Name of Work :- CONSTRUCTION AND DEVELOPMENT WORKS OF 38 NOS. STUDENT HOSTEL BUILDINGS AT NALANDA UNIVERSITY, RAJGIR
Document :- Points of Corrigendum

Sr. No.	Document- Clause/ Page No.	Existing provision	Modified provision
1	Price bid - Item No. 309, Pg. no. 66	Rate - -	Rate - 163 Rs./Rmt
#REF!	Price bid - Item added in Plumbing works - Subhead IV	--	Consider item in price bid as per following data.

		Providing ,supplying, Lowering & Laying of Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 : 2000, with (With external bitumen & zinc coating & internal cement mortar lining.) including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete.				
77	Civil DSR 2023(Vol-2), Sub Head-18 (Water Supply),18.73.1	100 mm dia Ductile Iron Double Flanged	Rmt.	2800	2,022.00	56,61,600.00
78	Civil DSR 2023(Vol-2), Sub Head-18 (Water Supply),18.73.2	150 mm dia Ductile Iron Double Flanged	Rmt.	80	2,895.00	2,31,600.00

#REF!	Price bid - Plumbing works - Subhead VI - Item No. 94, Pg. no. 41	Item Description - 143 KLD SBR STP (Without Civil Work)- System will be MBBR STP instead of SBR STP	Item Description - Design, supplying, installing, testing & commissioning of 143 KLD MBBR Sewage Treatment Plant (excluding excavation, back filling & disposal of surplus earth Civil construction work) for the following duty: Nature of effluent - Domestic Sewage. Treated Water standards after treatment pH - 6.0 – 7.5 BOD - Less than 5 Mg/L TSS - Less than- 20 Mg/L COD - Less than 50 Mg/L Oil & Grease - Less than 10 Mg/L Total Phosphate - Less than 4 Mg/L Bar Screen Chamber MOC- SS Air Root Blower - (1 W +1 S) Type of Blower - Twin lobe Root Blower Raw Sewage Transfer Pumps - (1 W +1 S) Type - Non Clog - Submersible Flow - As per Vendor Head - Min. 10 Meter Liquid Handling - Untreated Wastewater MOC of Body- CI Air Diffuser Type of Diffuser - Tube type Type of Bubble - Fine Bubble MOC of Diffuser - High Grade Silicon / EPDM Flow - As per Vendor Moving Bed Bio Reactor Media MOC - PP Size - As per Vendor Type - Moving Bio Reactor Color - As per Vendor Tube Settlers MOC - PP Height / Size - As per Vendor Type - Tube Type Sludge Transfer Pumps - (1 W +1 S) Type - Non Clog - Centrifugal Type Flow - As per Vendor Head - Min. 10 Meter Liquid Handling - Slurry MOC of Body- CI Chlorine Dosing System Flow - As per Vendor Tank MOC - HDPE Tank Size - As per Vendor Filter Feed Pump - (1 W +1 S) Type - Centrifugal Type Flow - As per Vendor Head - Min. 30 Meter Liquid Handling - Clarified Water MOC of Body- CI Pressure Sand Filter Filter Media - Silica Quartz Mechanical Sand with Pebbles & Gravels Type - Vertical Multiport Pressure Vessel MOC - FRP Size - As per Vendor Flow - As per Vendor Activated Carbon Filter Filter media: Activated Carbon to remove floating chlorides. Type - Vertical Multiport Pressure Vessel MOC - FRP Size - As per Vendor
#REF!	Detailed specification - Plumbing works - Subhead VI	143 KLD SBR STP - Detailed specifications not uploaded earlier. System will be MBBR STP instead of SBR STP.	Consider uploaded **STP Technical Specifications (MBBR) System** as part of detailed specification.

