

Corrigendum No:

## BIHAR EDUCATION PROJECT COUNCIL

Shiksha Bhawan, Saidpur, Patna - 4.

Subject : - Bidders Request for Clarification on Pre-Bid Queries

Annexure-I

Reference No : - BEPC/VSK/2025-26/2424 Dated 04-06-2025

Name of Work : - Request for Proposal for Selection of System Integrator for Implementation of Vidya Samiksha Kendra (VSK) in the State of Bihar

| Sl. | Firm / Agency                          | Bidding Documents Reference (Number/ Page No.) | Content of RFP requiring Clarification   | Points of Clarification Required   | Clarifications  |
|-----|--|--|--|--|---|
| 1   | WE Excel Software Private Limited      | 14   | The bidder must possess a valid ISO 9001:2015, ISO 14001: 2015, ISO 27001:2011, ISO/IEC 20000-1:2011 as on bid calling date  | ISO 14001:2015 is an Environmental Management System (EMS) certification, which is typically applicable to OEMs or manufacturing organizations whose operations have a direct environmental impact. As a bidder providing services/integration (and not an OEM), this certification is not applicable to us. We request you to kindly revise this clause to Bidder/OEM must possess a valid ISO 14001:2015 certificate.  | Please read as- The bidder must possess a valid ISO 9001:2015, ISO 27001:2011, ISO/IEC 20000-1:2011 as on bid submission date |
|     |  | 18   | Bidder (or Lead Bidder) OR Consortium Partner (in case applicable) must have Experience with Implementation/ Deployment of VSK (Vidya Samiksha Kendra) Software Tool Kit (Software Application) projects. The Software Tool Kit being implemented/deployed should be developed by the Bidder (i.e., the Bidder (or Consortium Partner) should have developed the Software Tool Kit or Application in-house and Not Subcontracted it or Developed in Consortium/ JV/Partnership with another entity or company). Bidder should provide MOUs/Contract signed/ Work Orders reg. such projects. Only the MOUs/ Contract signed/ Work Orders/Experience Letter where the Bidder has directly implemented the project (and Not Sub-Contracted or Joint-Ventured for execution of work) shall be considered for this purpose.<br><br>3 VSK project: 5 Marks<br><br>≥ 4 & < 6 VSK projects: 10 Marks<br><br>6 or more VSK projects: 20 Marks | VSK (Vidya Samiksha Kendra) technology is a recent initiative and not many projects have been implemented yet. This clause creates a bias and limits fair competition. We kindly request to remove this clause to allow broader participation.   | As per RFP  |
|     |  | 19   | The Bidder (or Lead Bidder) OR consortium partner (in case applicable) should have received work orders from Centre/State Govt. or PSU in the last 3 financial years (i.e., 2021-22, 2022-23, 2023-24) till the bid submission date, for setup of Vidya Samiksha Kendra (VSK) on a turnkey basis.<br><br>2 Projects: 05 Marks<br><br>≥ 3 & 5 projects.: 10 Marks<br><br>≥ 5 projects.: 20 Marks  | VSK (Vidya Samiksha Kendra) projects are a recent initiative, no projects have been awarded so far in the last 3 financial years. This clause creates a bias and restricts fair competition. We request that this clause be removed to allow wider participation.  | As per RFP  |
