall be final and binding to the contractor.

16. There would be no extra payment against the said supply and installation.
17. If material supplied are not of contract specification or otherwise not satisfactory for any reason HURL shall be entitled to reject the supplies, cancel the order and buy the requirement from elsewhere. HURL also deserves the right to forfeit the security deposit if any made by the seller for due performance of contract.
18. All the goods received will be inspected for being in good condition. Any damage in above said items during transportation or loading /unloading would be rejected and fresh material to be supplied by you without any extra cost.
19. Payment for items received but rejected during inspection would be withheld till replacement of same by a new identical item.
20. Materials rejected by HURL will lie in the buyer's store at seller's risk and movement thereof will be the seller's sole responsibility. HURL shall in no way be responsible for any deterioration of or damage to the material under circumstances whatsoever.
21. HURL reserve the right to terminate the contract at any time during the contract period in case performance is not found satisfactory and Supply/work not carried as per instruction of HURL Engineer-in-charge.
22. Submission of Invoice: All invoices to be raised in the name of Hindustan Urvarak & Rasayan Limited and will be submitted to Engineer In charge, HURL Sindri Dhanbad (Jharkhand).
23. Any other deviation, exceptions, observations, if any of your offers and any subsequent corresponding which are contrary to the provision of the bidding document any amendments referred above. Shall stand with drawn without any extra financial implication to owner.
24. The quoted rates/Prices shall include all the cost of materials, labours, taxes duties/levies except GST and other incidental expenses to complete the Supply/work as per the specification of Summary of Supply/ work.
25. Engineer in Charge (EIC) or an Officer explicitly authorized by him will represent HURL Sindri project in all dealings with the Firm/ Agency for execution of Supply/work.
26. The contractor shall abide by all statutory rules and regulations of Local authority , State and Central Govt. as the case may be with regard to statutory benefits and non-statutory benefits prevailing at HURL-Sindri as applicable, at his own cost and hence the agency has to quote their rate accordingly by taking care of all these.

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SOR (Schedule of Rates) for "Supply & Installation of Application Server and Network Devices at HURL, Sindri project"

Classification Group Based on Application	Items	Quantity (#)	UOM	Estimate Unit Price in Rs.	Estimated Value in Rs.
Group 1 - Application Server	Application Server	1	Nos.	859742	859742
Group 2 - Network Rack and Network cables and rack accessories	42U Server Rack	1	Nos.	95000	95000
	65AH 12V Battery	3	Nos.	4800	14400
	CAT6 RJ45 Keystone Jack	100	Nos.	187	18700
	6U Network Rack	6	Nos.	5500	33000
	24port Tooless Keystone Jack Patch Panel	4	Nos.	4400	17600
	0.5 mm 2 Pair 90 Mtr PVC Unarmoured Telephone Cable	10	Box	2112	21120
	0.5 mm 5 Pair PVC Unarmoured Telephone Cable	500	Mtr	35	17500
	3 Feet Patch Cord cat 6	100	Nos.	112	11200
	7 Feet Patch Cord cat 6	100	Nos.	131	13100
	10 Feet Patch Cord cat 6	50	Nos.	140	7000
	SC-SC Optic Fiber Patch Cord Optical 3 Mtr	20	Nos.	1450	29000
	6 Core SM Fiber Cable	2000	Mtr	42	84000
Group 3- Network Switch, Network wireless Radio, Network media converter and cable	8 Port POE Network Switch	4	Nos.	85000	340000
	48 Port POE Network Switch Distribution Switch	1	Nos.	295000	295000
	24 Port POE Network Switch	4	Nos.	167000	668000
	STP Cat6 Cable (305Mtr/Box)	5	Nos.	16500	82500
	UTP Cat6 Cable (305Mtr/Box)	5	Nos.	7200	36000
	Point to Point wireless Radio 5Ghz	3	Pair	75000	225000
	Media Converter	4	Pair	6500	26000

(#)- *Quantities indicated in the above table are tentative only. All the items may or may not be executed either partially or fully. There shall not be any compensation for non-execution of any item or multiple items either partially or fully.*

The above estimated rate are exclusive of GST. The bidder shall quote their rate exclusive of GST.

