

CORRIGENDUM No.-1

Name of Work : **IFB No.CGI-6122-P21 Construction of Office Building for Centre of Excellence for Energy Studies (CoEES) and Pipeline Headquarters(PHQ) at Pipeline Headquarters(PHQ) Township, Oil India Limited (OIL), Guwahati Assam.**

Ref : IFB/ NIT No.: CGI-6122-P21

The following Corrigendum is hereby made to above referred NIT for the work of “Construction of Office Building for Centre of Excellence for Energy Studies (CoEES) and Pipeline Headquarters (PHQ) at Pipeline Headquarters(PHQ) Township, Oil India Limited (OIL), Guwahati Assam”

Reference		As written	To be read as
Price Bid:			
Sub-Head :Electrical Items No. 257	Page No. 1156	<u>Supply, Installation, Testing and:</u> Supply, Installation, Testing and Commissioning of Layer 3 fiber Aggregation networking switch, 24 nos. SFP+ fiber optics ports, 1 AC power supply built in and inclusive of redundant power supply and Redundant fans as per technical specification etc. as required.	<u>Supply, Installation, Testing and :</u> Supply, Installation, Testing and Commissioning of ruggedized, IP66 rated outdoor pole mountable enclosure for housing power supplies, fiber LIUs, and industrial networking switch, with suitable provisions for DIN rails, cable management as per technical specification etc. as required.
Sub-Head :Electrical Items No. 312	Page No. 1180	<u>Supply , Installation , Testing and comm:</u> Supply , Installation , Testing and commissioning of CCTV Server Rack (12U) Floor Mounted Rack complete as required as per specifications	<u>Supply , Installation , Testing and comm:</u> Supply , Installation , Testing and commissioning of Field CCTV Rack (6U) Wall Mounted Rack complete as required as per specifications
Sub-Head : HVAC Item No. 51	Page No. 1261	<u>Supplying, laying/ fixing, testing:</u> Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported complete as per specifications, requirement, standard and drawings. Supplying, fixing, testing and commissioning of following sizes Motorized Butterfly Valve with CI Body, SS Disc, O - ring and minimum PN-16 pressure rating,	Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported complete as per specifications, requirement, standard and drawings. BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot water circulation as specified. - 250 mm

		<p>conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20 mA electric signal and providing similar transduced feedback output to control system as required. - 150 mm</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified. - 250 mm</p>	
<p>Sub-Head : HVAC Item No. 52</p>	<p>Page No. 1262</p>	<p>Supplying, laying/ fixing, testing: Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported complete as per specifications, requirement, standard and drawings.</p> <p>Supplying, fixing, testing and commissioning of following sizes Motorized Butterfly Valve with CI Body, SS Disc, O - ring and minimum PN-16 pressure rating, conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20 mA electric signal and providing similar transduced feedback output to control system as required. - 150 mm</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified. - 150 mm</p>	<p>Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated tothe same specifications as the connected piping andadequately supported complete as per specifications, requirement, standard and drawings.</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified. - 150 mm</p>
<p>Sub-Head : HVAC Item No. 53</p>	<p>Page No. 1264</p>	<p>Supplying, laying/ fixing, testing: Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch,</p>	<p>Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated tothe same specifications as the connected</p>

		<p>etc. in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported complete as per specifications, requirement, standard and drawings.</p> <p>Supplying, fixing, testing and commissioning of following sizes Motorized Butterfly Valve with CI Body, SS Disc, O - ring and minimum PN-16 pressure rating, conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20 mA electric signal and providing similar transduced feedback output to control system as required. - 150 mm</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot water circulation as specified. - 125 mm</p>	<p>piping and adequately supported complete as per specifications, requirement, standard and drawings.</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot water circulation as specified. - 125 mm.</p>
<p>Sub-Head : HVAC Item No. 54</p>	<p>Page No. 1265</p>	<p>Supply, installation, testing and commissioning:</p> <p>Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported complete as per specifications, requirement, standard and drawings.</p> <p>Supplying, fixing, testing and commissioning of following sizes Motorized Butterfly Valve with CI Body, SS Disc, O - ring and minimum PN-16 pressure rating, conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20 mA electric signal and providing similar transduced feedback output to control system as required. - 150 mm</p> <p>BUTTERFLY VALVE (MANUAL)</p>	<p>Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported complete as per specifications, requirement, standard and drawings.</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot water circulation as specified. - 80 mm</p>