|     |  | 15   | Bidder needs to deposit the EMD of Rs. 5,00,000 (Rupees Five Lakh Only) either in the form of Bank Guarantee in favour of Director BEPC payable at Patna or payable online while submitting tender on Tender portal. Bids submitted without adequate EMD will be liable for rejection.   | We request exemption from submission of EMD for eligible MSME bidders.   | As per RFP  |
| 2   | Dreamline Technologies Private Limited | Page No: 18, Pont no 3                         | Bidder (or Lead Bidder) OR Consortium Partner (in case applicable) must have Experience with Implementation/ Deployment of VSK (Vidya Samiksha Kendra) Software Tool Kit (Software Application) projects. The Software Tool Kit being implemented/ deployed should be developed by the Bidder (i.e., the Bidder (or Consortium Partner) should have developed the Software Tool Kit or Application in-house and Not Subcontracted it or Developed in Consortium/ JV/ Partnership with another entity or company). Bidder should provide MOUs/ Contract signed/ Work Orders reg. such projects. Only the MOUs/ Contract signed/ Work Orders/Experience Letter where the Bidder has directly implemented the project (and Not Sub-Contracted or JointVentured for execution of work) shall be considered for this purpose.<br>3 VSK project: 5 Marks<br>≥ 4 & < 6 VSK project: 10 Marks<br>6 or more VSK project: 20                   | Kindly consider IT project experience and amendment in marks:<br>3 VSK/IT-(software/PMU) project: 5 marks<br>≥ 4 & 6 VSK/IT-(software/PMU) project: 10 marks<br>≥ 6 or more VSK/IT-(software/PMU) project: 20 marks  | As per RFP  |
|     |  | Page no 19 , point no 5                        | The Bidder (or Lead Bidder) OR consortium partner (in case applicable) should have received work orders from Centre/ State Govt. or PSU in the last 3 financial years (i.e., 2021-22, 2022-23, 2023-24) till the bid submission date, for setup of Vidya Samiksha Kendra (VSK) on a turnkey basis.<br>2 Projects: 05 Marks ≥ 3 & < 5 projects.: 10 Marks ≥ 5 projects.: 20 Marks   | Kindly consider work experience for Project implementation of scheme monitoring (PMU) IT project experience and amendment in marks condition :<br>2 Projects: 05 Marks ≥ 3 & < 5 projects.: 10 Marks ≥ 5 projects.: 20 Marks   | As per RFP  |
|     | Vinod Sharma                           |  |  | In Section 3.5 "Manpower Requirement" on Page 09 of the Tender Document, where the number of Manpower Required is (a) Project Manager - 01 - Onsite (b) Product Manager - 02 - Onsite (c) IT Support Engineer - 01 - Onsite (d) Data Analyst - 03 - Onsite Changes Requested in Tender Document: Sir, we would like to suggest that the "Manpower Requirement" should be altered as per below: 1. Project Manager - 01 - Onsite 2. Product Manager - 01 - OFFSITE 3. IT Support Engineer - 01 - OFFSITE<br>QUERY NO. 2 In Section 5.1 "Basic Eligibility Criteria" on Page 14 Sub Section 9 "Certificates", the requirement for ISO 14001:2015 should be removed as its not Directly linked with the Scope of Work of this RFP. If it cannot be removed, then it should be allowed for the Bidder/s to possess the ISO 14001:2015 Certificate as on "Bid Submission Date". | As per RFP<br><br>Addressed as above.   |