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Format of Price Bid/ Financial Bid

"Supply & Installation of Application Server and Network Devices at HURL, Sindri project"

BoQ1-Group 1: Application Server

Validate | Print | Help

Percentage BoQ

Tender Inviting Authority: BUH, HURL Sindri Project

Name of Work: Supply & Installation of Application Server and Network Devices at HURL, Sindri project

Contract No:

Name of the Bidder/ Bidding Firm / Company :	

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
1	Group 1 - Application Server					
1.01	Application Server	1.000	Nos	859742.00	859742.00	INR Eight Lakh Fifty Nine Thousand Seven Hundred &
Total in Figures					859742.00	INR Eight Lakh Fifty Nine Thousand Seven Hundred & Forty Two Only
Quoted Rate in Figures			Select		0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				

BoQ1 | BoQ2 | BoQ3

(#)- *Quantities indicated in the above table are tentative only. All the items may or may not be executed either partially or fully. There shall not be any compensation for non-execution of any item or multiple items either partially or fully.*

Note: -

1. The quoted rate/amount by the bidder shall be inclusive of all taxes and duties etc. but exclusive of the GST. Bidder must quote their rates exclusive of GST. The GST shall be paid extra as per applicable rates.

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Format of Price Bid/ Financial Bid

BoQ2-Group 2: Network Rack and Network cables and rack accessories

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Percentage BoQ

Tender Inviting Authority: BUH, HURL Sindri Project

Name of Work:Supply & Installation of Application Server and Network Devices at HURL, Sindri project

Contract No:

Name of the Bidder/ Bidding Firm /	

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	**Item Description**	**Quantity**	**Units**	**Estimated Rate in Rs. P**	**TOTAL AMOUNT Without Taxes in Rs. P**	**TOTAL AMOUNT In Words**
1	2	3	4	5	6	7
2	**Group 2 - Network Rack and Network cables and rack accessories**					
2.01	42U Server Rack	1.000	Nos	95000.00	**95000.00**	INR Ninety Five Thousand Only
2.02	65AH 12V Battery	3.000	Nos	4800.00	**14400.00**	INR Fourteen Thousand Four Hundred Only
2.03	CAT6 RJ45 Keystone Jack	100.000	Nos	187.00	**18700.00**	INR Eighteen Thousand Seven Hundred Only
2.04	6U Network Rack	6.000	Nos	5500.00	**33000.00**	INR Thirty Three Thousand Only
2.05	24port Tooless Keystone Jack Patch Panel	4.000	Nos	4400.00	**17600.00**	INR Seventeen Thousand Six Hundred Only
2.06	0.5 mm 2 Pair 90 Mtr PVC Unarmoured	10.000	Nos	2112.00	**21120.00**	INR Twenty One Thousand One Hundred & Twenty
2.07	0.5 mm 5 Pair PVC Unarmoured Telephone	500.000	Nos	35.00	**17500.00**	INR Seventeen Thousand Five Hundred Only
2.08	3 Feet Patch Cord cat 6	100.000	Nos	112.00	**11200.00**	INR Eleven Thousand Two Hundred Only
2.09	7 Feet Patch Cord cat 6	100.000	Nos	131.00	**13100.00**	INR Thirteen Thousand One Hundred Only
2.1	10 Feet Patch Cord cat 6	50.000	Nos	140.00	**7000.00**	INR Seven Thousand Only
2.11	SC-SC Optic Fiber Patch Cord Optical 3 Mtr	20.000	Nos	1450.00	**29000.00**	INR Twenty Nine Thousand Only
2.12	6 Core SM Fiber Cable	2000.000	Nos	42.00	**84000.00**	INR Eighty Four Thousand Only
Total in Figures					361620.00	INR Three Lakh Sixty One Thousand Six Hundred & Twenty Only
Quoted Rate in Figures			Select		0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				

BoQ1 | BoQ2 | BoQ3

(#)- *Quantities indicated in the above table are tentative only. All the items may or may not be executed either partially or fully. There shall not be any compensation for non-execution of any item or multiple items either partially or fully.*

Note: -

1. The quoted rate/amount by the bidder shall be inclusive of all taxes and duties etc. but exclusive of the GST. Bidder must quote their rates exclusive of GST. The GST shall be paid extra as per applicable rates.

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Format of Price Bid/ Financial Bid

BoQ3-Group 3: Network Switch, Network wireless Radio,Network media converter and cable

Validate | Print | Help

Percentage BoQ

Tender Inviting Authority: BUH, HURL Sindri Project

Name of Work:Supply & Installation of Application Server and Network Devices at HURL, Sindri project

Contract No:

