

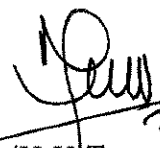


NATIONAL INVESTIGATION AGENCY
GOVERNMENT OF INDIA
MINISTRY OF HOME AFFAIRS
OPPOSITE CGO COMPLEX
LODHI ROAD
NEW DELHI - 110 003

CORRIGENDUM-II DATED 29.06.2020- ESTABLISHMENT OF DATA CENTRE

Reference Open Tender No 06/2020 dated 14.02.2020, corrigendum dated 16.03.2020, dated 06.04.2020 and dated 30.05.2020 of NIA floated for setting up / establishment of Data Centre at NIA Hqrs, New Delhi.

2. The last date for submission of bids is further extended up to 31.07.2020 up to 1400 hrs, due to administrative reasons. The technical bids will be opened on 31.07.2020 at 1600 hrs.
3. The terms & conditions have been partially modified as per annexure (Corrigendum-II).
4. The earlier modified terms & conditions published as corrigendum dated 27.04.2020 may be treated as cancelled.
5. Other terms and conditions of tender notice will remain unchanged.


29/6/2020
(N.K. Tyagi)
Supdt of Police (Adm)
NIA HQ, New Delhi
e-mail:naveentyagi.nia@

Corrigendum-II			
Tender No. 06/2020 dated 14.02.2020 for Establishment of DATA CENTER AT NIA, NEW DELHI (Ref: Prebid held on Date 9th March 2020)			
S.NO	Page, Reference	Existing tender version	Modified version
1	Pg. 20, Pt. 6.1 para & Pt. 6.2	Cold Aisle Containment	Bidder can select the approach of Cold / Hot Aisle
2	Pg. 22, Pt. 6.5	Material made from cementitious steel, solid fire resistant material	Shall follow the standards / equivalent standards mentioned under this section
3	Pg. 49-50, A3	Network Racks - 800 w x 2000 H x 1200 D	Network racks, 750 mm or 800 mm width is acceptable.
4	Pg. 49-50, A4	19" Rack Frame of sturdy frame section construction, consisting of 16 folded rolled hollow frame section punched in 25mm DIN pitch pattern, PU Gasket	19" Rack shall support Static load of minimum 1100 KGs and Rolling load of minimum 1000 KGs
5	Pg. 49-50, A5	All profile edges are radiused, the corners are welded, with removable top & bottom cover with cable entry provision. Frames should be buyable, scalable and modular	EIA-310 compliant 19" equipment and Top cover
6	Pg. 49-50, A6	Both front and rear door with 4 point locking system with swivel handles for easy operation and sealing of the cold and hot air	Multipoint locking and IP20 Rated
7	Pg. 49-50, A7	Plinth of at least 100mm height to be supplied with each rack, plinth must be capable of securely supporting rack placed on it and should allow access of cable and tubes through it	Read as Plinth or Castors. Bidder shall ensure Frame or Plinth to ensure no air leakage from the bottom of the rack.
8	Pg. 49-50, A7, A8	Front perforated sheet steel front door (130 degrees) at least 3 mm with square door stiffener Rear sheet steel perforated door (130 degrees)	120/130 degrees
9	Pg. 49-50, A14	Horizontal earthing busbar per cabinet	Read as "Horizontal Bus bar or earthing point"
10	Pg. 49-50, A1	Input Voltage range 90V-260V(415)V AC, 50-60 Hz	Read as 400-415V 3Phase
11	Pg. 49-50, A4, A5	Slots type EN 60320/C13 24 nos. and 6 no. of C13	Read as minimum 18 nos. of C13 and at least two no. of C19 sockets per PDU compatible to EN60320 standards
12	Pg. 49-50, A6	Connector, PDU Input EN 60309/CEE	Read as "EN60309 / IEC 309"
13	Pg. 49-50, A7	Length of connection cable 3 mts.	No cable joint is allowed from busbar tap-off point to rack IPDU

