RFP ENQ. No.- OCAC-NEGP-INFRA-0007-2021-22061 Dated 23.08.2022, for Selection of Agency for Implementation, Operations and Maintenance of OSWAN NOC

Important: The corrigendum is to be read, duly signed and submitted along with the RFP document published on the websites https://enivida.odisha.gov.in/, https://www.ocac.in/ and https://odisha.gov.in/ vide RFP Enquiry No.: - OCAC-NEGP-INFRA-0007-2021-22061 Dated 23/08/2022.

Sl. No	Page No.	Clause No	RFP Clause / Modified Clause as in Corrigendum-III	Query /Clarification	Suggestion if any	Modification/ Addendum/ Deletion/ Clarification
1.		Corrigendum-3 Sl No-111 Video Wall (3x2) 55" IPS	Technical Specification Mentioned in Revised RFP	The revised specification will increase the cost double the original specification of RFP. Also as per RFP the Video wall will be provided with 5Years Warranty. So requesting you kindly allow to quote on Orginal RFP Specification.		**Clause may be modified as:** The revised specification of Video Wall (3x2) 55" IPS is annexed as *Annexure-I*
2.		Corrigendum-3 Sl No-26	In-Row Precision Air Conditioner (3 X 35 Kw) with N+1 architecture	Kindly correct the Quantity mentioned in Annexure-12: PRICE BID FORMAT		**Revised Annexure-12: PRICE BID FORMAT will be uploaded.**
3.	34	6.2	Non-IT components from LT Panel, PDUs, PAC, etc., will be in N+1 mode.	As per requirement LT panel & PDUs shall be N+N configuration. Pls reconfirm required configuration		**Clarification:** As per bidder solution to meet the SLA as per RFP
4.	34	6.2	Automatic Transfer Switch ATS for single-power supply rack-mount equipment providing fail-safe redundancy has been considered	Pls confirm if SI have to provide STS/ATS. If yes pls confirm quantity for the same.		**Clarification:** As per bidder solution to meet the SLA as per RFP
5.	35	6.2	The civil, electrical and mechanical infrastructure will be built at the initial stage with raw power arrangement as per requirement to bear the 100% load of the OSWAN-NOC for 5 years	Pls provide power required in next 5 years for further planning		**Clarification:** Raw power and DG power will be provided by OCAC.

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6.	36	6.3	Approx. 540 sq. ft. of total space has been allocated for OSWAN-NOC Server farm. Design of civil layout has been done considering the allocated area.	Proposed area for server farm is not sufficient to accommodate intelligent/smart rack solution. We need approximately 650-700 sqft server farm area or we can propose racks with Inrow units. Pls confirm		**Clarification:** 540 sqft is available for OSWAN-NOC Server farm
7.	36	6.3	The bidder has to factor area for the BMS room and UPS Room, either in the area available for NOC or Help Desk.	Space for UPS and BMS room is not shown in RFP. Pls confirm location of BMS and UPS room		**Clarification:** Bidder has to visit the site for fare idea on the space availability for the project
8.	36	6.3	OSWAN-NOC Server farm will be allocated at Ground Floor, Help desk & OSWAN Official Area will be allocated at 1st Floor of OCAC Building.	Pls confirm furniture requried as per RFP layout for Help desk & OSWAN Official Area shall be supplied by SI or customer		**Clarification:** Under bidder's scope. Please go through the RFP document.
9.	36	6.3	Help desk & OSWAN Official Area will be allocated at 1st Floor of OCAC Building.	Pls provide floor loading capacity of 1st floor area.		**Clarification:** Bidder has to calculate the same.
10.	37	6.3	BharatNet DC was designed and built considering IBMS and Electrical components scalable for OSWAN NOC.	Pls provide existing SLD. Also share spare hard and soft points available in BMS system		**Clarification:** Bidder has to visit the site for fare idea on the space availability for the project
11.	37	6.3	Bidder is supposed to design safety security components in a manner so as only field devices needs to be procured and existing equipment like Fire alarm panel should be used.	Pls provide make and model of existing FAS.		**Clarification:** Bidder has to visit the site for fare idea on existing FAS
12.	39	6.4	Electrical System Work (Including electrical panel, Earthing, NOC internal electrical wiring, DB, Switchgears, Lighting & fixtures, etc for all NOC Areas, DC Areas, Helpdesk Areas & Office Areas)	Pls confirm if NOC area include only server farm, OSWAN office area and Help desk area.		**Clarification:** Please refer to the RFP and subsequent corrigendum.