Name of the Bidder/ Bidding Firm /	

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
3	**Group 3- Network Switch, Network wireless Radio, Network media**					
3.01	8 Port POE Network Switch	4.000	Nos	85000.00	**340000.00**	INR Three Lakh Forty Thousand Only
3.02	48 Port POE Network Switch Distribution	1.000	Nos	295000.00	**295000.00**	INR Two Lakh Ninety Five Thousand Only
3.03	24 Port POE Network Switch	4.000	Nos	167000.00	**668000.00**	INR Six Lakh Sixty Eight Thousand Only
3.04	STP Cat6 Cable (305Mtr/Box)	5.000	Nos	16500.00	**82500.00**	INR Eighty Two Thousand Five Hundred Only
3.05	UTP Cat6 Cable (305Mtr/Box)	5.000	Nos	7200.00	**36000.00**	INR Thirty Six Thousand Only
3.06	Point to Point wireless Radio 5Ghz	3.000	Nos	75000.00	**225000.00**	INR Two Lakh Twenty Five Thousand Only
3.07	Media Converter	4.000	Nos	6500.00	**26000.00**	INR Twenty Six Thousand Only
Total in Figures					**1672500.00**	INR Sixteen Lakh Seventy Two Thousand Five Hundred Only
Quoted Rate in Figures			Select		**0.00**	INR Zero Only
Quoted Rate in Words		**INR Zero Only**				

BoQ1 | BoQ2 | BoQ3

(#)- *Quantities indicated in the above table are tentative only. All the items may or may not be executed either partially or fully. There shall not be any compensation for non-execution of any item or multiple items either partially or fully.*

Note: -

1.The quoted rate/amount by the bidder shall be inclusive of all taxes and duties etc. but exclusive of the GST. Bidder must quote their rates exclusive of GST. The GST shall be paid extra as per applicable rates.

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Annexure-A(I)

Technical Details of Quoted Product

Bidders are required to fill the following details in Annexure A(I) and submit along with technical bid. Submitted details of technical parameters will be evaluated against specified details in "Scope of work" in tender document for acceptance/rejection of quoted product by bidder.

- Make and Model for each product item to be filled by bidder.
- Technical Details of Items to be filled by bidder against each mentioned technical parameters.
- The bidder shall enclose product catalogue of individual item mentioning make / model.

S.N.	Product Name	Make and Model (*)	Specification (**)	
			Technical Parameter	Details to be filled by bidder
1	Application Server		1. Form factor:	
			2. Processor Make and Configuration:	
			3. Chipset:	
			4. RAM Size (GB):	
			5. Hard Disks Drive:	
			6. Graphics:	
			7. Network Ports:	
			8. USB ports:	
			9. PCI Slots Expansion Slots:	
			10. Storage Controller:	
			11. Removable media:	
			12. Power Supply and Fan Redundancy:	
			13. Warranty:	

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			14. Power:	
			15. Environmental Compliance:	
			16. Operating System(Windows Server 2019 Standard 16 Core):	
2	42U Server Rack (Floor Standing Enclosure)		1. As per Technical Specification(Annexure-1) Point No. 2 to 6: Accepted/Not Accept	
			2. Rack Size (U):	
			3. Rack Size(HxWxD)(MM):	
			4. As per Technical Specification(Annexure-1) Point No. 9 to 17: Accepted/Not Accept	
			5. Fan tray with 4 no's 90 CFM Fan:	
			6. 2 No Fixed shelf with 715mm depth:	
			7. 1 No Key Board shelf with 715mm depth:	
			8. 2 Vertical and 2 Horizontal Cable manager:	
			9. As per Technical Specification(Annexure-1) Point No. 21 to 24: Accepted/Not Accept	
3	12Port Layer 2 Poe+ Managed Switch		1. Architecture & Port Density(As per technical specification 2.1 to 2.4):Accepted/Not Accepted	
			2. Performance(Switching Bandwidth and Forwarding Capacity):	
			3. Layer 2 features(As per technical specification 4.1 to 4.4):Accepted/Not Accepted	
			4. Layer 3 features(As per technical specification 5.1 to 5.3):Accepted/Not Accepted	
			5. Security(As per technical specification 6.1 to 6.7):Accepted/Not Accepted	
			6. Manageability(As per technical specification 7.1 to 7.3):Accepted/Not Accepted	

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			7. Physical Attributes & PoE Power Budget	
			7.1 Mounting Option(19 inch Universal rack mount kit): Accespetd/ Not Accepted	
			7.2 PoE Power Budget(Watt):	
			8. Warranty(TAC Support and Warranty for 3 years with NBD Hardware Replacement):	
4	48Port POE+ Layer 3 Managed Switch (Distribution Switch)		1. Architecture & Port Density, Stacking (As per technical specification 2.1 to 2.4):Accepted/Not Accepted	
			2. Performance(Switching Bandwidth and Forwarding Capacity):	
			3. Layer 2 features(As per technical specification 4.1 to 4.4):Accepted/Not Accepted	
			4. Layer 3 features(As per technical specification 5.1 to 5.3d):Accepted/Not Accepted	
			5. Security(As per technical specification 6.1 to 6.7):Accepted/Not Accepted	
			6. Manageability(As per technical specification 7.1 to 7.3):Accepted/Not Accepted	
			7. Physical Attributes, Power Supply and Fans	
			7.1. Mounting Option(19 inch Universal rack mount kit): Accespetd/ Not Accepted	
			7.2. Redundant power supplies unit to provide 1:1 redundant power: Accepted/Not Accepted	
			7.3. PoE Power Budget(Watt):	
			7.4. 48 ports full PoE+, FRU redundant: Accepted/Not Accepted	
			8. Warranty(TAC Support and Warranty for 3 years with NBD Hardware Replacement):	
5	24Port Gigabit PoE+ Layer 2 Managed Switch		1. Architecture & Port Density, Stacking (As per technical specification Point No. 2):Accepted/Not Accepted	

