

Corrigendum points for tender - "Supply of Single Mode FO Cable, FO Acces (NRL REF: COL. No. : OC03000151/HIR)"

SL	Item	Material Code	RFQ Page No.	Existing Description as per the RFQ	Required to change/include/delete as highlighted as RED
1	0 0 10	I-CABL-FO06C-02	28	OFC cable;Armored Single Mode(9.2/125µm)	
				1.Item Description: 6 Fiber outdoor armored SM cable, OS2 OFC cable;Armored Single Mode(9.2/125µm); Direct buried type/ Corrugated steel tape armored, double jacketed optical fiber cable having 6 colour coded dual window single mode (DWSM) optical fiber in gel filled loose buffer tubes. The design shall be as per the latest versions of recommendations and specifications made by International Committees/Organizations such as ITU-T, IEC, TIA/EIA etc).	1.Item Description: 6 Fiber outdoor armored SM cable, OS2 OFC cable;Armored Single Mode(9.2/125µm); Direct buried type/ Corrugated steel tape armored, single/ double jacketed optical fiber cable having 6 colour coded dual window single mode (DWSM) optical fiber in gel filled loose buffer tubes. The design shall be as per the latest versions of recommendations and specifications made by International Committees/Organizations such as ITU-T, IEC, TIA/EIA etc).
				2. Technical Specification:	2. Technical Specification:
				a)Cable type:6 fiber Single Mode(SM), Armoured, Loose-tube, Gel filled cable complying to ISO/IEC 11801, EN50173, ANSI/TIA 568-C.3; suitable for use in direct burial, outdoor ducts and backbone cabling	a)Cable type:6 fiber Single Mode(SM), Armoured, Loose-tube, Gel filled cable complying to ISO/IEC 11801, EN50173, ANSI/TIA 568-C.3; suitable for use in direct burial, outdoor ducts and backbone cabling
				b)Fiber Type: Single Mode, 9/125 micron primary coated buffers, OS2 (IEC 60793-2-50, B1.3 and ITU T G652.d);	b)Fiber Type: Single Mode, 9/125 micron primary coated buffers, OS2 (IEC 60793-2-50, B1.3 and ITU T G652.d);
				c)Armour: Corrugated Steel Tape Armour of min. 0.15 mm thickness;	c)Armour: Corrugated Steel Tape Armour of min. 0.15 mm thickness;
				d)Cable Construction Type: BELLCORE GR 20 / IEC 794-1;	d)Cable Construction Type: BELLCORE GR 20 / IEC 794-1;
				e)Attenuation:	e)Attenuation:
				i)1310nm <=0.34 db/Km MAX	i)1310nm <=0.34 db/Km MAX
				ii)1550nm <=0.22 db/Km MAX	ii)1550nm <=0.22 db/Km MAX
				iii)1380-1386nm <= 0.31db/Km	iii)1380-1386nm <= 0.31db/Km
				f)Loose tube material: Single PBTP Loose tube filled with water blocking Thixotropic gel;	f)Loose tube material: Single PBTP Loose tube filled with water blocking Thixotropic gel;
				g)Jacket material: HDPE outer jacket 2 mm thickness or higher;	g)Jacket material: HDPE outer jacket 1.8mm thickness or higher;
				h)Strength members: Water Swellable Glass yarn strength members;	h)Strength members: Water Swellable Glass yarn strength members;
				i)Tensile Strength:1250 N;	i)Tensile Strength:1250 N;
				j)Crush Resistance:3000 N;	j)Crush Resistance:3000 N;
				k)Min Proff Strength (Kpsi) :100;	k)Min Proff Strength (Kpsi) :100;
				l)Cable Diameter :10.0 + - 0.5 mm;	l)Cable Diameter :10.0 + - 0.5 mm;
				m)Operating Temperature -40 Degree C to +75 Degree C;	m)Operating Temperature -40 Degree C to +70 Degree C;
				n)UV resistant/Termite Protection: Yes	n)UV resistant/Termite Protection: Yes
				o)Mechanical & Physical properties of the cable: As per latest IEC 60794-1-2 standard.	o)Mechanical & Physical properties of the cable: As per latest IEC 60794-1-2 standard.
				n)Test Reports: OEM factory test reports must be provided against each drum / roll of fiber cable.	n)Test Reports: OEM factory test reports must be provided against each drum / roll of fiber cable.
				o)3rd Party Tests: Must be approved by Intertel ETL labs for ANSI/TIA 568C Fiber channel requirement;	o)3rd Party Tests: Must be approved by Intertel ETL labs for ANSI/TIA 568C Fiber channel requirement;

