THE PROVISION OF SUPPLY AND ENGINEERING SERVICES - DESIGN AND SURVEY, INSTALLATION, TESTING & COMMISSIONING OF FIBRE OPTIC CABLE

PROPOSED SOR OSP WORKS

ITEM NO.	DESCRIPTIONS	UNIT		SOR
	EXCAVATIONS, BREAKING UP, BORING AND PRESSING	NG		
Α	EXCAVATION OF TRENCHES AND PITS - SUPPLY & INSTALLATION			
1-1	BREAK/REMOVE SOFT ROCK	MTR ³	RM	59.00
1-2	BREAK/REMOVE SOLID ROCK	MTR ³	RM	200.79
1-3	BREAK/REMOVE HARD ROCK	MTR ³	RM	200.79
1-4	BREAKING OUT CONCRETE FOUNDATION	MTR ³	RM	104.76
1-5	BREAKING OUT REINFORCED-CONCRETE FOUNDATION	MTR ³	RM	209.52
1-6	BREAKING OUT REINFORCED-CONCRETE MANHOLE	MTR ³	RM	104.76
1-7	EXCAVATION IN NORMAL SOIL UP TO 1.8M	MTR ³	RM	14.50
1-8	DIG PILOT HOLE FROM GROUND LEVEL TO 1.5M IN GRASS	MTR	RM	22.30
1-9	DEWATERING IN WATER-LOGGED SOIL	DAY	RM	1,225.11
1-10	ADDITIONAL CHARGE FOR SHUTT TRENCH IN UNSTABLE SOIL	MTR ²	RM	22.31
1-11	ADDITIONAL CHARGE FOR STEEL NETTING	MTR ²	RM	8.73
1-12	CHARGE FOR ADDITIONAL EARTH BACKFILLING AND RAMMING	MTR ³	RM	9.70
1-13	CHARGE FOR CHRUSHER-RUN BACKFILLING	MTR ²	RM	10.67
1-14	CHARGE FOR ADDITIONAL SAND BACKFILLING AND RAMMING	MTR ³	RM	24.25
1-15	CHARGE FOR ADDITONAL CONCRETE BACKFILLING	MTR ³	RM	157.14
1-16	CHARGE FOR ADDITIONAL REINFORCED-CONCRETE	MTR ³	RM	700.34
1-17	CHARGE FOR ADDITIONAL BRICKCON	MTR ³	RM	157.14
1-18	PILING BAKAU PILE 100MM X 6M	EACH	RM	38.00
1-19	PILING BAKAU PILE 75MM X 6M	EACH	RM	33.95
1-20	PILING EXTRA BAKAU PILE 100MM X 6M	EACH	RM	43.65
1-19	PILING EXTRA BAKAU PILE 75MM X 6M	EACH	RM	43.65
1-21	SHORING	MTR	RM	1.50
В	BREAKING UP OF PAVED SURFACES, CARRIAGE-WAY/SIDEWALK (INCLUSIVE OF REINSTATEMENT WORKS) - SUPPLY & INSTALLATION			
1-1	CUT/REMOVE ASPHALT SURFACE 750MM WIDE	MTR	RM	34.39
1-2	CUT/REMOVE ASPHALT SURFACE 75MM WIDE	MTR	RM	5.40
1-3	50MM THICK ACWC ROAD PAVEMENT	MTR ²	RM	39.90
1-4	ROAD MARKING THERMOPLASTIC COLOUR (YELLOW)	MTR	RM	22.00
1-5	ROAD MARKING THERMOPLASTIC COLOUR (WHITE)	MTR	RM	22.00
1-6	REMOVE/REPLACE PAVING SLAB	MTR	RM	6.00
1-7	REMOVE/REPLACE KERB & CONCRETE BACKING	MTR	RM	22.30
	DUCT SYSTEM AND INSTALLATION			
	CONSTRUCTION OF MANHOLE/HANDHOLE - INCLUSIVE OF			
	MOBILIZATION, EXCAVATION, ROAD WARNING SIGNS, SUPPLY AND			
С	INSTALLATION OF PRECAST MANHOLE, MANHOLE COVER AND			
	FRAMEWITH SDEC INSIGNIA, BEARER CHANNEL, LOCKING PIN, CABLE			
	BRACKET AND B-PLATE	_, _,		
1-1	LOCATE AND PREPARE EXISTING MANHOLE	EACH	RM	42.00
1-2	HANDHOLE WITH CONCRETE MIX ON SITE TYPE H/H 1 (INCLUSIVE OF COVER)	EACH	RM	1,650.00
1-3	PRECAST CONCRETE MANHOLE JRC7 [900 x 700 x 600 mm] C/W 7E RECTANGULAR IRON COVER AND FRAME WITH SDEC INSIGNIA	EACH	RM	2,646.67
1-4	PRECAST CONCRETE MANHOLE JC9 C/W 7E RECTANGULAR IRON COVER AND FRAME WITH SDEC INSIGNIA	EACH	RM	3,478.33
1-5	PRECAST CONCRETE MANHOLE JC9C C/W 7E RECTANGULAR IRON COVER AND FRAME WITH SDEC INSIGNIA	EACH	RM	3,611.33
1-6	PRECAST CONCRETE MANHOLE JB30(M) C/W 3E IRON COVER AND FRAME WITH SDEC INSIGNIA	EACH	RM	2,800.00

1-7	MANHOLE WITH CONCRETE MIX ON SITE TYPE JC 9 (INCLUSIVE OF COVER)	EACH	RM	2,030.00
1-8	MANHOLE WITH CONCRETE MIX ON SITE TYPE JC 9C (INCLUSIVE OF COVER)	EACH	RM	2,350.00
1-9	MANHOLE WITH CONCRETE MIX ON SITE TYPE R 1B(MOB) (INCLUSIVE OF COVER)	EACH	RM	4,800.00