		with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified. - 80 mm	
Sub-Head : HVAC Item No. 55	Page No. 1266	<p>Supply, installation, testing and commissioning: Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, air vent, flow switch, etc. in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported complete as per specifications, requirement, standard and drawings.</p> <p>Supplying, fixing, testing and commissioning of following sizes Motorized Butterfly Valve with CI Body, SS Disc, O - ring and minimum PN-16 pressure rating, conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20 mA electric signal and providing similar transduced feedback output to control system as required. - 150 mm</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified. - 65 mm</p>	<p>Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated tothe same specifications as the connected piping and adequately supported complete as per specifications, requirement, standard and drawings.</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified. - 65 mm</p>
Sub-Head : HVAC Item No. 56	Page No. 1267	<p>Supply, installation, testing and commissioning: Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated tothe same specifications as the connected piping andadequately supported complete as per specifications, requirement, standard and drawings.</p> <p>Supplying, fixing, testing and commissioning of following sizes</p>	<p>Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch, etc. in the chilled water plumbing duly insulated tothe same specifications as the connected piping andadequately supported complete as per specifications, requirement, standard and drawings.</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified. - 50 mm</p>

		<p>Motorized Butterfly Valve with CI Body, SS Disc, O - ring and minimum PN-16 pressure rating, conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20 mA electric signal and providing similar transduced feedback output to control system as required. - 150 mm</p> <p>BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified. - 50 mm</p>	
<p>Sub-Head : BMS Works Item No. 9</p>	<p>Page No. 1352</p>	<p>Providing, fixing, testing and commission water factory: Providing, fixing, testing and commissioning of floor mounted chilled water factory built Air handling units Double skin type with 40 mm thick panels consisting of G.I casing of thickness 0.6 mm outside layer and 0.6 mm inside layer with zinc coating and polyurethane foam (PUF) insulation having density of 42 kg/m³, complete with backward curved Plug type direct driven fan with IP - 21 VFD suitable for static pressure as detailed below, chilled water cooling coil with aluminium finned copper tubes. Filter section having 50 mm thick MERV-8 pre filters, MERV-13 fine filter, TEFC, IE-3 motor suitable for 415 +10% volts, 50 Hz, 3 phase AC supply, drain connections with stainless steel drain pan (18 Ga) with PUF insulation, fire retardent canvas connection and necessary vibration isolation arrangement to avoid any vibration alongwith etc. complete as per specifications and drawings. AHU coils shall be</p>	<p>Supply, Installation, Testing & Commissioning of</p> <p>Supply, Installation, Testing & Commissioning of True IP Based Standalone 32 Bit Intelligent, BTL Listed & UL certified interoperable DDC as per the specification. Each DDC Controller shall have inbuilt IP port & shall directly connect to the Network switches. No Supervisory Controller/Router shall be acceptable for IP conversion. The DDC shall be Programmable and Application specific. The Controller shall have minimum 18 onboard points and can be expandable upto max of 52 points. The DDC must support trending & scheduling at Controller level. All trend data must be created and saved to the automation station to achieve gap-free trend documentation during communication failure. The above shall be housed in IP 55 vandal proof, lockable & secure MS Cabinets to be supplied along with all necessary switchgear protections as required. Number of controllers shall have spare capacity of 15% for future expansion. DDC for AHU's /HRW/ Ventilation Fans</p>