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2	00030	I-OFC-ACC-06	30	SC/LC duplex SM patch cord	SC/LC duplex SM patch cord
				Item:SC to LC Duplex Patch Cord SM(Single Mode);	Item:SC to LC Duplex Patch Cord SM(Single Mode);
				Specifications:	Specifications:
				1)Make and Type: SC to LC Duplex tuned Fiber Optic Patch Cord 3 Mtr, 9/125 Micron;	1)Make and Type: SC to LC Duplex tuned Fiber Optic Patch Cord 3 Mtr, 9/125 Micron;
				2)Cable Sheath: LSZH	2)Cable Sheath: LSZH
				3)Cable Diameter:3.6 mm twin zip	3)Cable Diameter:3.6 mm twin zip
				4)cable Length:3 Meter;	4)cable Length:3 Meter;
				5)Ferrule: Ceramic;	5)Ferrule: Ceramic;
				6)Insertion Loss:MAX 0.3 db;	6)Insertion Loss:MAX 0.3 db;
				7)Return Loss:>45 db;	7)Return Loss:>45 db;
				8)Temperature Range: -25 Degree C to +70 Degree C;	8)Temperature Range: -25 Degree C to +70 Degree C;
				9)Approvals:Must be certified by Intertek/ETL Labs for conformance to ANSI/TIA 568C fiber channel requirement;	9)Approvals:Must be certified by Intertek/ETL Labs for conformance to ANSI/TIA 568C fiber channel requirement;
				10)Compliance: ROHS / ELV Compliant	10)Compliance: ROHS / ELV Compliant
				11) Make: Digilink/Tyco	11) Make: Digilink/Tyco or ISO Certified Manufacturer
3	00110	I-OFC-ACC-21	34	Notes: The Bidder should provide suitable Test Report of the supplied Items	Notes: The Bidder should provide suitable Test Report of the supplied Items
				Outdoor wallmount JB for FO cable join	Outdoor wallmount JB for FO cable join
				Item: Fiber Distribution Mounting terminal Box upto 24 single mode(SM)fiber optic connections/splicing	Item: Fiber Distribution Mounting terminal Box upto 24 single mode(SM)fiber optic connections/splicing
				Specifications:	Specifications:
				i)The Fiber distribution terminal box shall be suitable for terminate, splice and interconnect up to 24 Single mode fiber optic cables in an outdoor	i)The Fiber distribution terminal box shall be suitable for terminate, splice and interconnect up to 24 Single mode fiber optic cables in an outdoor
				ii)The cabinet mmust be configured with 2 nos.splice trays for splicing the cable to connector pigtails	ii)The cabinet mmust be configured with 2 nos.splice trays for splicing the cable to connector pigtails
				ii)Should be fully loaded and factory fitted assembly with no assembling required during installation at site;	ii)Should be fully loaded and factory fitted assembly with no assembling required during installation at site;
				iii)High Density: 1U -24 SM Fiber terminations	iii)High Density: 24 SC SM Fiber terminations
				iv)Should be supplied loaded with LC adapters, splice trays, Pigtails and fiber management,etc rings	iv)Should be supplied loaded with LC adapters, splice trays, Pigtails and fiber management,etc rings
				iv)Min 4 nos. cable entry points at bottom side with plug;	iv)Min 4 nos. cable entry points at bottom side with plug;
				v)Storage and operation temperature: -40°C to + 70°C	v)Storage and operation temperature: -40°C to + 70°C
				vi)Installation temperature: -30°C to + 70°C	vi)Installation temperature: -30°C to + 70°C
				vii)Rating: NEMA-4	vii)Rating: NEMA-4/ETL or Intertek;
				viii)Enclosure :IP65	viii)Enclosure :IP65/ETL or Intertek;
				ix)Lockable facility;	ix)Lockable facility;
				3)Approvals:Must be certified by Intertek/ETL Labs for conformance to ANSI/TIA 568C fiber channel requirement	3)Approvals:Must be certified by Intertek/ETL Labs for conformance to ANSI/TIA 568C fiber channel requirement
				4)Size : Compact in size;	4)Size : Compact in size;
				5)Compliance: ROHS / ELV Compliant	5)Compliance: ROHS / ELV Compliant

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SL	Item	Material Code	RFQ Page No.	Existing Description as per the RFQ	Required to change/include/delete as highlighted as RED
4	00130	I-OFC-ACC-23	35	High reliability Cat6 Ethernet/LAN cable	High reliability Cat6 Ethernet/LAN cable
				Item:CAT6 U/UTP Cable outdoor cable;	Item:CAT6 U/UTP Cable outdoor cable;
				Type :	Type :
				Cat6 U/UTP 4 pair Cable, solid bare copper with cross filler pair separator having wiremess protection cover	Cat6 U/UTP 4 pair Cable, solid bare copper with cross filler pair separator having wiremess protection cover
				Application :	Application :
				Outdoor usage suitable in an IP65 environment	Suitable for outdoor environment
				Jacketing :	Jacketing :
				a) Double jacketed	a) Double jacketed
				b) Inner Jacket - Polyethylene	b) Inner Jacket - Polyethylene/ LSZH
				c) Outer jacket - LSZH	c) Outer jacket - LSZH/ FR-PVC
				Max pull force :80 N	Max pull force :80 N
				Frequency :Tested upto 250 MHz	Frequency :Tested upto 250 MHz
				Outer Diameter :7.2 mm	Outer Diameter :7.2 mm
				Packaging :500m reel	Packaging :500m reel
				Fire Rating :	Fire Rating :
				a) Shall meet IEC 60754-1 for Toxicity	a) Shall meet IEC 60754-1 for Toxicity
				b) Shall meet IEC 60754-2 for Acid Gas	b) Shall meet IEC 60754-2 for Acid Gas
				Outer jacket color :Black	Outer jacket color :Black
				Compliance :ROHS/ELV compliant	Compliance :ROHS/ELV compliant