1-10	MANHOLE COVER/FRAME 610MM X 915MM ON EXISTING JOINT BOX (INCLUSIVE OF HANDHOLE COVER Type 7E)	EACH	RM	850.00
1-11	CABLE BEARER NO. 1 ON EXISTING MANHOLE	EACH	RM	16.00
1-12	CABLE BRACKET NO. 8 ON EXISTING MANHOLE	EACH	RM	13.00
1-13	MANHOLE LADDER GALVANISED ON EXISTING MANHOLE	EACH	RM	97.00
1-14	RAISING/LOWERING MANHOLE LID 915MM X 610MM GRASS BY 300MM	EACH	RM	225.00
	RAISING/LOWERING MANHOLE LID 915MM X 610MM GRASS ADDITIONAL		514	FC 00
1-15	150MM	EACH	RM RM	76.00
1-16	SUMPHOLE GRATING TO EXISTING JOINT BOX	EACH		19.00
1-17	LOCKING PIN ON EXISTING JOINT BOX	EACH	RM	0.70
1-18	MANHOLE PRE-FAB JRC7	EACH	RM	1,200.00
_	LAYING OF DUCTS - SUPPLY, INSTALLATION, MARKING OUT, ROAD			
D	WARNING SIGNS, PROTECTION OF BACKFILLING MATERIALS, PILOT			
	HOLES, EXCAVATION, LAYING OF CONDUITS AND BACKFILLING.			
1-1	1-WAY PVC DUCT WITHOUT CONCRETE IN GRASS 1220MM	MTR	RM	30.00
1-2	2-WAY PVC DUCT WITHOUT CONCRETE IN GRASS 1220MM	MTR	RM	45.00
1-3	3-WAY PVC DUCT WITHOUT CONCRETE IN GRASS 1220MM	MTR	RM	55.00
1-4	4-WAY PVC DUCT WITHOUT CONCRETE IN GRASS 1530MM	MTR	RM	67.60
1-5	1-WAY PVC DUCT CONCRETE IN GRASS 1220MM	MTR	RM	42.0
1-6	2-WAY PVC DUCT CONCRETE IN GRASS 1220MM	MTR	RM	52.0
1-7	3-WAY PVC DUCT CONCRETE IN GRASS 1220MM	MTR	RM	62.0
1-8	4-WAY PVC DUCT CONCRETE IN GRASS 1530MM	MTR	RM	70.60
1-9	1-WAY PVC DUCT WITHOUT CONCRETE BACKFILLING SAND IN GRASS 1220MM	MTR	RM	36.00
1-10	2-WAY PVC DUCT WITHOUT CONCRETE BACKFILLING SAND IN GRASS 1220MM	MTR	RM	51.00
1-11	3-WAY PVC DUCT WITHOUT CONCRETE BACKFILLING SAND IN GRASS 1220MM	MTR	RM	60.7
1-12	4-WAY PVC DUCT WITHOUT CONCRETE BACKFILLING SAND IN GRASS 1530MM	MTR	RM	69.60
1-13	1-WAY PVC DUCT CONCRETE BACKFILLING SAND IN GRASS 1220MM	MTR	RM	44.00
1-14	2-WAY PVC DUCT CONCRETE BACKFILLING SAND IN GRASS 1220MM	MTR	RM	59.00
1-15	4-WAY PVC DUCT CONCRETE BACKFILLING SAND IN GRASS 1530MM	MTR	RM	84.0
1-16	1-WAY PVC DUCT WITHOUT CONCRETE BACKFILLING SAND IN CARRIAGE-WAY 1220MM	MTR	RM	49.0
1-17	2-WAY PVC DUCT WITHOUT CONCRETE BACKFILLING SAND IN CARRIAGE-WAY 1220MM	MTR	RM	64.0
1-18	3-WAY PVC DUCT WITHOUT CONCRETE BACKFILLING SAND IN CARRIAGE-WAY 1220MM	MTR	RM	74.0
1-19	4-WAY PVC DUCT WITHOUT CONCRETE BACKFILLING SAND IN CARRIAGE-WAY 1530MM	MTR	RM	89.00
1-20	1-WAY PVC DUCT CONCRETE BACKFILLING SAND IN CARRIAGE-WAY 1220MM	MTR	RM	55.00
1-21	2-WAY PVC DUCT CONCRETE BACKFILLING SAND IN CARRIAGE-WAY 1220MM	MTR	RM	70.0
1-22	3-WAY PVC DUCT CONCRETE BACKFILLING SAND IN CARRIAGE-WAY 1220MM	MTR	RM	80.0
1-23	4-WAY PVC DUCT CONCRETE BACKFILLING SAND IN CARRIAGE-WAY 1530MM	MTR	RM	95.0
1-24	1-WAY PVC DUCT IN-SERVICE TRENCH	MTR	RM	18.60
1-25	2-WAY PVC DUCT IN-SERVICE TRENCH	MTR	RM	29.0
1-26	3-WAY PVC DUCT IN-SERVICE TRENCH	MTR	RM	41.7
1-27	4-WAY PVC DUCT IN-SERVICE TRENCH	MTR	RM	52.0
1-28	1-WAY GI DUCT BACKFILLING SAND IN GRASS 1220MM	MTR	RM	125.0
1-29	2-WAY GI DUCT BACKFILLING SAND IN GRASS 1220MM	MTR	RM	210.0
1-30	4-WAY GI DUCT BACKFILLING SAND IN GRASS 1530MM	MTR	RM	353.3
1-31	1-WAY GI DUCT IN GRASS 1220MM	MTR	RM	115.0
1-32	2-WAY GI DUCT IN GRASS 1220MM	MTR	RM	205.0

1-33	3-WAY GI DUCT IN GRASS 1220MM	MTR	RM	305.00
1-34	4-WAY GI DUCT IN GRASS 1530MM	MTR	RM	405.00
1-35	1-WAY GI DUCT IN CARRIAGE-WAY 1220MM	MTR	RM	165.00
1-36	2-WAY GI DUCT IN CARRIAGE-WAY 1220MM	MTR	RM	250.00
1-37	3-WAY GI DUCT IN CARRIAGE-WAY 1220MM	MTR	RM	370.00
1-38	4-WAY GI DUCT IN CARRIAGE-WAY 1530MM	MTR	RM	495.00
1-39	1-WAY GI DUCT 50MM IN CARRIAGE-WAY 1220MM	MTR	RM	85.00
1-40	2-WAY GI DUCT 50MM IN CARRIAGE-WAY 1220MM	MTR	RM	145.00
1-41	4-WAY GI DUCT 50MM IN CARRIAGE-WAY 1220MM	MTR	RM	270.00
1-42	1-WAY GI DUCT IN DRAINAGE	MTR	RM	58.03
1-43	2-WAY GI DUCT IN DRAINAGE	MTR	RM	125.11
1-44	3-WAY GI DUCT IN DRAINAGE	MTR	RM	146.77
1-45	4-WAY GI DUCT IN DRAINAGE	MTR	RM	190.29
1-46	1-WAY HDPE 110MM DIA. DUCT IN DRAINAGE	MTR	RM	55.00
1-47	2-WAY HDPE 110MM DIA. DUCT IN DRAINAGE	MTR	RM	87.10