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13.	42	6.6.1	Site Survey	Pls confirm if we can do site survey to understand site challenges.		**Clarification:** Bidder may visit the site before bid submission.
14.	43	6.6.3	The Portable Server Farm enclosure should have the features of a Tier – II Data centre.	As per SLA 99.982% uptime is asked in RFP but as per Tier-2 guidelines SLA shall be 99.741%. Pls confirm SLA to be followed		**Clarification:** SLA to be followed
15.	47	6.6.3	The Precision Air Conditioning shall be provided for the Portable Server Farm enclosure with 99.5% up time	Pls confirm SLA to be maintained for PAC.		**Clarification:** SLA to be followed
16.	99	11.2.30	The critical area of the MDC along with the Non-critical area needs to be under constant video surveillance.	Pls confirm if NOC area include only server farm, OSWAN office area and Help desk area. Pls confirm if any other area need to be monitored apart from NOC area.		**Clarification:** Please refer to the RFP and subsequent corrigendum.
17.	77	11.1. Tentative Bill of Materials for OSWAN-NOC (Point 12 & 13)	Windows Server OS Standard Edition (Latest version) as per Bidder's solution Linux Server OS Enterprise Edition (Latest version) as per Bidder's solution	On Windows server standard edition only 2 VMs can be created on a server, Clarity is required on no. of licenses or VMs, Also on Linux please specify the no. of licenses		**Clarification:** As per bidder solution
18.	173	11.3.10. Server (Point 7)	Two no's Dual FC Port 32 Gbps with four no's of 5mtr LC-LC Cable	Length of the cable is small which is 5 mts and with 6 servewr racks the length of the should me 25 mts FC cable		**Clarification:** **As per bidder solution**
19.	56	6.6.6. Shifting of Existing IT Infrastructure to proposed NOC	Connectivity between OSWAN Firewall and SECLAN Firewall.	More clarity is required on connectivity between OSWAN Firewall and SECLAN Firewall		**Clarification:** Bidder has to visit the site for fare idea
20.	52	6.6.5.1. Virtualization Functionality Requirement	Installation of server hypervisor, SDN & cloud management platform on 5 no of hosts.	Do we have provide SD-WAN software for network platform management and configuration		SD-WAN implementation scope is not mentioned in the RFP

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21.	52	6.6.5. Cloud Virtualisation	Installation of server hypervisor, SDN & cloud management platform on 5 no of hosts.	Clarification is required on cloud management platform		Given in RFP
22.	54	6.6.6. Shifting of Existing IT Infrastructure to proposed NOC:	The existing OSWAN Infrastructure at Bharat-Net NOC comprising of Racks, servers, switches, Gateways, Network elements, VC MCUs, Sensitive IT Equipment, Other IT hardware and associated software in the OCAC Building is to be shifted to the new OSWAN NOC on as is where is basis with a downtime of maximum of 48 hours.	Count if existing devices are unknown		Bidder may visit the site for all the count
23.	33	6.6.4. Other scope	In case, the bidder will go with existing storage solution at OSDC, provisioning of the connectivity between OSWAN NOC at ground floor and OSDC at 2nd floor for SAN connectivity, has to be ensure by the bidder.	Please clarify if the SAN connectivity parallel link requirement. ?	We can propose OM4 fiber X 4 duplex 32G Links between floor if the distance is between 100Meters	As per bidder solution. Bidder may visit the site before preparing the solution.
24.	54	6.6.6. Shifting of Existing IT Infrastructure to proposed NOC:	The existing OSWAN Infrastructure at Bharat-Net NOC comprising of Racks, servers, switches, Gateways, Network elements, VC MCUs, Sensitive IT Equipment, Other IT hardware and associated software in the OCAC Building is to be shifted to the new OSWAN NOC on as is where is basis with a downtime of maximum of 48 hours. Shifting of the equipment involves unmounting, packaging(if required), shifting, from the existing Bharat-Net NOC room and un-packaging, mounting of	Please provide the asset list and Quantities to tranfered to new location? Thus shall help to estimate correct rack sizing and migration plans		Bidder may visit the site for sizing and migration plans.

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			the equipment at new OSWAN NOC			
25.	54	6.6.6. Shifting of Existing IT Infrastructure to proposed NOC:	Integration of active equipment (Network, Security, Servers, VOIP and VC system) using UTP and OFC cable have to be done.	please clarify scope of security and VOIP integration and the existing products in use ?		Bidder may visit the site for sizing and migration plans.
26.	54	6.6.6. Shifting of Existing IT Infrastructure to proposed NOC:	Integration of active equipment (Network, Security, Servers, VOIP and VC system) using UTP and OFC cable have to be done.	If VoIP system to be added inegrated ? If there is separate cable or switch port required in the Helpdesk or NOC areas. ?		Bidder may visit the site for sizing and migration plans.
27.	54	6.6.6. Shifting of Existing IT Infrastructure to proposed NOC:	Bidder should analyze and study the existing infrastructure located at SHQ, and provide the solution for migration. Bidder accordingly shall implement the solution. Connectivity between OSWAN Firewall and SECLAN Firewall.	If there is any increase in bandwidth expected in the provided solution ?	We need customer Authorization to move the Link to new location. This will require csutomer approval letter to be sent to ISP with contacts.	Bidder may visit the site for sizing and migration plans.
28.		Gerneral Archietcure	Existing network architetcure and connectivity of NOC and Help desk	please provide the existing network connectivity diagram ?		Will be provided to the selected bidder.
29.		Gerneral Archietcure	High Level OSWAN -NOC Design	Please provide to be High Level network Architecture so that integrated design can be made and presented ?		Bidder may visit the site for sizing and migration plans.
30.			Additonal Query	Kindly share the inventory details like Node, Servers,Storage for NMS Tools solution perspective		Will be provided to the selected bidder.
31.			Additonal Query	Please share the exisitng EMS/NMS Tools deployment architecture in the environment.		Will be provided to the selected bidder.
32.			Additonal Query	Is NMS/EMS Tools setup is required in HA mode		Yes
33.			Additonal Query	Which Tool is used for patching /Server configuration tasks.		As per bidder solution

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34.	10	120	11.3.1. DMZ Switch	Network Virtualization Features 17. Switch should support Software Defined Networking Solution 18. Switch should support standards-based VXLAN EVPN fabrics	Do we have to configure SDN Network software and the asked features, if yes, please clarify if SDN controller and software to be supplied along with switches ?	SDN is required for the virtualisation platform.