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			2. Performance(Switching Bandwidth and Forwarding Capacity):	
			3. Layer 2 features(As per technical specification Point No. 4):Accepted/Not Accepted	
			4. Layer 3 features(As per technical specification Point No. 5):Accepted/Not Accepted	
			5. Security(As per technical specification Point No. 6):Accepted/Not Accepted	
			6. Manageability(As per technical specification Point No. 7):Accepted/Not Accepted	
			7. Physical Attributes, Power Supply and Fans	
			7.1. Mounting Option(19 inch Universal rack mount kit): Accepted/ Not Accepted	
			7.2. PoE Power Budget(Watt):	
			8. Warranty(TAC Support and Warranty for 3 or more years with NBD Hardware Replacement):	
6	SFMS Battery(12V 65AH)		1. SFMS Battery for UPS – 12V 65AH (Quanta/Exide) with connecting cable: Accepted/Not Accepted	
			2. Battery Type: SMF, VRLA (Sealed Maintenance Free): Accepted/Not Accepted	
			3. Warranty(Minimum 3 Year):	
7	CAT6 STP Cables		1. Type(Cat 6 STP/FTP indoor cable, conforming to ISO/IEC-11801 & IEC 61156-5, 23 AWG, speed data Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond): Accepted/ Not Accepted	
			2. Features(As per tehnical specification): Accepted/not Accepted	
			3. Mechanical Characteristics(As per tehnical specification): Accepted/not Accepted)	
			4. Mechanical Properties(As per tehnical specification): Accepted/not Accepted)	

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			5. Electrical Properties @ 20C(As per tehnical specification): Accepted/not Accepted)	
8	CAT6 UTP Cables		1. Type(Cat 6 UTP 4 pair cable shall be compliant with ANSI/TIA/EIA-568-B.2-1, 23 AWG, speed data Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond): Accepted/ Not Accepted	
			2. Jack material (should be FR-PVC): Accepted/not Accepted	
			3. Mechanical Characteristics(As per tehnical specification): Accepted/not Accepted)	
			4. ROHS/ELV(Compliant):Accepeted/ Not Accepted	
9	CAT6 UTP Keystone Jack		1. Type(As per Technical Specification Point no. 1): Accepeted/Not Accepted	
			2. Wire terminal(200 termination cycles):Accepeted/Not Accepted	
			3. Modular Jack (750 mating cycles):Accepeted/Not Accepted	
			4. Plastic Housing(Polycarbonate, UL94V-0 rated or equivalent):Accepeted/Not Accepted	
			5. IDC Contact Plating(Tin/Lead Plate):Accepeted/Not Accepted	
			6. Faceplate(Square shuttered plate with 1/2/4 port. 86 x 86 mm):Accepeted/Not Accepted	
			7. ROHS/ELV(Compliant):Accepeted/Not Accepted	
10	6U Wall Mount Enclosure		1. Size(6U):	
			2. Type(Wall Mounted): Accepted/ Not Accepted	
			3. Front(Transparent door with Lock): Accepted/Note Accepted	
			4. Side(Easily Removable Side doors with locking mechanism):Accepted/Note Accepted	
			5. Fans(2 numbers cooling fan):	
			6. Power(Suitable number of Electrical power, Outputs with spike buster with minimum 6 socket): Accepted/Not Accepted	