1-48	4-WAY HDPE 110MM DIA. DUCT IN DRAINAGE	MTR	RM	145.00
1-49	1-WAY HDPE 50MM DIA. DUCT IN DRAINAGE	MTR	RM	27.10
1-50	2-WAY HDPE 50MM DIA. DUCT IN DRAINAGE	MTR	RM	37.10
1-51	4-WAY HDPE 50MM DIA. DUCT IN DRAINAGE	MTR	RM	55.30
1-52	1-WAY GI DUCT 100MM DIA. DRAIN CROSSING	MTR	RM	125.00
1-53	2-WAY GI DUCT 100MM DIA. DRAIN CROSSING	MTR	RM	186.80
1-54	4-WAY GI DUCT 100MM DIA. DRAIN CROSSING	MTR	RM	229.60
1-55	1-WAY GI DUCT 50MM DIA. DRAIN CROSSING	MTR	RM	95.00
1-56	2-WAY GI DUCT 50MM DIA. DRAIN CROSSING	MTR	RM	146.80
1-57	4-WAY GI DUCT 50MM DIA. DRAIN CROSSING	MTR	RM	198.83
1-58	1W HDPE DUCT 110MM DIA. ORANGE STRIP IN GRASS 1220MM	MTR	RM	45.40
1-59	2W HDPE DUCT 110MM DIA. ORANGE STRIP IN GRASS 1220MM	MTR	RM	71.30
1-60	4W HDPE DUCT 110MM DIA. ORANGE STRIP IN GRASS 1220MM	MTR	RM	123.10
1-61	1W HDPE DUCT 110MM DIA. ORANGE STRIP IN CONCRETE/BITUMEN 1220MM	MTR	RM	55.00
1-62	2W HDPE DUCT 110MM DIA. ORANGE STRIP IN CONCRETE/BITUMEN 1220MM	MTR	RM	95.00
1-63	4W HDPE DUCT 110MM DIA. ORANGE STRIP IN CONCRETE/BITUMEN 1220MM	MTR	RM	145.00
1-64	1W HDPE DUCT 110MM DIA. ORANGE STRIP IN ROCKY TERRAIN 1220MM	MTR	RM	65.00
1-65	2W HDPE DUCT 110MM DIA. ORANGE STRIP IN ROCKY TERRAIN 1220MM	MTR	RM	95.00
1-66	4W HDPE DUCT 110MM DIA. ORANGE STRIP IN ROCKY TERRAIN 1220MM	MTR	RM	145.00
1-67	1W HDPE DUCT 50MM DIA. ORANGE STRIP IN GRASS 1220MM	MTR	RM	26.10
1-68	2W HDPE DUCT 50MM DIA. ORANGE STRIP IN GRASS 1220MM	MTR	RM	28.60
1-69	4W HDPE DUCT 50MM DIA. ORANGE STRIP IN GRASS 1220MM	MTR	RM	42.40
1-70	1W HDPE DUCT 50MM DIA. ORANGE STRIP IN CONCRETE/BITUMEN 1220MM	MTR	RM	35.00
1-71	2W HDPE DUCT 50MM DIA. ORANGE STRIP IN CONCRETE/BITUMEN 1220MM	MTR	RM	55.00
1-72	4W HDPE DUCT 50MM DIA. ORANGE STRIP IN CONCRETE/BITUMEN 1220MM	MTR	RM	66.60
1-73	1W HDPE DUCT 50MM DIA. ORANGE STRIP IN ROCKY TERRAIN	MTR	RM	45.00
1-74	2W HDPE DUCT 50MM DIA. ORANGE STRIP IN ROCKY TERRAIN	MTR	RM	60.00
1-75	4W HDPE DUCT 50MM DIA. ORANGE STRIP IN ROCKY TERRAIN	MTR	RM	85.00
1-76	1W HDPE DUCT 100MM DIA. ORANGE STRIP COMPLETE WITH ACCESSORIES FOR BRIDGE CLAMP	MTR	RM	76.50
1-77	2W HDPE DUCT 100MM DIA. ORANGE STRIP COMPLETE WITH ACCESSORIES FOR BRIDGE CLAMP	MTR	RM	108.80
1-78	4W HDPE DUCT 100MM DIA. ORANGE STRIP COMPLETE WITH ACCESSORIES FOR BRIDGE CLAMP	MTR	RM	261.80
1-79	1W HDPE DUCT 50MM DIA. ORANGE STRIP COMPLETE WITH ACCESSORIES FOR BRIDGE CLAMP	MTR	RM	40.70
1-80	2W HDPE DUCT 50MM DIA. ORANGE STRIP COMPLETE WITH ACCESSORIES FOR BRIDGE CLAMP	MTR	RM	46.10
1-81	4W HDPE DUCT 50MM DIA. ORANGE STRIP COMPLETE WITH ACCESSORIES FOR BRIDGE CLAMP	MTR	RM	56.90
1-82	SUPPLY AND INSTALL WARNING TAPE	MTR	RM	2.20
1-83	REPAIR PVC PIPE WITHOUT ENCASE	EACH	RM	228.00
1-84	REPAIR PVC PIPE WITH ENCASE	EACH	RM	256.00
1-85	REPAIR GI PIPE	EACH	RM	863.17
1-86	RAISING / LOWERING GI PIPE	EACH	RM	704.59
1-87	RAISING / LOWERING PVC PIPE	EACH	RM	584.85
1-88	LEAD IN DUCTS UP TO 4-WAY TO EXISTING JOINT BOX	EACH	RM	54.60
1-89	LEAD IN DUCTS UP TO 4-WAY TO EXISTING MANHOLE	EACH	RM	89.25
1-90	LEAD IN DUCTS ABOVE 4-WAY TO EXISTING MANHOLE	EACH	RM	31.00
1-91	SEALING DUCT PIPE PVC 100MM UNOCCUPIED	EACH	RM	43.00
1-92	SEALING DUCT PIPE PVC 100MM OCCUPIED	EACH	RM	65.00
1-93	GI PIPE 50MM ON POLE (INCLUSIVE OF GI BEND & GI PIPE SUPPLY)	EACH	RM	420.00

1-94	GI PIPE 100MM ON POLE (INCLUSIVE OF GI BEND & GI PIPE SUPPLY)	EACH	RM	700.00
1-95	GI PIPE 50MM ON WALL (INCLUSIVE OF GI BEND AND GI PIPE SUPPLY)	EACH	RM	420.00
1-96	GI PIPE 100MM ON WALL (INCLUSIVE OF GI BEND & GI PIPE SUPPLY)	EACH	RM	720.00
1-97	BENDING GI PIPE 100MM	EACH	RM	101.70
1-98	CONFIRM DUCT FORMATION / UTILISATION	EACH	RM	9.00
1-99	S & I GI BEND OF 60 o ON POLE / WALL	EACH	RM	116.23
1-100	INSTALL GI BEND OF 60 o ON POLE / WALL	EACH	RM	31.70

