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	Supply, Installation, Testing and: 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.	Supply, Installation, Testing and: 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	Supply , Installation , Testing and comm: Supply , Installation , Testing and commissioning of CCTV Server Rack (12U) Floor Mounted Rack complete as required as per specifications	Supply , Installation , Testing and comm: 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	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. 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 tothe 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 eater circulation as specified. 250 mm	

		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 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	
Sub-Head : HVAC Item No. 52	Page No. 1262	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. 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 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	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, standardard and drawings. 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
Sub-Head : HVAC Item No. 53	Page No. 1264	Supplying, laying/ fixing, testing: Supply, installation, testing and commissioning of following valves, strainers, gauges, flexible connection, airvent, flow switch,	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 etc. in the chilled water plumbing complete as per specifications, dulv insulated tothe same requirement, standardard and specifications as the connected drawings. piping andadequately supported **BUTTERFLY VALVE (MANUAL)** complete as per specifications, with C I body SS Disc, Nitrile requirement, standardard Rubber Seal & O- Ring PN 16 drawings. pressure rating for chilled Supplying, fixing, testing and water/hot eater circulation as commissioning of following sizes specified. - 125 mm. 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 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. - 125 mm Sub-Head Page Supply, installation, testing and Supply, installation, testing **HVAC** No. commissioning of following and commissioning: valves, strainers, gauges, flexible Item No. 1265 Supply, installation, testing and 54 connection, airvent, flow switch, commissioning of following etc. in the chilled water plumbing valves, strainers, gauges, flexible insulated tothe same connection, airvent, flow switch, specifications as the connected etc. in the chilled water plumbing piping andadequately supported insulated tothe duly same complete as per specifications, specifications as the connected requirement, standardard and piping andadequately supported drawings. BUTTERFLY VALVE (MANUAL) complete as per specifications, with C I body SS Disc, Nitrilé Rubber Seal & O- Ring PN 16 requirement, standardard drawings. pressure rating for chilled Supplying, fixing, testing and water/hot eater circulation as commissioning of following sizes specified. - 80 mm 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 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 80 mm	
Sub-Head: HVAC Item No. 55	Page No. 1266	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, standardard 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, 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 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	
Sub-Head : HVAC Item No. 56	Page No. 1267	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, standardard and drawings. Supplying, fixing, testing and commissioning of following sizes	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, standardard and drawings. 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

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 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 Sub-Head : BMS Works 1352 Page 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 polyurethene foam (PUF) insulation having density of 42 kg/m3,complete with backward curved Plug type direct driven fan with IP - 21 VFD suitable for 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 carvas connection and necessary vibration isolation arrangement to avoid any vibration alongwith etc. complete as per specifications and drawings. AHU coils shall be			T	T
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 Sub-Head: BMS Works Item No. 9 Page, No. 1352 Item No. 9 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 polyurethene 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.			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	
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 polyurethene 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. Commissioning of Supply, Installation, Testing & Commissioning of True IP Based Standalone 32 Bit Intelligent, BTL isted & UL certified interoperable DDC as per the specification. Each DDC Controller shall have inbuilt IP port & shall directly connect to the Network switches. No Supervisor, Controller shall have inbuilt IP port & shall directly connect to the Network switches. No Supervisor, Tending a Controller shall have inbuilt IP port & shall be acceptable for IP conversion. The DDC shall be Programmable and Application specific. The Controller shall have inbuilt IP port & shall be acceptable for IP conversion. The DDC must support trending & scheduling at Controller shall have spandable upto max of 52 points. The DDC must support trending & scheduling at Controller shall have spandable upto max of 52 points. The DDC must support trending & scheduling at Controller shall have inbuilt IP port & shall be acceptable for IP conversion. The DDC must support trending & scheduling at Controller shall have inbuilt IP port & shall be acceptable for IP conversion. The DDC must support trending & scheduling at Controller shall have i			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	
	: BMS Works	No.	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 polyurethene 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.	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

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

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% 3 volts.50 Hz, 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 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 trendina & schedulina 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 supplied along with all necessary switchgear protections required. Number of controllers shall have spare capacity of 15% for future expansion DDC for Plumbing System

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	Sqm.	50
	of powder coated aluminium with aluminium volume control		
	dampers with anti smudge ring & removable core.		

All other terms and conditions shall remain unchanged. This corrigendum shall be the part of tender document and <u>Agency shall submit/ upload this Corrigendum No.-1 duly signed & stamped along with Technical Bid.</u> 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)P/L CONTRACTS SECTION PHQ, OIL, GUWAHATI