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Name of Work : - Request for Proposal for Selection of System Integrator for Implementation of Vidya Samiksha Kendra (VSK) in the State of Bihar

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|-----|---|---|---|---|---|
| 3   |   |   |   | <p>QUERY NO. 3 In Section 4.1 "Purpose of Bid Document" on Page 09 , we request that in view of nature of solution or scope of work being Heterogeneous where it includes hardware and software components both, we request you to consider the "Solution Partner" should be permitted to work with minimum Three Bidders as a Solution Partner OEM and be allowed to provide Authorizations accordingly. This will help to get more competition among the OEMs of various components.</p> <p>QUERY NO. 4 We also request you to mandate for a Signed Authorization from the hardware OEM for every bid submission where it should mention the compliance and the support during the solution deployment. This would be essential for smooth implementation of the project.</p> | <p>Agreed; Technology Solution Provider is allowed to Participate through maximum Three Bidder. In this case, Technology Solution Provider should be allowed to consortium Agremnet with Maximum Three Different bidders</p> <p>OEM of Computer and Interactive Flat Panel Should Provide the Ink signed MAF with Compliance sheets and literature and OEM should be Presence in In India for the last 10 years</p>   |
| 4   | Microsoft Corporation India Private Limited | Section 5, Eligibility Criteria, 5.1, Page number 11      | Missing Cloud Service Provider Criteria | CSP shall have published on its own public facing website cloud services' rate for all services available in India in INR, service level agreements (SLAs), dashboard live status of cloud services health across global data center and outages details (if any) with RCA.   | As per RFP  |
|     |   | Section 5, Eligibility Criteria, 5.1, Page number 11      | Missing Cloud Service Provider Criteria | The CSP must have at-least two MeitY empaneled data centers in different cities of different geographical locations in India to configure DC and DR services. The data centers should be at-least 100 KMs away as per MeitY guidelines  | As per RFP  |
|     |   | Section 5, Eligibility Criteria, 5.1, Page number 11      | Missing Cloud Service Provider Criteria | The CSP must have at-least two MeitY empaneled data centers in different cities of different geographical locations in India to configure DC and DR services. The data centers should be at-least 100 KMs away as per MeitY guidelines  | As per RFP  |
|     |   | Section 5, Eligibility Criteria, 5.1, Page number 11      | Missing Cloud Service Provider Criteria | The Bidder should submit MAF from Cloud Service Provider OEM  | As per RFP  |
|     |   | Section 3.3, Cloud Infrastructure Service, Page number 8  | Add additional service                  | Ability to ask questions using Natural Language processing or conversational language   | As per RFP  |
|     |   | Annexure 4, Point 2. Work Station Specifications, Page 36 | Certifications: Microsoft Windows 11    | Bidder should submit certified Microsoft literature and certification / MAF along with bidder declaration with ink based signatures from local representative from state of Bihar   | Addressed as above.   |
|     |   |   |   | The OEM for Workstations, Printers and 75 IFP must provide a tender-specific Manufacturer Authorization Form (MAF), Warranty Confirmation, and onsite technical support. Compliance documents and product literature should bear an in signature from a local representative.   | Addressed as above.   |
|     |   |   |   | Annexure-C appears highly specific and restrictive to certain companies. Given the variations in technology across service providers, we request the generalization of resource requirements and allowance for hybrid work arrangements for one product manager.  | As per RFP  |
|     |   |   |   | Solution providers should be permitted to collaborate with more than three bidders to enhance price competition.  | Addressed as above.   |
|     |   |   |   | Kindly consider the top three IDC OEMs to ensure superior quality and durability.   | As per RFP  |
| 5   | Daksh Consultancy                           |   |   | The Bidder's experience in delivering technical resources for IT and telecom projects within government departments should be a qualifying criterion.   | Please read as: Bidder or consortium partner must have Executed (or is Executing) at-least 2 Projects in -<br>a.Vidya Samiksha Kendra Command and Control Center,<br>b.or<br>c.IT Consulting/ Implementation Projects for any State/ Central Govt Departments/ PSU in India for a minimum order value of Rs. 1 Cr. each<br>or<br>Bidder should have experience in Establishing Project Monitoring Unit or have been providing technical resources to cater IT/Software/ Communications/ITES needs of minimum 2 Departments of State/ Central Govts. |
|     |   |   |   | OEM Document Submission: OEMs for Workstations, Printers, and 75" IFPs are required to provide tender-specific MAFs, warranty confirmations, technical compliance documents, and onsite support letters. Kindly confirm whether these documents must be signed only by a local representative or if signatures from regional/national-level signatories are acceptable.   | Addressed as above.   |
|     |   |   |   | Annexure-C Specification Flexibility: The technical specifications outlined in Annexure-C appear highly specific. We request that they be revised to accommodate configurations from different service providers, including allowing hybrid work arrangements for one Product Manager.  | Resources must meet the minimum Qualification of 3.5 Section of page 9  |
|     |   |   |   | Bidding Flexibility: To ensure competitive pricing and wider participation, we request that solution providers be allowed to associate with more than three bidders.  | Addressed as above.   |
|     |   |   |   | OEM Quality Preference: We suggest giving preference to the top three IDC-ranked OEMs to ensure the delivery of high-quality, durable equipment.  | As per RFP  |
|     |   |   |   | Relevant Experience: Bidders with prior experience in executing similar IT/Telecom projects for government departments should be given additional technical weightage.  | As per RFP  |