1-101	SUPPLY AND INSTALL CABLE MARKER / TOMBSTONE FOR UNDERGROUND CABLE ROUTE (EVERY 30 METER SPAN)	EACH	RM	55.00
1-102	LAYING OF HDPE 100mm DUCT (1-WAY) BY HORIZONTAL DIRECT DRILLING METHOD – INCLUSIVE OF MOBILIZATION AND ADDITIONAL MACHINERIES REQUIRED FOR THE WORKS, AND SUPPLY AND INSTALL OF 1 x 3 WAY 32MM SUB-DUCT AND DRAW ROPE AND CAPS	MTR	RM	155.00
1-103	LAYING OF HDPE 100mm DUCT (2-WAY) BY HORIZONTAL DIRECT DRILLING METHOD – INCLUSIVE OF MOBILIZATION AND ADDITIONAL MACHINERIES REQUIRED FOR THE WORKS, AND SUPPLY AND INSTALL OF 2 x 3 WAY 32MM SUB-DUCT AND DRAW ROPE AND CAPS	MTR	RM	179.00
1-104	LAYING OF HDPE 100mm DUCT (4-WAY) BY HORIZONTAL DIRECT DRILLING METHOD – INCLUSIVE OF MOBILIZATION AND ADDITIONAL MACHINERIES REQUIRED FOR THE WORKS, AND SUPPLY AND INSTALL OF 4 x 3 WAY 32MM SUB-DUCT AND DRAW ROPE AND CAPS	MTR	RM	370.00
	PULLING-IN CABLE AND SUBDUCT			
E	PULLING-IN SUBDUCT - SUPPLY AND INSTALLATION			
1-1	3-WAY CORRUGATED SUBDUCT 32MM DIAMETER	MTR	RM	10.00
1-2	END CAP FOR PVC SUBDUCT	EACH	RM	2.80
1-3	PVC PLATE B FOR CORRUGATED SUBDUCT IN JOINT BOX	EACH	RM	23.00
1-4	REPLACEMENT OF FAULTY DRAW-ROPE IN DUCT / SUB-DUCT	MTR	RM	1.90
1-5	1-WAY CORRUGATED SUBDUCT 32MM DIAMETER ON TRAY / WALL / BUILDING	MTR	RM	3.40
1-6	ROD EXISTING STANDARD DUCT	MTR	RM	1.50
1-7	PULLING IN DRAW ROPE IN OCCUPIED DUCT/SUBDUCT	MTR	RM	1.50
	POLE			
F	POLE - SUPPLY AND INSTALLATION			
1-1	CONCRETE POLE (7.5M) IN GRASS	EACH	RM	570.00
1-2	CONCRETE POLE (7.5M) IN CONCRETE/BITUMEN/HARD ROCK	EACH	RM	600.00
1-3	STAY (16 MM) AND ACCESSORIES IN GRASS	EACH	RM	270.59
1-4	STAY (16 MM) AND ACCESSORIES IN CONCRETE/BITUMEN/HARD ROCK	EACH	RM	302.47
1-5	STRUT (7.6M) & ACCESORIES IN GRASS	EACH	RM	395.00
1-6	STRUT (7.6M) & ACCESSORIES IN CONCRETE/BITUMEN/HARD ROCK	EACH	RM	390.00
1-7	POLE EXTENDER & ACCESSORIES CROSS BAR WITH JOINT ARRANGEMENT OR RE-ARRANGEMENT WITH	EACH	RM	127.70
1-8	ACCESSORIES	EACH	RM	145.00
1-9	STEEL POLE (7.5M) IN GRASS	EACH	RM	334.4
1-10	STEEL POLE (7.5M) IN CONCRETE/BITUMEN/HARD ROCK	EACH	RM	376.4
1-11	CONCRETE POLE (7.5M) IN GRASS	EACH	RM	104.0
1-12	CONCRETE POLE (7.5M) IN CONCRETE/BITUMEN/HARD ROCK	EACH	RM	114.0
1-13	CONCRETE/STEEL POLE EXTENDER	EACH	RM	33.0
1-14	STAY IN GRASS	EACH	RM	19.0
1-15	STAY IN CONCRETE / BITUMEN/HARD ROCK	EACH	RM	38.0
1-16	STRUT IN GRASS	EACH	RM	28.0
1-17	STRUT IN CONCRETE / BITUMEN/HARD ROCK	EACH	RM	47.0
1-18	GI EXTENDER OF 100MM DIAMETER	EACH	RM	200.0
1-19	CONCRETE POLE WITH KICKING BLOCK	EACH	RM	153.7
1-20	CONCRETE ENCASE FOR CONCRETE/IRON POLE CROSS BAR WITH JOINT ARRANGEMENT OR RE-ARRANGEMENT WITH	EACH	RM	50.0
1-21	ACCESSORIES	EACH	RM	32.8
1-22	POLE LABELLING	EACH	RM	25.0
	STREET CABINET			
	CONSTRUCTION OF SDEC NEW PASSIVE AND ACTIVE OUTDOOR FIBER			
G	DISTRIBUTION HUB/CABINET (WEATHER PROOF CABINET) CONCRETE			
	PLINTH - INSTALLATION ONLY			

	144 PORT FDH CONCRETE PLINTH - C/W MANHOLE			
	MOBILISATION AND INSTALL OF FIBER DISTRIBUTION HUB 144 PORT			
	AND CONSTRUCT CONCRETE PLINTH OVERALL SIZE 1718MM (L) X			
	1340MM (W) X 100MM THICK (REFER TO DESIGN) GRADE 25 CONCRETE			
1-1	REINFORCED WITH A LAYER OF BMC A6 ON 100MM THICK WELL	UNIT	RM	3,748.70
	COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED			
	SUBGRADE COMPLETE WITH 2-WAY 100MM DIA. 1284MM LENGTH G.I			
	PIPE AND LONG BEND AND JRC7 MANHOLE 1200 MM (L) X 900MM (W) X			
	900 MM DEPTH WITH 7E COVER.			
	144 PORT FDH CONCRETE PLINTH - W/O MANHOLE			
	MOBILISATION AND INSTALL OF FIBER DISTRIBUTION HUB 144 PORT			
	AND CONSTRUCT CONCRETE PLINTH OVERALL SIZE 1718MM (L) X			
1-2	1340MM (W) X 100MM THICK (REFER TO DESIGN) GRADE 25 CONCRETE	UNIT	RM	
1-2	REINFORCED WITH A LAYER OF BMC A6 ON 100MM THICK WELL	UNII	RM	1,283.80
	COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED			
	SUBGRADE COMPLETE WITH 2-WAY 100MM DIA. 1284MM LENGTH G.I			
	PIPE AND LONG BEND.			