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			7. Sealing (As per technical specification point no. 7): Accepted/Note Accepted	
			8. Certification(As per technical specification): Accepted/Note Accepted	
			9. Accessorie(1 Nos 1U Horizontal Cable Manager, 1 Cantilever Tray): Accepted/ Not Accepted	
11	24Port CAT6 UTP Jack Panel Loaded		1. 24Port CAT6 UTP Jack Panel Loaded: Accepted/Not Acepted	
			2. Type(As per technical specifications point no. 1):Accepted/Not Acepted	
			3. Ports(24):	
			4. Plastic Housing Jack Connector(As per technical specification point no. 3): Accepted/ Not Accepted	
			5. Contact Plating(As per technical specification point no. 4): Accepted/ Not Accepted	
			6. Front Connector interface(RJ45): Accepted/ Not Accepted	
			7. Circuit Identification Scheme(Icons on each of 24-ports):Accepted/ Not Accepted	
			8. Port Identification(As per technical specification point no. 7):Accepted/ Not Accepted	
			9. Height (1U):	
			10. ROHS/ELV(Compliant): Yes/No	
12	Outdoor Wireless P2P Radio (5GHz)		1. Frequency(5 GHz: 4910 – 6135 MHz): Accepeted/Not Accepted	
			2. Channel bandwidth(20 MHz, 40 MHz and 80 MHz):Accepeted/Not Accepted	
			3. Aggregate Throughput(more than 600+ Mbps):	
			4. RJ45 Port Speed(100/1000 BaseT with POE and standard POE pinouts): Accepted/Not Accepted	
			5. Transmit Power(minimum 28 dBm with 1 dBm interval):	
			6. Antenna Type(Dish):Accepted/Not Accepted	
			7. Operating Temperature -30°C to +65°C: Accepted/Not Accepted	

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			8. System must have inbuilt surge suppressor of 1 Joule: Accepted/Not Accepted	
			9. Environmental protection(IP67):	
			10. Certifications(As per technical specification point no. 37): Accepted/Not Accepted	
			11. As per technical specification Point no. 5 and 8 to 21: Accepted/Not Accepted	
13	2 Pair Telephone Cables		1. Type(2Pair Telephone Cables Standard): Accpeted/Not Accepted	
			2. Size(0.5mm² copper conductor), External Diameter(4.5mm): Accepted/ Not Accepted	
			3. 4 Core cable (2 Pair) with Industry standard colour coding - Orange, Orange/White, Blue & Blue/White coloured cores as indicators: Accepted/ Not Accepted	
14	5 Pair Telephone Cables		1. Type(5 Pair Telephone Cables Standard): Accpeted/Not Accepted	
			2. Size(0.5mm² copper conductor), External Diameter(4.5mm): Accepted/ Not Accepted	
			3. 10 Core cable (5 Pair) with Industry standard colour coding: Accepted/ Not Accepted	
15	UTP CAT6 Patch Cords (1M)		1. Type(As per technical specification point no. 1):Accepted/ Not Accepted	
			2. Conductor (23/24 AWG stranded copper wire):Accepted/ Not Accepted	
			3. Length (1 Meter):Accepted/ Not Accepted	
			4. RJ45 plug and boot material(Clear polycarbonate):Accepted/ Not Accepted	
			5. Outer Sheath(LS0H):Accepted/ Not Accepted	
			6. RJ45 plug dimensions compliant with ISO/IEC 60603-7-4 and FCC 47 Part 68: Accepted/ Not Accepted	
			7. Contact material(0.35mm thick copper alloy):Accepted/ Not Accepted	
			8. MIN operating life(minimum 750 insertion cycles):Accepted/ Not Accepted	

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			10. Sheath Material(LSZH):Accepted/ Not Accepted	
			11. ROHS/ELV(Compliant): Accepted/ Not Accepted	
16	UTP CAT6 Patch Cords (2M)		1. Type(As per technical specification point no. 1):Accepted/ Not Accepted	
			2. Conductor (23/24 AWG stranded copper wire):Accepted/ Not Accepted	
			3. Length (2 Meter):Accepted/ Not Accepted	
			4. RJ45 plug and boot material(Clear polycarbonate):Accepted/ Not Accepted	
			5. Outer Sheath(LS0H):Accepted/ Not Accepted	
			6. RJ45 plug dimensions compliant with ISO/IEC 60603-7-4 and FCC 47 Part 68: Accepted/ Not Accepted	
			7. Contact material(0.35mm thick copper alloy):Accepted/ Not Accepted	
			8. MIN operating life(minimum 750 insertion cycles):Accepted/ Not Accepted	
			10. Sheath Material(LSZH):Accepted/ Not Accepted	
			11. ROHS/ELV(Compliant): Accepted/ Not Accepted	
17	UTP CAT6 Patch Cords (3M)		1. Type(As per technical specification point no. 1):Accepted/ Not Accepted	
			2. Conductor (23/24 AWG stranded copper wire):Accepted/ Not Accepted	
			3. Length (3 Meter):Accepted/ Not Accepted	
			4. RJ45 plug and boot material(Clear polycarbonate):Accepted/ Not Accepted	
			5. Outer Sheath(LS0H):Accepted/ Not Accepted	
			6. RJ45 plug dimensions compliant with ISO/IEC 60603-7-4 and FCC 47 Part 68: Accepted/ Not Accepted	
			7. Contact material(0.35mm thick copper alloy):Accepted/ Not Accepted	
			8. MIN operating life(minimum 750 insertion cycles):Accepted/ Not Accepted	
			10. Sheath Material(LSZH):Accepted/ Not Accepted	