14	Pg. 49-50, A9	Measured function (input/Phase or output slot): Values recorded voltage (V), current (A), Frequency (Hz), Active power (KW), apparent power (KVA), Active energy (kWH), Power factor, Neutral conductor-measurement/load imbalance detection, fuse monitoring	Read as Measurement function (input / Phase or output slot): Values recorded Voltage (V), Current (A), Frequency (Hz), Active power (kW), Active Energy (kWh).
15	Pg. 49-50, A10	Display OLED, RGB 128 x 128 Pixels	Display type OLED/ RGB/ LED/ LCD
16	Pg. 49-50, A14	Can Sensor types temperature, temperature/humidity combined, infrared access sensor, vandalism sensors	Temperature and Humidity sensors
17	Pg. 49-50, A15	Max. no. of sensors per PDU 4, sensor configuration freely selectable, including 4 of the same type	Minimum one sensor port
18	Pg. 38, Pt. 8.2.20.3 (pg.51 pt.17	Standards security: EN 60950-1, EMC- En55022/B, EN 61000-4-2, EN 61000-4-3, EN 61000-6-2, EN 61000-6-3	EN / IEC 61000 or equivalent standards
19	Pg. 67-68, Pt. 9.8.1	Condensate and leakage management has to be integrated	Condensate Leakage monitoring system need to be provided
20	69, Technical specifications	Certifications: EMC directive 2004/108/EC, 2006/95/EC; EN55022, EN 61000-3-2, EN 60335-1, EN 61000-6-2, EN 61000-6-3	Certifications: EMC directive 2004/108/EC, 2006/95/EC, EN 55022, EN 61000-3-2 , EN 60335-1 , EN 61000-6-2, EN 61000-6-3 /c-Tick/UL, IEC 60000/VDE or equivalent standards
21	Colour RAL7035/9005	Request to accept black or RAL 7035/RAL9005	RAL 7035 / RAL 9005
22	Pg. 69, Pt. 9.8.2	Air throughput: Max 4800 m3/h	The Air/Water heat exchanger should have a min. 3200 CFM. Quoted Units shall cater to the current load of 160 KW and should be upgradable to 25% for future expansion without adding addl. In Row cooling units.
23	68	Indirect free cooling to be maximised	This point is dropped
24	71, Pt. 9.8.3	Optional (For Corrosive Environments)	Anti-corrosive coating is must
25	General	Design Conditions	Refer ASHRAE TC 9.9 Guideline for site ambient conditions
26	Pg. 69-70, Pt. 9.8.3 Para	Hydraulic Manifold in Para Evaporator, Shell & Tube Heat exchangers	Hydraulic / evaporator coil; Shell/ Tube or Plate type Heat exchangers

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27	Pg. 69-70, Pt. 9.8.3 Para	V shape Coil in Para Air cooled Condensers	V-Shape/Flat/Slant coil
28	General	Redundancy of chillers	Pg.69, pt. 9.8.3, Two chillers of each 45TR in Redundant mode need to be supplied.
29	General	Placement of Pump	As per the quoted product
30	Pg. 29, Pt. 8.2.6; Pg. 31, Pt. 8.2.13; Pg. 35, Pt. 8.2.13.11; Pg. 40, Pt. 8.2.20.9;	The UPS battery charging circuit shall be capable to charge the battery to 90% of the capacity from fully discharged state within a maximum period of 8-10 hours.	Bidder need to select latest battery technologies which includes LI-Ion, LMO and NCM. Based on the same bidder can work out the charging time keeping backup requirement of 20 Min. at rated capacity of UPS.
31	38, Pt. 8.2.23	ISO TS 16949, ISO 26262 to be removed	Shall Adhere to Standards of UL/BS EN/ IEC or equivalent standards
32	Pg. 39, Pt. 8.2.20.5	Elevation : Operational : 5000 ft. (1500 m) maximum without de - rating	"This point is dropped"
33	General Query	Approved Makes	Minimum five major components out of UPS , Chiller, Rack, IPDUs, In Row Unit, DCIM S/W, Cold/Hot Aisle containment, shall be from single OEM.
34	General Query	Tender Drawings	Drawing will be shared only with while awarding the contract
35	General Query	Single Line Drawing	Bidder need to work out the same
36	Pg. 59, Pt .9.6.3	Multi-Sensor Intelligent Detector	Products with equivalent standards and features are accepted
37	Pg. 60, Pt. 9.6.5	Addressable Photo electric smoke detector:Size:2.0"(5.3 cm) high x 4.1"(10.4cm) diameter installed in B501 base, 6.1"(15.5 cm) diameter installed in B350LP base	Products with equivalent standards and features are accepted
38	Pg. 18, Annex1,point 4	Third party audit of DC	Min. Tier-II has to be achieved with a Scope to meet Tier-III in near future
39	Pg. 25, Pt. 8.1	Deployment of Electrical Equipment's, Cabling etc.	Read as "Compact Dry type transformer"
40	Pg. 26, Pt. 8.1	LT SECTION OF 300/350 KVA HT Transformer	Minimum rating of MCCB is 500 Amp with LSIG protection
41	Pg-27-28, 8.2.4 (iv)	UPS Modules Construction is Used HOT PLUGGABLE Type	Read as "Hot Pluggable / Hot swappable"

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42	Pg-30-31, Pt. 8.2.12	Overloading Ratings Asked 125% for 10mins @40 deg., 150 for 01min @40deg.;Transient Recovery Time 1% Steady State O/P Voltage within 50ms (0-100% Load) Transient Recovery Time 1% Steady State O/P Voltage within 50ms (0-100% Load)	As per class I classification of IEC
43	Pg. 27- 8.2.3 Points (C)	UL Certification is Asked	UL/ CE or equivalent standard
44	Pg. 52-56, Pt. 9.4	DCIM, Environment and Physical space Monitoring System	<p>Technical Specifications</p> <p>A) Monitoring of all Non-IT equipment which shall include Chillers, LCP Units , Temperature and Humidity detailing, Rack IPDUs , UPS and Batteries, DG Set, Fire Suppression systems etc.</p> <p>B) Should provide alert mechanism through e-Mail , SMS is desirable.</p> <p>C) Should support integration with IT equipment via SNMP</p> <p>D) Should generate Reports based on equipment, Threshold values, usage, Alerts etc.</p> <p>E) Should provide Dash board and Graphical view of DC status</p> <p>F) Should provide view and reports of Rack wise DC Assets (both IT and Non-IT)</p> <p>G) Supply shall include required appliance / Server Hardware and associated Software including OS.</p> <p>H) DCIM Software licenses shall be perpetual with support for minimum 200 Assets.</p> <p>I) Should have built-in functionality to integrate with BMS</p> <p>j) Various BUS types like BACnet, Modbus, Serial, RS485 etc. with appropriate IP converters can be used.</p> <p>K) Two nos. of 24 Port POE switches shall be supplied as part of DCIM solution.</p> <p>L) All the Software licenses supplied shall be of perpetual with software upgrades up to</p>

