

**NIT No.:** IITI/IDO/PR/Ph1A/R&C/NIT/2021-22/01  
**Name of Work:** Balance work for Phase 1A (a)-Part A at IIT Indore.

### **CORRIGENDUM # 1**

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The following modifications are made with respect to above mentioned tender document:

1. Pre bid meeting report is attached as Annexure C1.
2. Tender drawings pertaining to Civil, Plumbing, Architecture, Structural etc. are uploaded as Volume IV Civil Part 1 to 26.
3. A clause is included: "In line with the amendment to rule no. 170 (i) of General Financial Rules (GFR), 2017 of Dept. of Expenditure (Min. of Finance), MSMEs and startups are exempt from depositing Earnest Money Deposit (EMD) for this tender. The bidder claiming such exemption shall submit documentary evidence for its being an MSME or a startup as per governmental rules/provisions."
4. Some changes are made in the earlier BOQ & SOQ for the items mentioned in Annexure C2. Such changed items in SOQ shall now be read as mentioned in Annexure C3. BOQ has been revised accordingly & uploaded on CPP Portal.
5. The BOQ given in the tender is indicative in nature and has been provided as guidance to the bidders for making their offer. Further, it is stated that some material, included in the BOQ at present, may be supplied by the Institute as free issue items at a later date during execution of the project. The contractor shall have no claim on account of reduction in the scope of their supply due to issuance of such free issue items. The contractor(s) shall be paid for the actual quantity supplied and installed by them on the basis of the unit rates.

This corrigendum #1 will form the part of Tender document. It should be duly sealed and signed and submitted by the bidders along with technical bid documents. All other terms and conditions as mentioned in original tender document will remain unchanged.

**Project In-Charge**

**INDIAN INSTITUTE OF TECHNOLOGY INDORE**

NIT No.: IITI/IDO/PR/Ph1A/R&amp;C/NIT/2021-22/01

Name of Work: Balance work for Phase 1A (a)-Part A at IIT Indore.

**Pre-Bid Meeting: Record notes of discussion (RND)**

Pre- Bid meeting held on 07.05.2021 through video conferencing, time- 11am to 12 noon

Participating vendors:

SI No.	Vendor	Name of the representative	Designation	Contact No.
1	M/s BR Goyal Infrastructures Ltd.	Mr. Tarun Maheshwari	Sr. Project Manager	9669990666
2	M/s Acharya Electricals Kolkata	Mr. Shubhendu Acharya	Proprietor	9830223295
3	M/s WIPRO Lighting Indore	Mr. Yogesh Tayre	Area Manager (MP)	8109035544

Meeting was attended by the officials concerned from IITI and MECON along with the vendors. At the outset, the vendors were briefed about the broad scope, methodology and terms & conditions of the work. They were further exhorted to go through the tender documents minutely and bid with their best prices.

Various queries raised by the vendors and the responses given to the queries are tabulated below:

SI No.	Query	Raised by	Reply
1	Tentative cost of Civil, Mechanical and Electrical works asked by the vendor to have a detailed idea of the works to be executed	M/s BR Goyal	Tendered work is the balance work, so combined BOQ was uploaded. Bidders can exercise the bifurcation of the BOQ system –wise for their own reference.
2.	Are the items mentioned in the tender are Delhi Schedule of Rates (DSR) items	M/s BR Goyal	Most of the items in the BOQ are DSR items. Some items are non DSR.
3	What GST rates is fixed for this project	M/s BR Goyal	It was clarified that the rates quoted for all the items should be inclusive of all taxes including GST etc. No separate payment for any tax including GST etc. shall be done over and above the quoted rates of the bidders.
4.	Drawings are required for detailed analysis while quoting the rates	M/s Acharya Electricals	It was informed that all the drawings are already uploaded on the portal. Bidders are requested to go through the same
5	Site visit is required to assess the actual quantum of work.	M/s Acharya Electricals	Opportunity was given to all the interested vendors and time slot was also given in the tender for site visit.