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			11. ROHS/ELV(Compliant): Accepted/ Not Accepted	
18	Media Converter		1. SM Single Core SC Port Media Converter: Accepted/ Not Accepted	
			2. Single mode OFC to EJ45 Copper 1000BaseT Media Converter: Accepted/ Not Accepted	
			3. Wavelength:1310/1550 and 1550/1310 (BIDI WDM): Accepted/ Not Accepted	
19	Fiber Patch Cords		1. Type(SC to SC Duplex tuned Fiber Optic Patch Cord 3 Mtr, 9/125 Micron): Accepted/Not Accepted	
			2. Cable Sheath(LSZH):Accepted/Not Accepted	
			3. Cable Diameter(1.8 mm twin zip):Accepted/Not Accepted	
			4. Ferrule(Ceramic):Accepted/Not Accepted	
			5. Buffer (Tight buffered):Accepted/Not Accepted	
			6. Insertion Loss (MAX .3 db):Accepted/Not Accepted	
			7. Return Loss(> 45 db):Accepted/Not Accepted	
			8. Temperature Range (-10 Degree C to +60 Degree C):Accepted/Not Accepted	
			9. ROHS Compliant: Accepted/Not Accepted	
20	6 Core SM Fiber Cable		1. Type:	
			1.1 6-Core SM ARMOURED OPTICAL FIBRE CABLES:Accepted/Not Accepted	
			1.2 Central Loose Tube with jelly compound:Accepted/Not Accepted	
			1.3 High quality Electro Chromium Coated Corrugated Steel tape (ECCS):Accepted/Not Accepted	
			1.4 Armoured design with Music Quality Steel wire: Accepted/Not Accepted	
			2. Cable Sheath(HDFP / LSZH sheath):	
			3. International Specification(IEC 811-1, IEC 1034, IEC 754-1, IEC 60754-2 (EN 50267-2-2), IEC 60332-1-2, NES 713): Accepted/Not Accepted	

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Annexure-A(II)

OEM Authorization and Installation requirement :

Classification Group Based on Application	Items	QTY	UOM	OEM Authorization Requirement	Installation Requirement
Group 1 - Application Server	Application Server	1	Nos.	**Required**	Required
Group 2 - Network Rack and Network cables and rack accessories	42U Server Rack	1	Nos.	Required	Required
	65AH 12V Battery	3	Nos.		Required
	CAT6 RJ45 Keystone Jack	100	Nos.		
	6U Network Rack	6	Nos.	Required	
	24port Tooless Keystone Jack Patch Panel	4	Nos.		
	0.5 mm 2 Pair 90 Mtr PVC Unarmoured Telephone Cable	10	Box		
	0.5 mm 5 Pair PVC Unarmoured Telephone Cable	500	Mtr		
	3 Feet Patch Cord cat 6	100	Nos.		
	7 Feet Patch Cord cat 6	100	Nos.		
	10 Feet Patch Cord cat 6	50	Nos.		
	SC-SC Optic Fiber Patch Cord Optical 3 Mtr	20	Nos.		
	6 Core SM Fiber Cable	2000	Mtr		
Group 3- Network Switch, Network wireless Radio, Network media converter and cable	8 Port POE Network Switch	4	Nos.	Required	
	48 Port POE Network Switch Distribution Switch	1	Nos.	Required	Required
	24 Port POE Network Switch	4	Nos.	Required	
	STP Cat6 Cable (305Mtr/Box)	5	Nos.		
	UTP Cat6 Cable (305Mtr/Box)	5	Nos.		
	Point to Point wireless Radio 5Ghz	3	Pair	OEM Authorization Required	
	Media Converter	4	Pair		

Note:

1. Above Classification of items have been done based on device type uses.

2. Valid OEM Authorization Certificate is required for marked items mentioned in above table as per Pre-Qualification Criteria 5.1.

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Annexure- A (III)

TECHNO-COMMERCIAL PROPOSAL BID FORM
(To be Submitted on the Letter Head of Bidder)

Bidder's Techno-Commercial Proposal Ref. No.:

Bidder's Name & Address : Date:

Person to be contacted :
Designation :
Tel. No(s). :
Mobile No. :
Fax No(s). :
E-mail address:

To
Tender Committee,
HURL Sindri Project,
Old FCIL Office Complex,
Sindri, Dhanbad , PIN - 828122

Dear Sirs,

1.0 Having examined the Bidding Documents bearing No. HURL/Sindri/C&M/21-22/1071 Dated 17.11.2021, including its subsequent amendments and clarifications, if any, issued by Owner, the receipt of which is hereby acknowledged, we the undersigned, offer to complete the work under the above-named Package in full conformity with the said Bidding Documents and hereby furnish our Techno-Commercial Proposal.