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| 6   | Frazen Technologies Pvt. Ltd                           |   |  | Cloud OEM MAF & Price Disclosure: It is requested that Cloud OEMs be mandated to issue tender-specific MAFs, and the pricing be made publicly available in INR on their official websites to maintain transparency.  | As per RFP  |
|     |  |   |  | OEMs of Workstations, Printers, and 75 IFP must provide tender- specific MAF, Warranty Confirmation, onsite support, and ink-signed technical compliance documents.  | Addressed as above.   |
|     |  |   |  | Allow a hybrid work model for one product manager and revise Annexure-C to ensure fairness across service providers.   | As per RFP  |
|     |  |   |  | Permit solution providers to collaborate with more than three bidders to increase price competition.   | Addressed as above.   |
|     |  |   |  | Ensure consideration of the top three IDC OEMs for quality and durability.   | As per RFP  |
|     |  |   |  | Preference should be given to bidders experienced in IT/ Telecom project delivery for government departments   | Addressed as above.   |
| 7   | Acynx Private Limited,                                 |   |  | Request to consider the company certifications as on bid submission date with latest standards too   | Addressed as above.   |
|     |  |   |  | Request to also include the Tender Specific MAF from Cloud OEM with necessary support during integrations  | As per RFP  |
|     |  |   |  | Require OEMs of Workstations, Printers, and 75" IFP to submit tender-specific MAF, Warranty Confirmation, onsite support, and compliance documentation with an ink signature from the local representative.  | Addressed as above.   |
|     |  |   |  | Annexure-C should be revised to eliminate restrictive specifications favoring certain companies. A hybrid work model should be permitted for one product manager.  | Addressed as above.   |
|     |  |   |  | To make sure the Transparency in Cloud OEM, request you to incorporate the MAF from OEM with Mentioning OEM price iss in Rupees and will not vary with Dollar/ Other Prices.   | As per RFP  |
|     |  |   |  | Solution providers should have the flexibility to work with more than three bidders to promote healthy price competition   | Addressed as above.   |
| 8   | Schoolnet India Limited                                | Page no 8, Clause 46. Implementation of dashboard for Vidya Samiksha Kendra<br>Pg no -7, Scope of Work                        | The design and development of 10 dashbaords covering some of the critical programs of Samagra Siksha . The responsibility of providing data for the dashbaords shall rest with BEPC and should not be included in the scope of work of the successful bidder<br>Scope of Work<br>Training and Capacity Building<br>Helpdesk and Support Services | We request to the department to kindly specify Are there existing dashboards that require migration or enhancement?  | Nothing such yet to be migrated.                            |
|     |  |   |  | We would request the Departmnt to clarify Are there any legacy or third-party applications currently in use that must be integrated or upgraded? If so, please share details (tech stack, code access, licensing, APIs).   | Yes, Available with the Department, needs to be integrated. |
|     |  |   |  | What is the estimated number of users to be trained across each administrative level?  | As per RFP  |
|     |  |   |  | Are training venues and logistics (travel, boarding, infrastructure) to be arranged by the Department or the bidder?   |   |
|     |  |   |  | What is the expected training format—onsite, hybrid, or remote?  |   |
|     |  |   |  | Is there a requirement for setting up a 24x7 helpdesk or call center for schools/users?  | Nothing such Requirements.                                  |
| 9   | Aggressive Electronics Manufacturing Services Pvt. Ltd | Manageability Utility (Page 36, S. No. 18)<br>Clause 1.4, Pg 8<br>Clause 2 - Display Specifications (Page 36, S. No. 20 & 21) | Implementation of Dashbaords for VSK   | If yes, what is the expected volume of queries and languages to be supported?  | Yes to be developed by the Bidder.                          |
|     |  |   |  | Are there specific assessment frameworks (NAS, SLAS, FLN indicators) to which the dashboard should align?Will the Department provide access to learning outcome mapping for content or do we need to develop it?   |   |
|     |  |   |  | Clause Description: Integrated utility that enables hardware-level testing outside the operating system.   | As per RFP  |
|     |  |   |  | Alternative Suggestion for Clause 1 o Offer an advanced Endpoint Security & Remote Management Software that:<br>✓ Monitors hardware and software ✓ Provides real-time alerts and diagnostics ✓ Offers remote manageability and enhanced security o This software operates within the OS environment, offering practical manageability without limiting the competition to only 3-4 MNCs.                                       | As per RFP  |
|     |  |   |  | Request for Clause 1 Modification<br>Request:<br>Replace "Integrated utility for hardware testing outside OS" with:<br>✓ "Endpoint Security & Manageability Software capable of monitoring hardware and software within OS."<br>Justification:<br>o Promotes inclusive participation of Indian OEMs<br>o Encourages domestic technology development<br>o Delivers similar functionality via more flexible and accessible tools | As per RFP  |
|     |  |   |  | Clause Description: 19.5" Monitor, 1600x900 resolution, VGA & HDMI, TCO 8.0 Certified Issues Identified: o 19.5" Monitors are approaching End-of-Life; component availability during warranty will be problematic. o TCO Certification is predominantly available only on imported monitors. o BIS Certification is mandatory in India and already assures safety and quality.   | As per RFP  |
|     |  |   |  | Request for Clause 2 Modification<br>Request:<br>o Change monitor specification to 21.5" Full HD (1920x1080)<br>o Make TCO 8.0 certification optional, or accept BIS-certified monitors for Indian manufacturers<br>Justification:<br>o 21.5" monitors are readily available and well-supported for warranty and spares.   | As per RFP  |
|     |  |   |  | BIS certification is mandatory and ensures safety, EMI/EMC compliance, and quality for Indian monitors.  |   |