Sd/-

General Manager(Admn)

Video Wall (3x2) with Controller

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Make: **Model:**				
Sl No	**Parameter**	**Specification**	**Compliance (Yes / No)**	**Deviation (If any)**
1.	Display Wall Screen Configuration	3 x2		
2.	Total No. of Displays	6		
3.	Display Screen Features	54" LED Video Wall, Die Cast Aluminium Cabinet: 1200 x 675 x 51mm, 480x270, BLOC Design: Optimum Cable-less, wire-less connection, Easy UI menu with remote, Contrast Ratio 9000:1, 20 Bit Color Processing, Alpha 7 AI Processor, HDR 10, HDR 10 Pro, Viewing Angle (H × V) 160 × 160, Refresh Rate: 3840 Hz, Standby Mode for Power Saving, Maximum Power Consumption W/m2: 360 W, UHD LED Controller with inbuilt Operating System and Digital Signage Software, User Interface with remote Control		
	Brightness cd/m2	600 Nits		
	Pitch(mm)	2.5mm		
4.	Video Wall System	Data Processor [Must be same OEM of display]: Inputs: HDMI-2,HDCP2.2,DP-1, HDCP1.3 Out Puts: HDMI Out-1, FHD or UHD(4k,60),DP Out-1, RS232 External Control: RS232C IN-1, RJ45(LAN)-1,IR IN-1,USB-2, 2.0 Required Features: Built in Internal Memory-8GB, Wi-Fi, webOS, Embedded CMS,USB Auto Playback,Local Contents Scheduling,Group Manager,Fail over , PIP/PBP,Screen Share,Play via URL,OSD Rotation,Lock mode,Local Key, WiFi, SoftAP, Screen Share,Content Rotation,Gapless Playback, Tile Mode Setting,(atleast . 14x14),SNMP,ISM Mode, Beacon, HDMI-CEC,webRTC Power Consuptions: Typ.16W/Max.22W. Make-Same OEM of Video Wall		
5.	Other Feature	Wireless Schreen Share Kit [Must be same OEM of display]: Required Features: User Switching, Split View (Max. 4 Screen), Admin mode, Signage Control, Sound Control, Connectivity-USB Make-Same OEM of Video Wall ; Key Feature: HW: CPU: R16: Quad-core Cortex-A7, Internal Memory: 4 GB eMMC and DDR3 512GB, Wi-fi: protocol: IEEE 802.11 a/b/g/n/ac; OS:: Linux: 4.9.115; SW:: Video: H264, Frame : Max 39fps, Connectivity:: USB: USB 2.0 Type A(1), Power consumption:: Max: 2.5W; Multi user connet: Yes (Max 10 User), User Switching: Yes; Split View: Yes (Max 4 screen); Signage control: yes; Warranty: 1 year		

Sl No	Parameter	Specification	Compliance (Yes / No)	Deviation (If any)
Make: **Model:**				
6.	Controller	• Requirements: • The devices should be 4K featured with 4xHDMI 2.0 input and 2xHDMI 2.0 output ports It should support design formats such as full screen, PIP and shall also support customized design/layout feature. • The device should support Seamless Switching Feature along with built in Scalar & Multi Viewer. 4K featured, 4xHDMI 2.0 input and 2xHDMI 2.0 output, Resolution Supported should be 18G Maximum 4K@60 Hz 4:4:4 • It should support automatic scaling feature for all inputs • It should support automatic input matrix feature on full screen mode with front panel control buttons It should have by default 4 x predefined design feature and 4 x customized design feature • Ability to change the size of design windows should be available in the hardware It should have WEB UI, RS232 and Ethernet control feature with EDID Management Feature • It should come with built in Audio De-Embedder It should have 1 x RJ45 Port – 100 Mbit with IP Address feature support like DHCP, local link , fixed IP. • For Management of the device, it must have Web user interface, API & front panel button. • It should come with built-in ESD Protection - ±8kV (air gap discharge) ±4kV (connection discharge) • Working Temperature - 0C~40C / 32F~104F ; Humidity Range - 20~90% RH ; Storage Temperature - -20C~60C / -4F~140F. • Approved Make: ATEN / Altovex/BLACKBOX /4THEWALL/ LIGHTWARE / RGBLINK		
7.	OEM Eligibility	OEM Must have branch office & OEM own service center at state of customer.		
8.	Warranty	Comprehensive onsite OEM Warranty for 5 years with part replacement		