1-3	288 port FDH CONCRETE PLINTH - C/W MANHOLE MOBILISATION AND INSTALL OF FIBER DISTRIBUTION HUB 288 PORT AND CONSTRUCT CONCRETE PLINTH OVERALL SIZE 1750MM (L) X 1570MM (W) X 100MM THICK (REFER TO DESIGN) GRADE 25 CONCRETE REINFORCED WITH A LAYER OF BMC A6 ON 100MM THICK WELL COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED SUBGRADE COMPLETE WITH 2-WAY 100MM DIA., 1316MM LENGTH G.I PIPE AND LONG BEND AND JRC7 MANHOLE 1200 MM (L) X 900MM (W) X 900 MM DEPTH WITH 7E COVER.	UNIT	RM	3,902.73
1-4	TSM OUTDOOR CABINET CONCRETE PLINTH - C/W MANHOLE MOBILISATION AND INSTALL OF FIBER DISTRIBUTION HUB 288 PORT AND CONSTRUCT CONCRETE PLINTH OVERALL SIZE 1750MM (L) X 1570MM (W) X 100MM THICK (REFER TO DESIGN) GRADE 25 CONCRETE REINFORCED WITH A LAYER OF BMC AG ON 100MM THICK WELL COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED SUBGRADE COMPLETE WITH 2-WAY 100MM DIA., 1316MM LENGTH G.I PIPE AND LONG BEND.	UNIT	RM	1,611.10
1-5	TSM OUTDOOR CABINET CONCRETE PLINTH - C/W MANHOLE MOBILISATION AND INSTALL OF TSM OUTDOOR CABINET AND CONSTRUCT CONCRETE PLINTH OVERALL SIZE 2240MM (L) X 1430MM (W) X 100MM THICK (REFER TO DESIGN) GRADE 25 CONCRETE REINFORCED WITH A LAYER OF BMC A6 ON 100MM THICK WELL COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED SUBGRADE COMPLETE WITH 2-WAY 100MM DIA. 1545MM LENGTH G.I PIPE AND LONG BEND AND JRC7 MANHOLE 1200 MM (L) X 900MM (W) X 900 MM DEPTH WITH 7E COVER.	UNIT	RM	4,005.43
1-6	TSM OUTDOOR CABINET CONCRETE PLINTH - C/W MANHOLE MOBILISATION AND INSTALL OF TSM OUTDOOR CABINET AND CONSTRUCT CONCRETE PLINTH OVERALL SIZE 2240MM (L) X 1430MM (W) X 100MM THICK (REFER TO DESIGN) GRADE 25 CONCRETE REINFORCED WITH A LAYER OF BMC A6 ON 100MM THICK WELL COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED SUBGRADE COMPLETE WITH 2-WAY 100MM DIA. 1545MM LENGTH G.I PIPE AND LONG BEND.	UNIT	RM	2,222.20
1-7	DLC OUTDOOR CABINET CONCRETE PLINTH - C/W MANHOLE MOBILISATION AND INSTALL OF DLC OUTDOOR CABINET CONCRETE PLINTH AND CONSTRUCT CONCRETE PLINTH OVERALL SIZE 2230MM (L) X 2420MM (W) X 100MM THICK (REFER TO DESIGN) GRADE 25 CONCRETE REINFORCED WITH A LAYER OF BMC A6 ON 100MM THICK WELL COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED SUBGRADE COMPLETE WITH 2-WAY 100MM DIA. 1589MM LENGTH G.I PIPE AND LONG BEND AND JRC7 MANHOLE 1200 MM (L) X 900MM (W) X 900 MM DEPTH WITH 7E COVER.	UNIT	RM	4,262.20
1-7.1	EARTHING LIGHTNING PROTECTION SYSTEM SUPPLY AND INSTALL HEAVY DUTY 300MM X 300 MM EARTH CHAMBER C/W 2 LENGTH 16MM DIA. COPPER ROD AND ALL ASSOCIATED ACCESSORIES. (FURSE OR EQUIVALENT)	EACH	RM	187.15
	SUPPLY AND INSTALL 25MM X 3MM THICK COPPER TAPE BURIED AT MINIMUM 750MM FROM GROUND LEVEL AND CADWELD TO EARTH ROD INCLUSIVE ALL ASSOCIATED ACCESSORIES AND EXCAVATION.	EACH	RM	350.00
1-8	DLC OUTDOOR CABINET CONCRETE PLINTH - W/O MANHOLE MOBILISATION AND INSTALL OF DLC OUTDOOR CABINET CONCRETE PLINTH AND CONSTRUCT CONCRETE PLINTH OVERALL SIZE 2230MM (L) X 2420MM (W) X 100MM THICK (REFER TO DESIGN) GRADE 25 CONCRETE REINFORCED WITH A LAYER OF BMC A6 ON 100MM THICK WELL COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED SUBGRADE COMPLETE WITH 2-WAY 100MM DIA. 1589MM LENGTH G.I PIPE AND LONG BEND.	UNIT	RM	1,697.50