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|     |  |  |  | Support for Make in India<br><ul style="list-style-type: none"> <li>□ The requested changes support the Government of India's Make in India initiative</li> <li>□ Promote a level playing field for Indian manufacturers</li> <li>□ Maintain product quality, warranty support, and manageability without compromising compliance</li> </ul> Conclusion & Request<br>We respectfully request your kind consideration for the following:<br>1. Remove Clause 18 or replace it with OS-level Endpoint Security Software.<br>2. Update Clause 20 to 21.5" Monitor with BIS Certification as an accepted standard.  | As per RFP   |
| 10  | GIGA INNOVATIONS TECHNOLOGIES            |  |  | The OEM must provide relevant documents, compliance confirmations, and support with an authorized ink signature<br>Generalize Annexure-C Specifications to accommodate different service providers and allow hybrid work resources for a product manager<br>Permit collaboration with multiple bidders beyond three for price competitiveness<br>Consider top-tier IDC OEMs to guarantee durability and quality<br>Request to consider 27001:2022, 20000-1:2018 also as on bid submission date<br>Prioritize bidders with a strong track record in IT/Telecom Projects for government departments.<br>Request to also include the Tender Specific MAF from Cloud OEM with necessary support during Integrations   | Addressed as above.<br>Addressed as above.<br>Addressed as above.<br>As per RFP<br>As per RFP<br>As per RFP<br>As per RFP  |
| 11  | Appu Enterprises, Patna                  | Page No 7, 3.1 Procurement and Installation of IT Hardware / Video Wall Solution, S.No 1<br>Page No 8, 3.1 Procurement and Installation of IT Hardware /10 KVA UPS (Three Phase), S.No 7<br>Page No 8, 3.1 Procurement and Installation of IT Hardware /TV Unit (75"), S.No 9<br>Page No 11, S.No 1 Legal Entity | Video Wall -4*3 Matrix<br>10 KVA UPS (Three Phase)<br>TV Unit (75")<br>The Bidder and Consortium partner should be a company Registered under the Companies Act 1956/2013 and should have more than 5 years of existence in India. | Our query of Concern is that the technical Specifications of the Video Wall has not been mentioned the RFP Documents. If it is already defined in terms of its specifications as per the requirements then kindly it should be made available.<br>Our query of Concern is that the technical Specifications of the UPS has not been mentioned in the RFP Documents. If it is already defined as per the requirements then kindly it should be made available.<br>In the Product detailed specification mentioned in the RFP is concerned to Panel while in the scope of work TV Unit (75") is mentioned. Our query of concern is to consider Panel specification or TV Unit? Kindly have a clarity on this.<br>As per CVC circular no DIG/VIG./20/2017 dated 03/10/2017 all the legal registered entity can participate in tender. Hence, you are requested to amend and allow all the legal Entity like Companies /Agencies /Firm who full fill all others your term conditions. | Revised Technical Specification is at <u>Annexure-II</u><br>Revised Technical Specification is at <u>Annexure-II</u><br>It is 75" Interactive Flat Panel (IFP)<br>As per RFP |
| 12  | GLOBUS INFORMATICS INDIA PRIVATE LIMITED |  |  | The OEM for Workstations, Printers, and 75" IFP must provide a tender-specific Manufacturer Authorization Form (MAF), Warranty Confirmation, and onsite technical support. Compliance documents and product literature should bear an ink signature from a local representative.<br>Annexure-C appears highly specific and restrictive to certain companies. Given the variations in technology across service providers, we request the generalization of resource requirements and allowance for hybrid work arrangements for one product manager.<br>Solution providers should be permitted to collaborate with more than three bidders to enhance price competition.<br>Kindly consider the top three IDC OEMs to ensure superior quality and durability.<br>The bidder's experience in delivering technical resources for IT and telecom projects within government departments should be a qualifying criterion.  | Addressed as above.<br>As per RFP<br>Addressed as above.<br>Addressed as above.<br>As per RFP  |
| 13  | Mindrops Solutions                       |  |  | Request you to kindly share sources and format of data that needs to be shown on the dashboard<br>Request you to kindly share the frequency at which the data will be sent to the dashboard- hourly, daily, weekly, monthly<br>Request you to kindly share size of the data that needs to be shown on the dashboard.<br>Can we use cloud infrastructure like AWS or Azure to host the entire application.   | Will be shared after execution of agreement with selected bidder<br>Addressed as above.<br>Addressed as above.<br>As per RFP   |