6	Most of the lights fixtures (with specifications given in the tender ) are not manufactured at present (obsolete). LED lights can be supplied against the obsolete items	M/s WIPRO Lighting	It was informed that the tendered work is the balance work. Hence, the specifications are kept same as per the original work. If the items are obsolete,then appropriate decision will be taken at the execution stage on the basis of required documentary evidence. At present no changes in the specification is allowed.
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## Annexure-C2

S No	Item	Unit	Quantity
189.02	Sand and Gravel	Lot	4
214.00	<b><u>DDC PANELS:</u></b>		
214.01	Supply of DDC panels with all required DDC related items (accessories) such as, ontrrollers, I/O interfacing cards, terminal base, MCB, Terminal blocks, Relay etc. inside the DDC panels with complete internal wiring.	Set	37
214.02	Installation of DDC panels. Installation of all required DDC related items (accessories) such as, terminal base, MCB, Terminal blocks, Relay etc. inside the DDC panels with complete internal wiring. Installation of all required DDC related electronic cards such as, controllers, I/O interfacing cards etc. inside the DDC panels. Checking, Correction / modification of Installation of all required DDC related items (accessories) such as, terminal base, MCB, Terminal blocks, Relay etc. inside the DDC panels with complete internal wiring. Note: The details of the quantities mentioned in LOT shall be as per final detailed engineering drawings prepared by contractor based on technical specification of IBMS and actual site condition.	Lot	1
214.03	Testing and commissioning of all DDC panels with all required DDC related items (accessories) such as, controllers, I/O interfacing cards, terminal base, MCB, Terminal blocks, Relay etc. inside the DDC panels with complete internal wiring. Note: The details of the quantities mentioned in LOT shall be as per final detailed engineering drawings prepared by contractor based on technical specification of IBMS and actual site condition.	Lot	1
239.00	<b><u>INTEGRATION UNIT &amp; FIELD LAYER:</u></b> <b>Note: The details of the quantities mentioned in LOT shall be as per final detailed engineering drawings prepared by contractor based on technical specification of IBMS and actual site condition.</b>		
239.01	For 3 nos. Chillers Interface on BACnet /IP (software) (30 I/O's per Chiller = 90 points)	Lot	1
239.02	Integration of CCTV through Modbus/Bacnet/OPC Protocols.	Lot	1
239.03	For 1 no FAS control Panel on BACnet /IP or Modbus (2000 Detectors)	Lot	1

239.04	For 25 nos. Lift interface on Modbus RTU. (16 I/O's per Lift = 400 points)	Lot	1
239.05	Integration of RO plant through soft communication.	Lot	1
239.06	For LT Electrical Panel & EM points (650 Points)	Lot	1
239.07	Integration of Water meter through soft communication.	Lot	1
239.08	Integration of Gas meter through soft communication.	Lot	1
239.09	Integration of Solar water heater through soft communication.	Lot	1
239.10	Integration of Battery management system through soft communication	Lot	1
239.11	Integration of SCADA system through Modbus/Bacnet/OPC Protocols	Lot	1
239.12	Integration of VRF through soft communication.	Lot	1
239.13	For 300 nos. VAV Controllers on Modbus RTU/BACnet (10 I/O's per Controller = 3000 points)	Lot	1
239.14	For AHU VFD Integration (1150 Points)	Lot	1
239.15	Integration of Access Control System through Modbus/Bacnet/OPC Protocols	Lot	1
239.16	Integration of Water tanks & Pumps control panel through Modbus/Bacnet/OPC Protocols.	Lot	1
239.17	Variable Pumping system, Pump VFD	Lot	1
244.00	<b><u>CABLES:</u></b> <b>Note: The details of the quantities mentioned in LOT shall be as per final detailed engineering drawings prepared by contractor based on technical specification of IBMS and actual site condition.</b>		
244.01	Supplying of 2 / 4 / 6 / 8 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded cable and 2 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Shielded cable with 20/25 mm PVC conduit and other accessories.	Lot	1
244.02	Installation of 2 / 4 / 6 / 8 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded cable and 2 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Shielded cable with 20/25 mm PVC conduit and other accessories.	Lot	1
244.03	Testing & commissioning of 2 / 4 / 6 / 8 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded cable and 2 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Shielded cable with 20/25 mm PVC conduit and other accessories.	Lot	1
244.04	Supply, installation, testing and commissioning of 3 Core 1.5 Sqmm, unarmoured ATC conductor multistranded, cable for Powering DDC , Actuators, BMS PC etc. with PVC conduit and power socket (as applicable).	Lot	1

244.05	Supplying, installing, testing and commissioning of CAT6 UTP Cable Box (305m) with PVC conduit.	Lot	1
285.05	Supply and installation of Volume control dampers as per drawings	Lot	1
285.06	Supply and installation of Back draft damper	Lot	1
286.01	Cabinet exhaust fan above air washer -1 room	Lot	1
286.02	Treated fresh air ducting in Gym area	Lot	1
286.03	Supply air duct in Gym area	Lot	1
382.00	Painting and testing of old work done by simplex, related to fire fighting work in 5 building POD.	lot	1