#REF!	Price bid - Plumbing works - Subhead VI - Item No. 95, Pg. no. 41	Item Description - Water treatment Plant (500 KLD)	Item Description - Water Treatment Plant (500 KLD) Providing, fixing, testing and commissioning of vertical self supporting Dual Media Filter with auotmatic multi port valve, in FRP vessels, pressure gauges at inlet & outlet, sample cock, air vent valve with piping, C-PVC, SDR 11.0 grade face piping distribution pipe with diffuser on top, CI butterfly valves Automatic Multiport valve and all accessories, with initial charge of filter media for Dual Media filter, complete. (Contractor has the responsibility to check the quality of water from actual water analysis report before procuring the equipments) Dual Media Filter (DMF) Capacity - 62.0 m3/hour Filtration rate (approx)- approx. 62.0 m3/hr Filter dia (approx.) - as per vendor Working pressure - 3.0 Kg/Sq.cm Test pressure - 10.0 Kg/Sq.cm Supply, Installation, testing & commissioning Providing, fixing, testing & commissioning of Disc filter for suitable line size Supply, Installation, testing & commissioning Providing , fixing, testing and commissioning of water softener in FRP vessels (shell & thick dished ends) complete with initial charge of resins, C-PVC SDR 11.0 grade face piping, CI butterfly valves, pressure gauge, hydraulic brine injector, accessories, including suitable PVC/HDPE brine tank of 2 regeneration capacity complete with resins of approved quality and make. (Contractor has the responsibility to check the quality of water from actual water analysis report before procuring the equipments) Hardness Inlet - 100 PPM (Approx.) Outlet - <50 PPM) Capacity - 62.0 m3/hour OBR - 100 m3 Operating pressure - 3.0 kg/Sq.cm Test pressure - 10.0 Kg/Sq.cm Suggested Resin Quantity - 4000 Kg Suggested dia - As per vendor Supply, Installation, testing & commissioning
#REF!	Price bid - Plumbing works - Subhead VI - Item No. 96, Pg. no. 41	Item Description - Variable Speed Hydro-booster System for water supply (2W + 1S) (For augmentation of filling of existing/additional ESRs)	Item Description - Variable Speed Hydro-booster System for water supply (2W + 1S) (For Tower F ESR filling) "Compact self contained Hydro-booster system comprising of following : In-line, vertial multistage/Horizontal Multistage, centrifugal clear water pumps with SS-304 casing, S.S 304 impeller and SS-304 shaft, C.I. Base CED coating & head TEFC motor (with mechanical seal) Vendor to submit performance curves and technical catalogue of the proposed model for review and information. Panel mounted microprocessor multi pump contoller with large graphical display with VGA 240 x 320 pixels and variable frequency drive (VFD) integrated in a single body or as separate components with pressure sensor transmitter (one dedicated to each pump), diodes to indicate pump ready, pump running and fault and capable to communicate with other controllers following MODBUS-RTU or BACNET Class-2 protocol through RS485 port. System should be capable to compensate for frictional losses at lower flows. All alarms should be displayed in the controller. System should be equipped with dry running protection. Indication of all type of faults / on-off status / electrical parameters shall be available on panel and central IBMS monitors. On-off operation for all pumps shall be availble on BMS system Pre-charged diaphragm pressure vessel with interchangeable membrane, charging connection, connected to outlet header with necessary flanges, gaskets, isolating valves, nuts/bolts etc. complete. Set of accessories such as G.I headers for suction and discharge, control valves, non return valves, pressure switches, pressure transducers, pressure gauge, flow meters, inter connecting power and control cabling etc. complete." "Capacity per pump - 20.0 m3/hour Head - 55 mt Pressure vessel - 300 liter or (as per manufacturer recommendation). 1 Set = 4 Nos. Pump (2 Working + 1 Standby) Suction head - flooded positive suction"Variable Speed Hydro-booster System for water supply (2W + 1S) (For Tower F ESR filling) "Compact self contained Hydro-booster system comprising of following : In-line, vertial multistage/Horizontal Multistage, centrifugal clear water pumps with SS-304 casing, S.S 304 impeller and SS-304 shaft, C.I. Base CED coating & head TEFC motor (with mechanical seal) Vendor to submit performance curves and technical catalogue of the proposed model for review and information. Panel mounted microprocessor multi pump contoller with large graphical display with VGA 240 x 320 pixels and variable frequency drive (VFD) integrated in a single body or as separate components with pressure sensor transmitter (one dedicated to each pump), diodes to indicate pump ready, pump running and fault and capable to communicate with other controllers following MODBUS-RTU or BACNET Class-2 protocol through RS485 port. System should be capable to compensate for frictional losses at lower flows. All alarms should be displayed in the controller. System should be equipped with dry running protection. Indication of all type of faults / on-off status / electrical parameters shall be available on panel and central IBMS monitors. On-off operation for all pumps shall be availble on BMS system Pre-charged diaphragm pressure vessel with interchangeable membrane, charging connection, connected to outlet header with necessary flanges, gaskets, isolating valves, nuts/bolts etc. complete. Set of accessories such as G.I headers for suction and discharge, control valves, non return valves, pressure switches, pressure transducers, pressure gauge, flow meters, inter connecting power and control cabling etc. complete." "Capacity per pump - 20.0 m3/hour Head - 55 mt Pressure vessel - 300 liter or (as per manufacturer recommendation).