**Annexure-II: Technical Specifications after Virtual Pre-Bid meeting dated 10-06-2025**

| #                             | Items   | Description   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
|-------------------------------|---|---|--|----------------|----------------|---------------|----------|-------|----------------------------------|---------------------|-------------|-------------|------------|--------------|--------------------|-------------------------------|--|---------------|---------------|---------|---------|--------------------|------|--------------------|-----------------------|--------------------|------------------|-----------------|--------------|-------|-------------------------|---------------------------------------|--------------------------|-----|---------|--|-----------------|---------|------|---|---------------------|----------|--------------------------|---|--------------------------|--------|------------------------|--|-------|---------|------------|---|---------------|---|
| 1.                            | Video Wall - 4*3 Matrix   | Panel Size 55", 4x3 Display full HD, 300 nits or high, Contrast Ratio 1100:1 or better, ports for in & out, 2 HDMI port, Operation hours 16*7 or better.<br><b>Warranty:</b> 3 years onsite comprehensive Warranty<br>*These are tentative and as per Dash boards and Room size availability the Specification will be finalized at the time of contract agreement.   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| 2.                            | 10 KVA UPS (Three Phase)  | <table><tr><td>Rectifier Type</td><td>IGBT rectifier</td></tr><tr><td>Input Voltage</td><td>400 V AC</td></tr><tr><td>Phase</td><td>Three Phase, Neutral with Ground</td></tr><tr><td>Input Voltage Range</td><td>340-460V AC</td></tr><tr><td>Freq. Range</td><td>45 – 55 Hz</td></tr><tr><td>Power Factor</td><td>≥ 0.9 at full Load</td></tr><tr><td colspan="2">Output Ratings (Single Phase)</td></tr><tr><td>Inverter Type</td><td>IGBT Inverter</td></tr><tr><td>Voltage</td><td>230V AC</td></tr><tr><td>Voltage Regulation</td><td>± 3%</td></tr><tr><td rowspan="2">Voltage Distortion</td><td>≤ 5% (nonlinear load)</td></tr><tr><td>≤ 2% (linear load)</td></tr><tr><td>Output Frequency</td><td>50 Hz ± 0.125Hz</td></tr><tr><td>Power Factor</td><td>&gt; 0.8</td></tr><tr><td>Communication Interface</td><td>LAN Interface for IP-based Monitoring</td></tr><tr><td>Short circuit protection</td><td>Yes</td></tr><tr><td colspan="2">Battery</td></tr><tr><td>Battery Voltage</td><td>240V DC</td></tr><tr><td>Type</td><td>Sealed Maintenance Free (SMF) batteries</td></tr><tr><td>Number of Batteries</td><td>65/70 AH</td></tr><tr><td>Separate Battery Cabinet</td><td>To be provided, with adequate ventilation</td></tr><tr><td>Backup Time on Full Load</td><td>1 Hour</td></tr></table> <table><tr><td colspan="2"><b>Other Parameter</b></td></tr><tr><td>Noise</td><td>≤ 55 db</td></tr><tr><td>Indication</td><td>Mains ON, Inverter ON/ OFF/ Faulty, Battery Level, Static Bypass ON, Load Level, Over Temperature</td></tr><tr><td>Audible Alarm</td><td>Mains Failure Alarm, Low Battery Alarm, Overload and Load on Bypass</td></tr></table> |  | Rectifier Type | IGBT rectifier | Input Voltage | 400 V AC | Phase | Three Phase, Neutral with Ground | Input Voltage Range | 340-460V AC | Freq. Range | 45 – 55 Hz | Power Factor | ≥ 0.9 at full Load | Output Ratings (Single Phase) |  | Inverter Type | IGBT Inverter | Voltage | 230V AC | Voltage Regulation | ± 3% | Voltage Distortion | ≤ 5% (nonlinear load) | ≤ 2% (linear load) | Output Frequency | 50 Hz ± 0.125Hz | Power Factor | > 0.8 | Communication Interface | LAN Interface for IP-based Monitoring | Short circuit protection | Yes | Battery |  | Battery Voltage | 240V DC | Type | Sealed Maintenance Free (SMF) batteries | Number of Batteries | 65/70 AH | Separate Battery Cabinet | To be provided, with adequate ventilation | Backup Time on Full Load | 1 Hour | <b>Other Parameter</b> |  | Noise | ≤ 55 db | Indication | Mains ON, Inverter ON/ OFF/ Faulty, Battery Level, Static Bypass ON, Load Level, Over Temperature | Audible Alarm | Mains Failure Alarm, Low Battery Alarm, Overload and Load on Bypass |