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			the end of the warranty period as per the tender terms.
e45	50, 9.1	Technical Specifications of IPDUs, CAN sensor type temperature, /humidity (combined) , infrared sensors, vandalism sensors	Read as Temperature and Humidity sensors only
46	28, 8.2.3	Standards	Bidder can quote items with equivalent standards
47	31-32, 8.2.12	Crest factor	This point is dropped
48	Pg. 44 pt. 8.5; Pg. 45 pt. 8.6.1	BUSBARS & Rack Power cabling	Two Busbars, Busbar type: Sandwiched with LI protection Tap-off boxes: No. of racks x 2 + No. of LCP units + 2 tap-off boxes as spares for each Busbar. U/Rectangle Shape to cover both rows
49	12.2.8	24 Core Multimode Fibre	Armoured cable. Bidder shall execute all the works related to Fibre termination. Bidder shall also supply 4 no. of 15 mts. Multimode CL to LC patch cables.
50	12.2.9	Copper Ethernet Patch cables	CAT6A UTP
51		Patch Panel	48 Port Patch Panel fully loaded CAT6A
52	55	DCIM: Communication Interface for integration with IT Infrastructure devices: Software Modules: Aging Analysis & Identification of underutilized/ ghost servers that can be retired.	This point is dropped". Ref. Serial no. 44 of the corrigendum.
53	56	DCIM:Reports:Option to export reports/charts to Excel, pdf & csv files	"excel /csv/ pdf". Ref. Serial no. 44 of the corrigendum.
54	General	General	Consortium is fine with Single bidder taking the responsibility of the same. However, the bidder need to produce the contract details among the consortium along with validity period of at least 6 yrs.
55	General	Annexure-I, Point No. 1, total DC Area mentioned is 1160 Sq. ft. and in Diagram Room size mentioned is 1102 Sq. ft. Which one should be considered.	Consider 1160 sq. Ft which is at higher side
56	Pg. 17, Annex-1 point 1	DC is to be built in Existing Building.	Considered
57	Civil works	Requirement of existing slab to True ceiling height	12ft.

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58	General	As per the RFP, one number of UPS Input panel is to be feed through AMF Panel, Is the AMF Panel have the spare feeder to connect the I/P Panel ?	AMF panel shall be supplied by the bidder. Sufficient Circuit breakers to connect LT panel (Transformer side to AMF panel, DG Set to AMF Panel and AMF panel to UPS, AMF panel to other subsystems like Cooling, lighting etc. Note: Bidder need to supply Armoured 4 pole power cables of suitable rating for AMF to DGSet (400KVA), AMF to UPS (300KVA), AMF to cooling and lighting (100KVA).
59	Pg. 82, Pt. 12.7	Payment terms	Payment will be made on six month basis at the end of six months for each year of the operations cost. CAMC/additional warranty period payment on quarterly basis after completion of 03 months.
60	General	Liquid Cooling units	Active Condensate Management /Humidity control shall be part of the LCP in row cooling unit.
61	General	LT Panel requirement	Bidder need to provide the LT panel to connect the transformer out to AMF panel (with sufficient Circuit breakers & protection circuits. Bidder need to supply armoured 3 phase 4 pole power cable of rating 350 to 400KVA. Note: Bidder need to consider the cable distances (LT panel to AMF panel).
62	Pg.90, Annexure-III, Commercial Bid Format, Pt.17	Intelligent Display Panels	Please ignore this point.
63	General	Eligibility Criteria (Part-II, 1), Page 7.	Bidder should have ISO certification at the time of bidding.
64	Eligibility Criteria (Part-II, 1, xiii), Page 6.	The bidder should have executed at least two work orders of similar nature and the size in setting up of Data Center during the last five years i.e. from 2015.	Bidder shall have experience of building and managing the DC of size not less than 16 racks" and shall have executed at least two such work orders in the span of last 5 years.

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65	Eligibility Criteria (Part-II, 1, iv), Page 6.	Total turnover of the Bidder should be more than Rs. 10.00 Cr (ten crore) each during the last three financial years starting from Financial Year 2016-17 from the same business.	Average Annual Financial Turnover during the last 3 financial years starting from financial year 2016-17, should be more than Rs 10.00 Cr (Ten Crores) from the same business.
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Note: Please note that, Corrigendum-II supersedes Corrigendum-I. Bidder shall refer Bid document and corrigendum-II only.

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