## Annexure-C3

S No	Item	Unit	Quantity
189.02	Sand and Gravel (5000 kg of fine sand media, 500 kg of gravel media for each)	Lot	4
214.00	<b><u>DDC PANELS:</u></b>		
214.01	Supply of DDC panels (Panel body / structure)	Nos.	37
214.02	Installation of DDC panels (Panel body / structure).	Nos.	37
214.03	Supply of DDC related electronic cards such as, controllers, I/O interfacing cards, network interfacing cards, terminal base etc.	Set	37
214.04	Installation of all required DDC related electronic cards such as, controllers, I/O interfacing cards, network interfacing cards etc. inside the DDC panels.	Set	76
214.05	Supply of DDC related accessories such as, MCB, Terminal blocks, Relay, wires etc. inside the DDC panels.	Set	37
214.06	Installation of all required DDC related items (accessories) such as, terminal base, MCB, Terminal blocks, Relay etc. inside the DDC panels with complete internal wiring.	Set	47
214.07	Checking, Correction / modification of Installation of all required DDC related items (accessories) such as, terminal base, MCB, Terminal blocks, Relay etc. inside the DDC panels, which are already installed with complete internal wiring.	Lot	1
214.08	Testing and commissioning of DDC panel with all required DDC related items (accessories) such as, ontrrollers, I/O interfacing cards, terminal base, MCB, Terminal blocks, Relay etc. inside the DDC panels with complete internal wiring	Set	102
239.00	<b><u>INTEGRATION UNIT &amp; FIELD LAYER:</u></b> <b>Note: The details of the quantities mentioned in LOT shall be as per final detailed engineering drawings prepared by contractor based on technical specification of IBMS and actual site condition.</b>		
239.01	Integration of 3 nos. Chillers Interface on BACnet /IP (software) (30 I/O's per Chiller = 90 points)	Lot	1
239.02	Integration of CCTV through Modbus/Bacnet/OPC Protocols.	Lot	1
239.03	Integration of 1 no FAS control Panel on BACnet /IP or Modbus (2000 Detectors)	Lot	1
239.04	Integration of 25 nos. Lift interface on Modbus RTU. (16 I/O's per Lift = 400 points)	Lot	1
239.05	Integration of RO plant through Modbus/Bacnet/OPC Protocols.	Lot	1

239.06	Integration of LT Electrical Panel & EM points (650 Points) through Modbus/Bacnet/OPC Protocols.	Lot	1
239.07	Integration of Water meter through Modbus/Bacnet/OPC Protocols.	Lot	1
239.08	Integration of Gas meter through Modbus/Bacnet/OPC Protocols.	Lot	1
239.09	Integration of Solar water heater through Modbus/Bacnet/OPC Protocols.	Lot	1
239.10	Integration of Battery management system through Modbus/Bacnet/OPC Protocols.	Lot	1
239.11	Integration of SCADA system through Modbus/Bacnet/OPC Protocols	Lot	1
239.12	Integration of VRF through through Modbus/Bacnet/OPC Protocols.	Lot	1
239.13	Integration of 300 nos. VAV Controllers on Modbus RTU/BACnet (10 I/O's per Controller = 3000 points)	Lot	1
239.14	Integration of AHU VFD Integration (1150 Points) through Modbus/Bacnet/OPC Protocols.	Lot	1
239.15	Integration of Access Control System through Modbus/Bacnet/OPC Protocols	Lot	1
239.16	Integration of Water tanks & Pumps control panel through Modbus/Bacnet/OPC Protocols.	Lot	1
239.17	Integration of Variable Pumping system, Pump VFD through Modbus/Bacnet/OPC Protocols.	Lot	1
239.18	Hardware signal (DI/DO/AI/AO) interfacing with <b>AHU MCC, VFD panels &amp; Auto / Manual switches</b> of AHU and Chilled Water Control valve Actuator for AHU.	Set	103
239.19	Hardware signal (DI/DO/AI/AO) interfacing with fan Starter panel for <b>ventilation fans</b> .	Set	38
239.20	Hardware signal (DI/DO/AI/AO) interfacing with fan Starter panel, MCC panel, auto / manual switches etc for <b>Air washer / scrubber</b> .	Set	23
239.21	Hardware signal (DI/DO/AI/AO) interfacing with <b>Chiller</b> MCC panel and control panel	Set	3
239.22	Hardware signal (DI/DO/AI/AO) interfacing with <b>Primary chilled water pump, Secondary chilled water pump and Condensor water pump</b> starter panel, auto / manual switch and MCC panel.	Set	9
239.23	Hardware signal (DI/DO/AI/AO) interfacing with VFD for Secondary chilled water pump.	Set	3
239.24	Hardware signal (DI/DO/AI/AO) Interfacing with Expansion Tank Pump	Set	1
239.25	Hardware signal (DI/DO/AI/AO) interfacing with <b>Cooling tower</b> MCC panels and current relays.	Set	3