1-8.1	EARTHING LIGHTNING PROTECTION SYSTEM			
	SUPPLY AND INSTALL HEAVY DUTY 300MM X 300 MM EARTH CHAMBER			
	C/W 2 LENGTH 16MM DIA. COPPER ROD AND ALL ASSOCIATED	EACH	RM	187.1
	ACCESSORIES. (FURSE OR EQUIVALENT)			
	SUPPLY AND INSTALL 25MM X 3MM THICK COPPER TAPE BURIED AT			
	MINIMUM 750MM FROM GROUND LEVEL AND CADWELD TO EARTH ROD	EACH	RM	350.0
	INCLUSIVE ALL ASSOCIATED ACCESSORIES AND EXCAVATION.			
	PEDESTRAL CONCRETE PLINTH			
	SUPPLY AND INSTALL OF PEDESTAL CABINET CONCRETE PLINTH AND			
	CONSTRUCT CONCRETE PLINTH OVERALL SIZE XXXMM (L) X XXXXMM			
1-9	(W) X XXXXMM THICK (REFER TO DESIGN) GRADE 25 CONCRETE	EACH	RM	495.0
	REINFORCED WITH A LAYER OF BMC A6 ON 100MM THICK WELL			
	COMPACTED CRUSHER RUN, WELL COMPACTED AND CONSOLIDATED			
	SUBGRADE COMPLETE WITH 1-WAY 100MM DIA. 1589MM LENGTH G.I			
Н	PIPE AND LONG BEND. DEMOLISH CABINET PLINTH			
1-1	DEMOLISH CABINET PLINTH DEMOLISH CABINET PLINTH	EACH	RM	319.
1=1 	RECORD AND PROVIDE DSR OF EXISTING PLANT	EACH	KIVI	313.
1-1	RECORD AND PROVIDE DSR OF EXISTING PLANT	CABLE	RM	2.
<u> </u>	RECORD AND PROVIDE DOR OF EXISTING PLANT	CABLE	Kivi	۷.
	ENGINEERING SERVICES - INSTALLATION (FOC & ACCESSORIE	S by SDEC)		
ITEM NO.	DESCRIPTIONS	UNIT	DDOD(SED SOR
TILM NO.	DESCRIPTIONS	OIIII	PROP	JJLD JOR
J	MOBILISATION			
	TRANSPORTATION OF CABLE WITHOUT POLE / WITHOUT CIVIL WORK			
1-1	MATERIAL FROM SDEC WAREHOUSE OR RESPECTIVE OPERATIONAL			
	BASE			
1-1.1	1ST 100KM FROM SDEC WAREHOUSE OR RESPECTIVE OPERATIONAL	EACH	RM	300.0
	BASE (RETURN TRIP)			
1-1.2	ADDITIONAL KM	КМ	RM	1.5
1-2	TRANSPORTATION OF CABLE WITH POLE / CIVIL WORK MATERIAL			
	FROM SDEC WAREHOUSE OR RESPECTIVE OPERATIONAL BASE			
1-2.1	1ST 100KM FROM SDEC WAREHOUSE OR RESPECTIVE OPERATIONAL	EACH	RM	500.0
	BASE (RETURN TRIP)			
1-2.2	BASE (RETURN TRIP) ADDITIONAL KM	EACH KM	RM RM	
	BASE (RETURN TRIP) ADDITIONAL KM FTTX INSTALLATION			
1-2.2	BASE (RETURN TRIP) ADDITIONAL KM FTTX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO			
1-2.2	BASE (RETURN TRIP) ADDITIONAL KM FTTX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF			2.0
1-2.2 K	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER	КМ	RM	2.0
1-2.2 K	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING	КМ	RM	2.0
1-2.2 K	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION &	КМ	RM	140.0
1-2.2 K 1-1	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING	EACH PER CORE	RM RM	2.0 140.0 25.0
1-2.2 K	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF	KM EACH	RM	2.0 140.0 25.0
1-2.2 K 1-1	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT	EACH PER CORE	RM RM	2.0 140.0 25.0 41.8
1-2.2 K 1-1 1-2 1-3	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR)	EACH PER CORE EACH	RM RM RM	2.0 140.0 25.0 41.8
1-2.2 K 1-1 1-2 1-3 1-4	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING	EACH PER CORE EACH PER SPAN	RM RM RM RM	2.0 140.0 25.0 41.3
1-2.2 K 1-1 1-2 1-3	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN	EACH PER CORE EACH	RM RM RM	2.0 140.0 25.0 41.3
1-2.2 K 1-1 1-2 1-3 1-4	BASE (RETURN TRIP) ADDITIONAL KM FTTX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL	EACH PER CORE EACH PER SPAN MTR	RM RM RM RM RM	2.0 140.0 25.0 41.8 30.0
1-2.2 K 1-1 1-2 1-3 1-4 1-5	BASE (RETURN TRIP) ADDITIONAL KM FTTX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE	EACH PER CORE EACH PER SPAN MTR EACH	RM RM RM RM RM RM RM	2.0 140.0 25.0 41.8 30.0
1-2.2 K 1-1 1-2 1-3 1-4	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE RECOVER OF DROP WIRE	EACH PER CORE EACH PER SPAN MTR EACH PER SPAN	RM RM RM RM RM	2.0 140.0 25.0 41.3 30.0 3.0
1-2.2 K 1-1 1-2 1-3 1-4 1-5 1-6 1-7	BASE (RETURN TRIP) ADDITIONAL KM FTTX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE	EACH PER CORE EACH PER SPAN MTR EACH	RM RM RM RM RM RM RM RM	2.0 140.0 25.0 41.3 30.0 3.0 19.0 2.1
1-2.2 K 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE RECOVER OF DROP WIRE RETENSIONING OF EXISTING DROP WIRE	EACH PER CORE EACH PER SPAN MTR EACH PER SPAN PER SPAN	RM	2.0 140.0 25.0 41.1 30.0 3.0 19.1 2.
1-2.2 K 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE RECOVER OF DROP WIRE RETENSIONING OF EXISTING DROP WIRE POLE HEAD RING AT POLE	EACH PER CORE EACH PER SPAN MTR EACH PER SPAN PER SPAN EACH	RM	2.0 140.0 25.0 41.1 30.0 3.0 19.0 2.0 9.0
1-2.2 K 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE RECOVER OF DROP WIRE RETENSIONING OF EXISTING DROP WIRE POLE HEAD RING AT POLE HANDLING OF SDB WALL-MOUNTED FIBRE DP C/W SPLITTER (1:2/ 1:4 / 1:8 / 1:16 / 1:32)	EACH PER CORE EACH PER SPAN MTR EACH PER SPAN PER SPAN	RM	2.0 140.0 25.0 41.1 30.0 3.0 19.0 2.0 9.0
1-2.2 K 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10 1-10.1	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE RECOVER OF DROP WIRE RETENSIONING OF EXISTING DROP WIRE POLE HEAD RING AT POLE HANDLING OF SDB WALL-MOUNTED FIBRE DP C/W SPLITTER (1:2/ 1:4 / 1:8 / 1:16 / 1:32) INCLUDING HANDLING, TAGGING OF SPLITTER/SDB NUMBER	EACH PER CORE EACH PER SPAN MTR EACH PER SPAN PER SPAN EACH EACH	RM	2.0 140.0 25.0 41.3 30.0 3.0 19.0 2.1 9.0 5.0
1-2.2 K 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE RECOVER OF DROP WIRE RETENSIONING OF EXISTING DROP WIRE POLE HEAD RING AT POLE HANDLING OF SDB WALL-MOUNTED FIBRE DP C/W SPLITTER (1:2/ 1:4 / 1:8 / 1:16 / 1:32) INCLUDING HANDLING, TAGGING OF SPLITTER/SDB NUMBER REPLACE OF OVERHEAD SPLITTER (1:2/ 1:4 / 1:8 / 1:16 / 1:32) IN EXISTING	EACH PER CORE EACH PER SPAN MTR EACH PER SPAN PER SPAN EACH	RM	2.0 140.0 25.0 41.8 30.0 3.0 19.0 2.9 5.0
1-2.2 K 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10 1-10.1	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE RECOVER OF DROP WIRE RETENSIONING OF EXISTING DROP WIRE POLE HEAD RING AT POLE HANDLING OF SDB WALL-MOUNTED FIBRE DP C/W SPLITTER (1:2/ 1:4 / 1:8 / 1:16 / 1:32) INCLUDING HANDLING, TAGGING OF SPLITTER/SDB NUMBER REPLACE OF OVERHEAD SPLITTER (1:2/ 1:4 / 1:8 / 1:16 / 1:32) IN EXISTING FIBER DP	EACH PER CORE EACH PER SPAN MTR EACH PER SPAN PER SPAN EACH EACH EACH	RM R	2.0 140.0 25.0 41.8 30.0 3.0 19.0 2.9 5.6 145.2
1-2.2 K 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10 1-10.1	BASE (RETURN TRIP) ADDITIONAL KM FITX INSTALLATION FIBRE DROP WIRE OVERHEAD INSTALLATION ON POLE FROM SDB TO SPLITTER AND INCLUDE OUTDOOR FIBER JOINT SPLICING (IF @ SDB, IF @ SPLITTER BOX) INCLUDE INSTALLATION AND HANDLING OF SPLITTER BOX AND LABELLING OUTDOOR FIBER JOINT SPLICING (6F@SDB) - INCLUDE INSTALLATION & HANDLING OF SDB ON POLE & LABELLING CABLE PREPARATION AND ARRANGEMENT AT FDC/ODF DROP 2-CORE ON POLE INCLUDING POLE TERMINATION (REPLACEMENT / REPAIR) INSTALL DROP 2-CORE IN-BUILDING INCLUDING SETTING UP, FIXING WOODEN BATTEN TO WALL, FIXING DROP CABLE TO WOODEN BATTEN BY USING STEEL NAIL SPLICING DROP CABLE RECOVER OF DROP WIRE RETENSIONING OF EXISTING DROP WIRE POLE HEAD RING AT POLE HANDLING OF SDB WALL-MOUNTED FIBRE DP C/W SPLITTER (1:2/ 1:4 / 1:8 / 1:16 / 1:32) INCLUDING HANDLING, TAGGING OF SPLITTER/SDB NUMBER REPLACE OF OVERHEAD SPLITTER (1:2/ 1:4 / 1:8 / 1:16 / 1:32) IN EXISTING	EACH PER CORE EACH PER SPAN MTR EACH PER SPAN PER SPAN EACH EACH	RM	30.0 2.5 41.8 30.0 2.5 9.4 5.6 145.2 64.0