#REF!	Price bid - Plumbing works - Subhead VI - Item No. 97, Pg. no. 41	Item Description - Variable Speed Hydro-booster System for water supply (2W + 1S) (For New Hostel Buildings)	Item Description - Variable Speed Hydro-booster System for water supply (2W + 1S) (For New Hostel Building) "Compact self contained Hydro-booster system comprising of following : In-line, vertial multistage/Horizontal Multistage, centrifugal clear water pumps with SS-304 casing, S.S 304 impeller and SS-304 shaft, C.I. Base CED coating & head TEFC motor (with mechanical seal) Vendor to submit performance curves and technical catalogue of the proposed model for review and information. Panel mounted microprocessor multi pump contoller with large graphical display with VGA 240 x 320 pixels and variable frequency drive (VFD) integrated in a single body or as separate components with pressure sensor transmitter (one dedicated to each pump), diodes to indicate pump ready, pump running and fault and capable to communicate with other controllers following MODBUS-RTU or BACNET Class-2 protocol through RS485 port. System should be capable to compensate for frictional losses at lower flows. All alarms should be displayed in the controller. System should be equipped with dry running protection. Indication of all type of faults / on-off status / electrical parameters shall be available on panel and central IBMS monitors. On-off operation for all pumps shall be availble on BMS system Pre-charged diaphragm pressure vessel with interchangeable membrane, charging connection, connected to outlet header with necessary flanges, gaskets, isolating valves, nuts/bolts etc. complete. Set of accessories such as G.I headers for suction and discharge, control valves, non return valves, pressure switches, pressure transducers, pressure gauge, flow meters, inter connecting power and control cabling etc. complete." "Capacity per pump - 20.0 m3/hour Head - 50 mt Pressure vessel - 200 liter or (as per manufacturer recommendation). 1 Set = 4 Nos. Pump (2 Working + 1 Standby) Suction head - flooded positive suction"
#REF!	NIT - Pg. no. 83	The Contractor is required to employ necessary Equipment for achieving the progress as per Mile stone schedule given in the preceding pages and the completion of Entire work within **36 months'** time from start of the work.	The Contractor is required to employ necessary Equipment for achieving the progress as per Mile stone schedule given in the preceding pages and the completion of Entire work within **15 months'** time from start of the work.
#REF!	NIT - clause no. 4.14- Payment of final bill, Pg. no. 112	5. Security Deposit of **5% (Five per cent)** of the Contract Value in the form of bank guarantee valid for a Defect liability period from the date of certificate.	5. Security Deposit of **2.5% (Two point Five per cent)** of the Contract Value in the form of bank guarantee valid for a Defect liability period from the date of certificate.
#REF!	NIT - clause no. 4.19. Price adjustment for works, Pg. no. 117	(iv) In the event the price of materials and/or wages of labour required for execution of the work decreases, there shall be a downward adjustment of the cost of work so that such price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard the formula herein stated below under this **Clause 10CC** shall mutatis mutandis apply.	(iv) In the event the price of materials and/or wages of labour required for execution of the work decreases, there shall be a downward adjustment of the cost of work so that such price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard the formula herein stated below under this **Clause 4.19** shall mutatis mutandis apply.
#REF!	NIT Clause no. 4.38 Settlement of disputes by Conciliation and Arbitration	Please add Appendix XVII at the end of this clause	Appendix XVII to be added as per attached sheet.
#REF!	NIT - Special Condition for Electrical works - clause no. 8.1 - Pg. no. 180	All equipment and the entire installation shall be guaranteed against defective materials and workmanship for a period of **12 months** reckoned after the project is commissioned and handed over to the clients along with the 6 sets of completion documents.	All equipment and the entire installation shall be guaranteed against defective materials and workmanship for a period of **24 months** reckoned after the project is commissioned and handed over to the clients along with the 6 sets of completion documents.
#REF!	NIT - Pg. no. 191	Heading written as - ecial Notes:	Read as - Special notes:
#REF!	NIT - Pg. no. 193	The LV Integrator carrying out the SITC of Works shall provide defects-free supply, commissioning and operation of goods supplied by them for a period of **12 months** from the date of hand-over, to be called as Warranty Period.	The LV Integrator carrying out the SITC of Works shall provide defects-free supply, commissioning and operation of goods supplied by them for a period of **24 months** from the date of hand-over, to be called as Warranty Period.