239.26	Hardware signal (DI/DO/AI/AO) interfacing with Cooling Tower isolation Motorised Butterfly Valve actuators.	Set	6
239.27	Hardware signal (DI/DO/AI/AO) interfacing with <b>pump (Fire booster pump, Domestic water pump, Flushing water pump, Fresh water pump, Raw water pump, Soft water pump, Garden hydrant pump, Sump pump, Sewage pump etc.)</b> starter Panel.	Set	67
239.28	Hardware signal (DI/DO/AI/AO) interfacing with <b>Lift control panel.</b>	Set	15
244.00	<b><u>IBMS CABLES AND CONDUITS:</u></b>		
244.01	Supplying of 2 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	10,664
244.02	Installation of 2 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	10,664
244.03	Testing & commissioning of 2 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	10,664
244.04	Supplying of 4 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable	Mtr	8,912
244.05	Installation of 4 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	8,912
244.06	Testing & commissioning of 4 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	8,912
244.07	Supplying of 6 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	4,058
244.08	Installation of 6 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	4,058
244.09	Testing & commissioning of 6 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	4,058
244.10	Supplying of 8 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	898
244.11	Installation of 8 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	898

244.12	Testing & commissioning of 8 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Un-shielded, PVC insulated cable.	Mtr	898
244.13	Supplying of 1 Pair 1.0 Sqmm, unarmoured ATC conductor multistranded, Shielded, twisted pair, PVC insulated communication cable.	Mtr	13,007
244.14	Installation of 1 Pair 1.0 Sqmm, unarmoured ATC conductor multistranded, Shielded, twisted pair, PVC insulated communication cable.	Mtr	13,007
244.15	Testing & commissioning of 1 Pair 1.0 Sqmm, unarmoured ATC conductor multistranded, Shielded, twisted pair, PVC insulated communication cable.	Mtr	13,007
244.16	Supplying of 20 mm PVC conduit with other accessories.	Mtr	8,000
244.17	Installation of 20 mm PVC conduit with other accessories.	Mtr	8,000
244.18	Supplying of 25 mm PVC conduit with other accessories.	Mtr	28,700
244.19	Installation of 25 mm PVC conduit with other accessories.	Mtr	28,700
244.20	Supply of 3 Core 1.5 Sqmm, unarmoured ATC conductor multistranded, cable for Powering DDC , Actuators, BMS PC etc. with power socket (as applicable).	Mtr	3,600
244.21	Installation of 3 Core 1.5 Sqmm, unarmoured ATC conductor multistranded, cable for Powering DDC , Actuators, BMS PC etc. with power socket (as applicable).	Mtr	3,600
244.22	Testing and commissioning of 3 Core 1.5 Sqmm, unarmoured ATC conductor multistranded, cable for Powering DDC , Actuators, BMS PC etc. with power socket (as applicable).	Mtr	3,600
244.23	Supplying of CAT6 UTP Cable Box (305m) with PVC conduit.	Nos.	35
244.24	Installation of CAT6 UTP Cable Box (305m) with PVC conduit.	Nos.	35
244.25	Commissioning of CAT6 UTP Cable Box (305m) with PVC conduit.	Nos.	35
285.05	Supply and installation of Volume control dampers as per drawings	Sqm	12
285.06	Supply and installation of Back draft damper	Sqm	1
286.01	Cabinet exhaust fan above air washer -1 room	Sqm	14
286.02	Treated fresh air ducting in Gym area	Sqm	33
286.03	Supply air duct in Gym area	Sqm	38
382.00	Painting and testing of old work done by M/s simplex, related to fire fighting work in 5 building POD.	Sqm	450