1-12	ODF (600 TERM) IN CENTRAL OFFICE	EACH	RM	130.00
1-13	ODF (900 TERM) IN CENTRAL OFFICE	EACH	RM	170.00
1-14	PEDESTAL INCLUSIVE OF PLINTH	EACH	RM	64.00

L	CABLE DRUM TEST			
1-1	TO CONDUCT CABLE DRUM TEST	CORE	RM	8.30
M	CABLE - INSTALLATION ONLY	CORE	RIVI	6.30
		MTD	DM	270
1-1	ON SDEC CONCRETE POLE	MTR	RM	2.70
1-2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)	MTR	RM	2.80
1-3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	MTR	RM	3.80
1-4	BETWEEN SDEC CONCRETE POLE AND SESCO POLE	MTR	RM	2.80
	(LT/HT/CONCRETE/STELL POLE)			
1-5	BETWEEN SDEC CONCRETE POLE & SESCO TOWER (INCLUSIVE OF	MTR	RM	3.80
1-5	MONOPOLES)	MIK	KW	3.00
1.6	BETWEEN SESCO POLE (LT/HT/CONCRETE/STELL POLE) AND SESCO	MTD	DM	7.00
1-6	TOWER (INCLUSIVE OF MONOPOLE)	MTR	RM	3.80
1-7	PULLING CABLE IN DUCT (SUBDUCT)	MTR	RM	1.80
1-8	LAYING OF DIRECT BURIED CABLE	MTR	RM	16.30
1-9	PULLING OF HIGH RISER	MTR	RM	25.00
N	FIXATION - SUPPLY AND INSTALLATION			
1-1	SUSPENSION/SUPPORT			
1-1	SUSPENSION/SUPPORT			
1-1.1	ON SDEC CONCRETE POLE (Without Supply of Buckle and Steel Tape)	EACH	RM	7.10
1-1.2	ON SDEC CONCRETE POLE (With Supply of Buckle and Steel Tape)	EACH	RM	35.10
1-1.3	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE) (Without Supply of	EACH	RM	8.10
	Buckle & Steel Tape)			
117	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE) (With Supply of Buckle	FACIL	D14	7610
1-1.4	& Steel Tape)	EACH	RM	36.10
	ON SESCO TOWER (INCLUSIVE OF MONOPOLES) (Without Supply of			
1-1.5	Buckle & Steel Tape)	EACH	RM	9.50
	ON SESCO TOWER (INCLUSIVE OF MONOPOLE) (With Supply of Buckle &			
1-1.6	Steel Tape)	EACH	RM	37.50
	1 1			
1-2	DOUBLE TERMINATION			
1-2.1	ON SDEC CONCRETE POLE (Without Supply of Buckle and Steel Tape)	EACH	RM	7.60
1-2.2	ON SDEC CONCRETE POLE (With Supply of Buckle and Steel Tape)	EACH	RM	35.60
1-2.3	ON SESCO TOWER (LT/HT/CONCRETE/STEEL POLE) (Without Supply of	EACH	RM	8.50
1-2,3	Buckle & Steel Tape)	LACII	KIM	0.50
	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE) (With Supply of Buckle		D) 4	76.50
1-2.4	& Steel Tape)	EACH	RM	36.50
	ON SESCO TOWER (INCLUSIVE OF MONOPOLE) (Without Supply of			
1-2.5	Buckle & Steel Tape)	EACH	RM	10.00
	ON SESCO TOWER (INCLUSIVE OF MONOPOLE) (With Supply of Buckle &			
1-2.6		EACH	RM	38.00
	Steel Tape)			
1-3	SINGLE TERMINATION/PORTEL			
1-3.1	ON SDEC CONCRETE POLE (Without Supply of Buckle & Steel Tape)	EACH	RM	4.70
1-3.2	ON SDEC CONCRETE POLE (With Supply of Buckle & Steel Tape)	EACH	RM	32.70
1-3.3	ON SESCO pole (LT/HT/CONCRETE/STEEL POLE) (Without Supply of	EACH	RM	5.40
1-3.3	Buckle & Steel Tape)	EACH	KW	3.40
	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE) (With Supply of Buckle			
1-3.4	& Steel Tape)	EACH	RM	33.40
	ON SESCO TOWER (INCLUSIVE OF MONOPOLE) (Without Supply of			
1-3.5	Buckle & Steel Tape)	EACH	RM	6.10
	ON SESCO TOWER (INCLUSIVE OF MONOPOLE) (With Supply of Buckle			
1-3.6		EACH	RM	34.10
	& Steel Tape)			
0	SPLICING - SUPPLY AND INSTALLATION			
1-1	SPLICING SLEEVE	PER CORE	RM	28.00
1-2	SPLICING SLEEVE	PER CORE	RM	27.00
P	HANDLING OF TERMINATION BOX (TB) - INSTALLATION			
1-1	NEW TB	EACH	RM	44.00
1-2	EXISTING TB	EACH	RM	36.00
	HANDLING OF JOINT CLOSURE - INSTALLATION			
Q				
Q 1-1	NEW JOINT CLOSURE	EACH	RM	38.00
Q 1-1 1-2	NEW JOINT CLOSURE EXISTING JOINT CLOSURE	EACH EACH	RM RM	38.00 47.00