2.0 We have understood the instructions and the terms & conditions mentioned in the Bidding Documents furnished by you and have thoroughly examined the specifications laid down by you in the Bidding Documents and are fully aware of the nature of consultancy services required.

Attachments to the Bid form (Techno-Commercial Bid):

In line with the requirement of the Bidding Documents we enclose herewith the following Attachments to the Bid Form (Techno-commercial) Bid:

a) Power of Attorney as per requirement mentioned in NIT.

b) Signed, Stamped and Scanned copy of proof for payment of Earnest Money Deposit (EMD) / MSE Certificate for exemption.

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c) OEM Authorization Certificate & Similar work experience Documents as required in accordance with Clause 5.1 & Clause 5.2 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document

d) Audited Annual Statements (Balance Sheet and Profit & Loss account statements) in accordance with Clause 5.3 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document

e) Signed, Stamped and Scanned copy of Company Registration certificate, GSTIN Registration, PAN Card, and other documents in accordance with Clause 5.4 of Qualifying Requirements / Pre-Qualification Criteria (PQC) of tender document

f) Signed, Stamped and Scanned copy of last three financial year ITR

g) Signed and stamped copy of each page of tender documents as a token of acceptance indicating read, understood and accepted the Terms & Conditions mentioned in tender documents.

h) Signed, Stamped and Completely filled Annexure-A(I) with confirmation of OEM Authorization as mentioned in Annexure A(II).

i) Signed, Stamped and Scanned copy of affidavit on company letter head as specified in Annexure B of tender document.

j) Signed, Stamped and Scanned copy of Tender Acceptance Letter as per Annexure-C & Letter of authorization to submit bid.

k) Signed, Stamped and Scanned copy of No deviation Certificate as per Annexure-D.

l) Signed, Stamped and Scanned copy of Certificate from CEO or Managing Director, in the format as enclosed as Annexure- E of Tender Document.

m) Signed, Stamped & Scanned copy of format For Electronics Payment as per Annexure-F

n) Any other document asked for in the Bidding Documents.

3.0 COMPLIANCE TO THE PROVISIONS OF THE BIDDING DOCUMENTS

3.1 We have read all the provisions of the Bidding Documents and confirm that notwithstanding anything stated elsewhere in our bid to the contrary, the provisions of the Bidding Documents, are acceptable to us and we further confirm that we have not taken any deviation to the provisions of the Bidding Documents anywhere in our bid.

We have furnished our compliance to the provisions of the Bidding Documents and its subsequent Amendment(s)/Clarification(s)/Addenda/Errata by furnishing "NO DEVIATION CERTIFICATE".

We hereby confirm that any deviation, variation or additional condition etc. or any mention, contrary to the provisions of Bidding Documents and its subsequent Amendment(s)/Clarification(s)/ Addenda/Errata (if any) found anywhere in our bid

proposal, implicit or explicit shall stand unconditionally withdrawn, without any cost implication whatsoever to the Owner, failing which our bid security shall be forfeited.

3.2 We further declare that additional conditions, variations, deviations, if any, found in the bid, shall not be given effect to.

4.0 We undertake, if our bid is accepted, to commence the work immediately upon your Notification of Award to us.

5.0 We agree to abide by this bid for a period 120 days from the date of opening of Techno-Commercial bids as stipulated in the Bidding Documents and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

6.0 We understand that you are not bound to accept our bid or any other bid you may receive.

7.0 We, hereby, declare that only the persons or firms interested in this proposal as principals are named here and that no other persons or firms other than those mentioned herein have any interest in this proposal or in the Contract to be entered into, if the award is made on us, that this proposal is made without any connection with any other person, firm or party likewise submitting a proposal, is in all respects for and in good faith, without collusion or fraud.

8.0 We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

9.0 We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,

(Signature)

Date

Place

Name & Designation.....

Name of the Company.....

(Seal of Company) .....

`Sign & Stamp of Bidder

Annexure-B

TO BE SUBMITTED ON COMPANY LETTER HEAD DULY SIGNED AND SEALED

AFFIDAVIT

I, _____, being proprietor / partner / Director /authorized representative of M/s _____, do hereby solemnly affirm and state as under:

1. I, am submitting the tender for **"Supply & Installation of Application Server and Network Devices at HURL, Sindri project"** against Tender Notice Number _____dated_____.
2. That I/ we/ our partners/ directors do not have any relative working in Hindustan Urvarak & Rasayan Limited.
3. That I/we hereby declare that M/s_____is neither put on Holiday nor Black-listed by any Government/ PSU/ Private firm or Financial Institution.
4. That all information furnished by me/ us in respect of fulfilment of eligibility criteria and information given in this tender is complete, correct and true.
5. That all documents / credentials submitting along with this tender are genuine, authentic, true and valid.
6. That the price bid is unconditional.
7. That I/ we shall comply with all the statutory provisions as laid down under various Labour Laws/ Acts/ Rules like minimum wages, Provident Fund, ESI, Bonus, Gratuity, Contract Labour Act and other Labour Laws/ Acts/ Rules in force from time to time at my/ our own cost.
8. I/We indemnify hereby HURL against all repercussions arising out of non- compliance of the foregoing in any case.
9. That if any information or document submitted is found to be false/ incorrect, the Department may cancel my/ our tender and action as deemed fit may be taken against me/ us including termination of the contract, forfeiture of all dues including earnest money and blacklisting of me/ our firm and all partners of the firm etc.

Deponent

Verification

I, deponent, above named do hereby verify that contents of the above affidavit are true and correct to the best of my knowledge and belief.

Deponent

`Sign & Stamp of Bidder

Annexure-C

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,
Tender Committee, Sindri Project, HURL

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: **HURL/Sindri/C&M/21-22/1071 Dated: - 17.11.2021**

Name of Tender / Work: **- "Supply & Installation of Application Server and Network Devices at HURL, Sindri project"**

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:
   _____

   as per your advertisement, given in the above-mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents to (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract , without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

`Sign & Stamp of Bidder

Annexure-D

NO DEVIATION CERTIFICATE

Bidder's Name & Address :	To, BUH, HURL Sindri Project, Old FCIL Office Complex, Sindri Project, HURL Sindri, Dhanbad, Jharkhand, 828122

1. With reference to our Bid (Reference No HURL/Sindri/C&M/21-22/1071 Dated: - 17.11.2021) for Supply & Installation of Application Server and Network Devices at HURL, Sindri project" we hereby confirm that we comply with all terms, conditions and specifications of the Bidding Documents read in conjunction with Amendments(s) / Clarification(s) / Addenda / Errata (if any) issued by the Owner prior to opening of Techno – Commercial Bids and the same has been taken into consideration while making our Techno – Commercial Bid & Price Bid and we declare that we have not taken any deviation / exceptions in this regards.
2. We further confirm that any deviation variation or additional conditions etc or any mention, contrary to the Bidding Documents and its Amendments(s) / Clarification(s) / Addenda / Errata (if any) as mentioned at 1.0 above found anywhere in our Techno – Commercial Bid and / or price Bid, implicit or explicit, shall stand unconditionally withdrawn, without any cost implication whatsoever to the Owner, failing which the Bid Security shall be forfeited.

For and on behalf of : ……..……

Stamp & Signature : ……

Name : ……

Designation : ……

Date : ……

`Sign & Stamp of Bidder

Annexure-E

PROFORMA OF CERTIFICATE

(TO BE SUBMITTED BY CEO/MD OF THE BIDDING COMPANY ON COMPANY'S LETTER HEAD IN ORIGINAL)

Ref. : Date:

To
BUH, HURL Sindri Project,
Hindustan Urvarak & Rasayan Limited,
(A JV of CIL, NTPC, IOCL, FCIL & HFCL)
Old FCIL Office Complex, PO- Sindri
Dhanbad, Jharkhand PIN – 828122

Sub:

Bidding Doc. No.

Dear Sir,

I, Mr. ..... (CEO of the company / MD of the company), hereby certify that the data and documents furnished by M/s……. in respect of Techno-Commercial Evaluation are true and correct including the contents thereof.

I further, confirm that if at any point of time the declarations given in bid are found to be incorrect, HURL shall have the full right to terminate the contract and take any action as per provisions of contract including forfeiture of EMD/Security Deposit.

Yours faithfully,

(Signature)

Date Name & Designation.....

Place Name of the Company.....

(Seal of Company) .....

`Sign & Stamp of Bidder

Annexure-F

Format For Electronics Payment

Bidders are required to submit the following details on the company's letter head for online transfer of amount to their account:

1.	Contractor Name / Company Name	
	Address:	
	Phone No.	
	E-mail ID	
2. a	Name of the Bank	
b.	Address of the Branch	
c.	Telephone No.	
d.	9 Digit Code number of the Bank and Branch appearing on the MICR Cheque issued by the Bank	
e.	11 Digit NEFT/IFSC Code of the Bank Branch	
f.	Account Type (SB/CC/CA)	
g.	Bank Account No.(as appearing on the Cheque)	
h.	Permanent Account Number (PAN) Under Income Tax Act.	
I	GST Registration Number	
j.	Name of Authorized Signatory	
k.	Contact Person Name	

We hereby declare that the particulars given above are correct and complete

Name
Designation
Date

Authorized signatory of the bidder

`Sign & Stamp of Bidder