#REF!	NIT - APPENDIX – I GUARANTEE PROFORMA - Pg. no. 215	For a period of **--- Months** from the date of acceptance of the total installation, WE AGREE TO repair or replace to the satisfaction of the Owner, any or all such work that may prove defective in workmanship, equipment or materials within that period, ordinary wear and tear and unusual abuse or neglect excluded, together with any other work, which may be damaged or displaced in so doing.	For a period of **24 Months** from the date of acceptance of the total installation, WE AGREE TO repair or replace to the satisfaction of the Owner, any or all such work that may prove defective in workmanship, equipment or materials within that period, ordinary wear and tear and unusual abuse or neglect excluded, together with any other work, which may be damaged or displaced in so doing.
#REF!	NIT - SPECIAL CONDITIONS FOR FFTG WORK - Clause 21 - GUARANTEE - Pg. no. 222	At the close of the work and before issuance of final certificate of virtual completion by OWNER, the contractor shall furnish written guarantee indemnifying OWNER against defective materials and workmanship for a period of **one year** after completion	At the close of the work and before issuance of final certificate of virtual completion by OWNER, the contractor shall furnish written guarantee indemnifying OWNER against defective materials and workmanship for a period of **24 months** after completion.
#REF!	NIT - SPECIAL CONDITIONS FOR FFTG WORK - Clause 24 - DEFECTS LIABILITY - Pg. no. 223	Defects liability period shall mean **12 calendar months** after OWNER have issued certificate of completion of the whole work. The certificate of completion shall be issued after the necessary tests have been carried out to the satisfaction of OWNER and the required drawings are submitted.	Defects liability period shall mean **24 calendar months** after OWNER have issued certificate of completion of the whole work. The certificate of completion shall be issued after the necessary tests have been carried out to the satisfaction of OWNER and the required drawings are submitted.
#REF!	NIT - GUARANTEE PROFORMA ANNEXURE I - Pg. no. 237	For a period of **1 years (One year)** from the date of acceptance of the total installation, WE AGREE TO repair or replace free of cost to the satisfaction of the owner, any or all such work that may prove defective in workmanship, equipment or materials within that period, ordinary wear and tear and unusual abuse or neglect excluded, together with any other work, which may be damaged or displaced in so doing.	For a period of **2 years (Two year)** from the date of acceptance of the total installation, WE AGREE TO repair or replace free of cost to the satisfaction of the owner, any or all such work that may prove defective in workmanship, equipment or materials within that period, ordinary wear and tear and unusual abuse or neglect excluded, together with any other work, which may be damaged or displaced in so doing.
Recommendation on queries raised by Bidders			

#REF!	NIT - Eligibility criteria, Pg. No. 39	"similar work" shall mean any project for Development of Residences for Faculty/Staff/Students of an Institutional Campus of R.C.C. framed structure /load bearing structure buildings including internal water supply, sanitary installation, internal electrical installation, HVAC installation and external infrastructure of Roads, Pathways, Storm water drains, etc., all composite executed in India under one agreement.	"similar work" shall mean Development of an **institutional campus consisting of Admin building Or academic building or other institution-related building or residences for staff/students, hostel bldgs.** of R.C.C. framed structure /load-bearing buildings including internal water supply, sanitary installation, internal electrical installation, HVAC installation and external infrastructure of roads, pathways, stormwater drains, etc., all composite executed in India under one agreement.
#REF!	NIT - Pg. No. 59	FORM G GENERAL INSTRUCTIONS FOR THE AFFIDAVIT: 1. The affidavit shall be executed on appropriate non-judicial stamp paper of minimum value as applicable in the State of Bihar and notarized by a Notary Public;	FORM G GENERAL INSTRUCTIONS FOR THE AFFIDAVIT: 1. The affidavit shall be executed on appropriate non-judicial stamp paper **of 100 rs. and notarized by a Notary Public done anywhere in India.** Note:Nalanda university to check with their account dept. and do the correction if necessary.
#REF!	NIT - Pg. No. 63	FORM I GENERAL INSTRUCTIONS FOR THE AFFIDAVIT FOR SITE VISIT: The affidavit shall be executed on appropriate non-judicial stamp paper of minimum value as applicable in the State of Bihar and notarized by a Notary Public;	FORM I GENERAL INSTRUCTIONS FOR THE AFFIDAVIT FOR SITE VISIT: The affidavit shall be executed on appropriate non-judicial stamp paper **of 100 rs. and notarized by a Notary Public done anywhere in India.** Note:Nalanda university to check with their account dept. and do the correction if necessary.