| Rectifier Type                | IGBT rectifier  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Input Voltage                 | 400 V AC  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Phase                         | Three Phase, Neutral with Ground  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Input Voltage Range           | 340-460V AC   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Freq. Range                   | 45 – 55 Hz  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Power Factor                  | ≥ 0.9 at full Load  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Output Ratings (Single Phase) |   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Inverter Type                 | IGBT Inverter   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Voltage                       | 230V AC   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Voltage Regulation            | ± 3%  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Voltage Distortion            | ≤ 5% (nonlinear load)   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
|                               | ≤ 2% (linear load)  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Output Frequency              | 50 Hz ± 0.125Hz   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Power Factor                  | > 0.8   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Communication Interface       | LAN Interface for IP-based Monitoring   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Short circuit protection      | Yes   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Battery                       |   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Battery Voltage               | 240V DC   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Type                          | Sealed Maintenance Free (SMF) batteries   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Number of Batteries           | 65/70 AH  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Separate Battery Cabinet      | To be provided, with adequate ventilation   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Backup Time on Full Load      | 1 Hour  |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| <b>Other Parameter</b>        |   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Noise                         | ≤ 55 db   |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Indication                    | Mains ON, Inverter ON/ OFF/ Faulty, Battery Level, Static Bypass ON, Load Level, Over Temperature |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |
| Audible Alarm                 | Mains Failure Alarm, Low Battery Alarm, Overload and Load on Bypass                               |   |  |                |                |               |          |       |                                  |                     |             |             |            |              |                    |                               |  |               |               |         |         |                    |      |                    |                       |                    |                  |                 |              |       |                         |                                       |                          |     |         |  |                 |         |      |   |                     |          |                          |   |                          |        |                        |  |       |         |            |   |               |   |



| # | Items | Description |   |
|---|-------|-------------|---|
|   |       |             | built in isolation transformer inbuilt at the output, Built-in Static bypass switch   |
|   |       | Protection  | Advanced Electronic protection for device safety backed with MCBs Soft start feature for rectifier and inverter, Battery current limiting protection, built in overload protection, output short -circuit protection, Parallel Redundant Configuration-Option Unitary/ Parallel |
|   |       |             | Redundant/ Redundant Hot standby  |
|   |       | Warranty    | 3 years onsite comprehensive OEM warranty.  |

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