		AHRI/Eurovent certified. - DDC for AHU's /HRW/ Ventilation Fans.	
Sub-Head : BMS Works Item No. 10	Page No. 1353	<p>Providing, fixing, testing and commission AHU:</p> <p>Providing, fixing, testing and commissioning of floor mounted chilled water factory built Air handling units Double skin type with 40 mm thick panels consisting of G.I casing of thickness 0.6 mm outside layer and 0.6 mm inside layer with zinc coating and polyurethane foam (PUF) insulation having density of 42 kg/m³, complete with backward curved Plug type direct driven fan with IP - 21 VFD suitable for static pressure as detailed below, chilled water cooling coil with aluminium finned copper tubes. Filter section having 50 mm thick MERV-8 pre filters, MERV-13 fine filter, TEFC, IE-3 motor suitable for 415 +10% volts, 50 Hz, 3 phase AC supply, drain connections with stainless steel drain pan (18 Ga) with PUF insulation, fire retardant canvas connection and necessary vibration isolation arrangement to avoid any vibration along with etc. complete as per specifications and drawings. AHU coils shall be AHRI/Eurovent certified. - DDC for Electrical System.</p>	<p>Supply, Installation, Testing & Commissioning :</p> <p>Supply, Installation, Testing & Commissioning of True IP Based Standalone 32 Bit Intelligent, BTL Listed & UL certified interoperable DDC as per the specification. Each DDC Controller shall have inbuilt IP port & shall directly connect to the Network switches. No Supervisory Controller/Router shall be acceptable for IP conversion. The DDC shall be Programmable and Application specific. The Controller shall have minimum 18 onboard points and can be expandable upto max of 52 points. The DDC must support trending & scheduling at Controller level. All trend data must be created and saved to the automation station to achieve gap-free trend documentation during communication failure. The above shall be housed in IP 55 vandal proof, lockable & secure MS Cabinets to be supplied along with all necessary switchgear protections as required. Number of controllers shall have spare capacity of 15% for future expansion: DDC for Electrical System.</p>
Sub-Head : BMS Works Item No. 11	Page No. 1355	<p>Providing, fixing, testing and commission AHU:</p> <p>Providing, fixing, testing and commissioning of floor mounted chilled water factory built Air handling units Double skin type with 40 mm thick panels consisting of G.I casing of thickness 0.6 mm outside layer and 0.6 mm inside layer with zinc coating and polyurethane foam (PUF) insulation having density of 42 kg/m³, complete with</p>	<p>Supply, Installation, Testing & Commissioning of:</p> <p>Supply, Installation, Testing & Commissioning of True IP Based Standalone 32 Bit Intelligent, BTL Listed & UL certified interoperable DDC as per the specification. Each DDC Controller shall have inbuilt IP port & shall directly connect to the Network switches. No Supervisory Controller/Router shall be acceptable for IP conversion. The DDC shall be</p>

	backward curved Plug type direct driven fan with IP - 21 VFD suitable for static pressure as detailed below, chilled water cooling coil with aluminium finned copper tubes. Filter section having 50 mm thick MERV-8 pre filters, MERV-13 fine filter, TEFC, IE-3 motor suitable for 415 +10% volts, 50 Hz, 3 phase AC supply, drain connections with stainless steel drain pan (18 Ga) with PUF insulation, fire retardant canvas connection and necessary vibration isolation arrangement to avoid any vibration alongwith etc. complete as per specifications and drawings. AHU coils shall be AHRI/Eurovent certified. - DDC for Plumbing System.	Programmable and Application specific. The Controller shall have minimum 18 onboard points and can be expandable upto max of 52 points. The DDC must support trending & scheduling at Controller level. All trend data must be created and saved to the automation station to achieve gap-free trend documentation during communication failure. The above shall be housed in IP 55 vandal proof, lockable & secure MS Cabinets to be supplied along with all necessary switchgear protections as required. Number of controllers shall have spare capacity of 15% for future expansion DDC for Plumbing System
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In addition to above, 01 (one) additional Item has been incorporated in the Tender/ Price Bid as follows:

HVAC Works:

SI. No.	Description of Item	Unit	Quantity
153	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	Sq.m.	50

All other terms and conditions shall remain unchanged. This corrigendum shall be the part of tender document and **Agency shall submit/ upload this Corrigendum No.-1 duly signed & stamped along with Technical Bid.** Amendment/Corrigendum, if any would be hosted on the website only. Hence, Prospective agencies/bidders are advised to visit OIL website regularly for above purpose.

Agencies/Bidders should quote in the corrected PROFORMA-B (PRICE BID) already uploaded under "NOTES & ATTACHMENTS "

**General Manager (C&P)/L
CONTRACTS SECTION
PHQ, OIL, GUWAHATI**