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5	00170	I-CABL-FO12C-00	37	12 Core SM Armored OFC cable (9.2/125µm)	12 Core SM Armored OFC cable (9.2/125µm)
				1.Item Description: 12 Fiber outdoor armored SM cable, OS2 OFC cable;Armored Single Mode(9.2/125µm); Direct buried type/ Corrugated steel tape armored, double jacketed optical fiber cable having 12 colour coded dual window single mode (DWSM) optical fiber in gel filled loose buffer tubes. The design shall be as per the latest versions of recommendations and specifications made by International Committees/Organizations such as ITU-T, IEC, TIA/EIA etc).	1.Item Description:12 Fiber outdoor armored SM cable, OS2 OFC cable;Armored Single Mode(9.2/125µm); Direct buried type/ Corrugated steel tape armored, single /double jacketed optical fiber cable having 12 colour coded dual window single mode (DWSM) optical fiber in gel filled loose buffer tubes. The design shall be as per the latest versions of recommendations and specifications made by International Committees/Organizations such as ITU-T, IEC, TIA/EIA etc).
				2.Technical Specification:	2.Technical Specification:
				a)Cable type:12 fiber Single Mode, Armoured, Loose-tube, Gel filled cable complying to ISO/IEC 11801, EN50173, ANSI/TIA 568-C.3; suitable for use in direct burial, outdoor ducts and backbone cabling	a)Cable type:12 fiber Single Mode, Armoured, Loose-tube, Gel filled cable complying to ISO/IEC 11801, EN50173, ANSI/TIA 568-C.3; suitable for use in direct burial, outdoor ducts and backbone cabling
				b)Fiber Type:Single Mode, 9/125 micron primary coated buffers, OS2 (IEC 60793-2-50, B1.3 and ITU T G652.d)	b)Fiber Type:Single Mode, 9/125 micron primary coated buffers, OS2 (IEC 60793-2-50, B1.3 and ITU T G652.d)
				c)Armour:Corrugated Steel Tape Armour of min. 0.15 mm thickness;	c)Armour:Corrugated Steel Tape Armour of min. 0.15 mm thickness;
				d)Cable Construction Type: BELLCORE GR 20 / IEC 794-1;	d)Cable Construction Type: BELLCORE GR 20 / IEC 794-1;
				e)Attenuation: i)1310nm <=0.34 db/Km MAX ii)1550nm <=0.22 db/Km MAX iii)1380-1386nm <= 0.31db/Km	e)Attenuation: i)1310nm <=0.34 db/Km MAX ii)1550nm <=0.22 db/Km MAX iii)1380-1386nm <= 0.31db/Km
				f)Loose tube material:Single PBTP Loose tube filled with water blocking Thixotropic gel;	f)Loose tube material:Single PBTP Loose tube filled with water blocking Thixotropic gel;
				g)Jacket material:HDPE outer jacket 2 mm thickness;	g)Jacket material:HDPE outer jacket 1.8 mm thickness;
				h)Strength members:Water Swellable Glass yarn strength members;	h)Strength members:Water Swellable Glass yarn strength members;
				i)Tensile Strength:1250 N;	i)Tensile Strength:1250 N;
				j)Crush Resistance:3000 N;	j)Crush Resistance:3000 N;
				k)Min Proff Strength (Kpsi) :100;	k)Min Proff Strength (Kpsi) :100;
				l)Cable Diameter :10.0 + - 0.5 mm;	l)Cable Diameter :10.0 + - 0.5 mm;
				m)Operating Temperature -40 Degree C to +75 Degree C;	m)Operating Temperature -40 Degree C to + 70 Degree C;
				n)UV resistant/Termite Protection: Yes	n)UV resistant/Termite Protection: Yes
				o)Mechanical & Physical properties of the cable: As per latest IEC 60794-1-2 standard.	o)Mechanical & Physical properties of the cable: As per latest IEC 60794-1-2 standard.
				n)Test Reports: OEM factory test reports must be provided against each drum / roll of fiber cable.	n)Test Reports: OEM factory test reports must be provided against each drum / roll of fiber cable.
				o)3rd Party Tests: Must be approved by Intertel ETL labs for ANSI/TIA 568C Fiber channel requirement.	o)3rd Party Tests: Must be approved by Intertel ETL labs for ANSI/TIA 568C Fiber channel requirement.
6			1	Bid submission end date:	Extended to: 27/05/2019 at 11.00 AM
				Bid opening date (Technical):	Extended to: 28/05/2019 after 11.00 AM

All other terms & conditions of the Tender Document (OC03000151/HIR) remain unchanged.

GM (Commercial); I/C
Numaligarh Refinery Limited