R	TESTING & COMMISSIONING - ALL LABOUR, MATERIAL (EXCLUDED			·
	MATERIAL IN THE MATERIAL LIST) AND MACHINARIES FOR CABLE END			
	TO END COMMISSIONING, ATTENUATION MEASUREMENT AT 1310NM			
	AND 1550NM (OTDR AND POWER METER AND LIGHT SOURCE			
	BIDIRECTIONAL), PHYSICAL INSPECTION, FINAL MEASUREMENT			
	(PULLING / STRINGING / CIVIL) AND SUBMISSION OF AS-BUILD			
	DOCUMENT (ABD), DATA ENTRY INTO DATABASE SYSTEM), INCLUDING			
	GPS COORDINATE FOR JOINT LOCATION, CABINET, MANHOLE AND			
	CONCRETE POLE.			
1-1	OTDR TEST – with OTDR Trace softcopy file of test results bidirectional	PER CORE	RM	23.80
	2-WAY POWER METER AND LIGHT SOURCE TEST – with test results	DED 0005		70.50
1-2	bidirectional	PER CORE	RM	12.50
1-3	FINAL DOCUMENTATIONS – INCLUDING BUT NOT LIMITED TO AS-BUILT			
	DRAWINGS, STRAIGHT LINE DIAGRAMS, FINAL MEASUREMENTS BILL OF			
	QUANTITY, MATERIAL SETTLEMENT, DATA ENTRY INTO DATABASE	LUMP SUM	RM	800.00
	SYSTEM, INCLUDING GPS COORDINATE FOR JOINT LOCATION, CABINET,			
	MANHOLE AND CONCRETE POLE.			

S	OPTICAL FIBER CABLE ROUTE MAINTENANCE			
1-1	RETENSIONING OF OFC			
1-1,1	ON SDEC CONCRETE POLE	MTR	RM	1.80
1-1.2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)	MTR	RM	2.80
1-1.3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	MTR	RM	3.80 103.17
1-2	POLE REINFORCEMENT	EACH	RM	
1-2.1	WITH CONCRETE BASE	EACH	RM	130.00
1-2.2	WITHOUT CONCRETE BASE	EACH	RM	50.00
1-3	CABLE SHEATH REPAIR USING HEAT SHRINK REPAIR SLEEVE	EACH	RM RM	66.00 66.00
1-3.1	CABLE SHEATH REPAIR USING HEAT SHRINK WRAP AROUND	EACH		
1-3.2	CABLE SHEATH REPAIR USING HEAT SHRINK TUBING	EACH	RM	66.00
T	OPTICAL FIBER CABLE ROUTE REPAIR			
1-1	RECOVER OF EXISITING OFC	MTD	RM	2.30
1-1.1 1-1.2	ON SDEC CONCRETE POLE	MTR MTR	RM	2.80
1-1.2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)		RM	3.40
1-1.3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	MTR	RM	3.40
	RECABLING ON NEW / EXISTING INFRASTRUCTURE	MTD	RM	6 FO
1-2.1	ON SDEC CONCRETE POLE	MTR		4.50
1-2.2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)	MTR	RM	5.60
1-2.3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	MTR	RM	4.86
1-3	SHIFTING ON SPEC CONSPETE POLE	LITE	D14	1.00
1-3.1	ON SDEC CONCRETE POLE	MTR	RM	1.60
1-3.2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)	MTR	RM	2.30
1-3.3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	MTR	RM	3.80
1-4	DIFFICULT SHIFTING		514	0.50
1-4.1	ON CTS CONCRETE POLE	MTR	RM	2.70
1-4.2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)	MTR	RM	2.80
1-4.3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	MTR	RM	3.60
1-5	RECOVER FIXATION - SUSPENSION SET			
1-5.1	ON SDEC CONCRETE POLE	EACH	RM	5.40
1-5.2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)	EACH	RM	6.30
1-5.3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	EACH	RM	9.00
1-6	RECOVER FIXATION - DOUBLE TERMINATION SET			
1-6.1	ON SDEC CONCRETE POLE	EACH	RM	9.00
1-6.2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)	EACH	RM	9.00
1-6.3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	EACH	RM	12.00
1-7	RECOVER FIXATION - SINGLE TERMINATION / PORTEL			
1-7.1	ON SDEC CONCRETE POLE	EACH	RM	7.20
1-7.2	ON SESCO POLE (LT/HT/CONCRETE/STEEL POLE)	EACH	RM	8.10
1-7.3	ON SESCO TOWER (INCLUSIVE OF MONOPOLES)	EACH	RM	10.00
1-8	RECOVERY OF OFC IN SUB-DUCT (INCLUSIVE OF INSTALLING PULLING	MTR	RM	2.70
	ROPE)			
1-9	RECOVERY OF SDEC CONCRETE/STELL POLE FROM GRASS OR ROCKY	EACH	RM	148.00
	TERRAIN			
1-10	RECOVERY OF STRUT FROM GRASS OR ROCKY TERRAIN	EACH	RM	76.00
1-11	RECOVERY OF STAY FROM GRASS OR ROCKY TERRAIN	EACH	RM	67.00
1-12	POLE EXTENDER RECOVERY	EACH	RM	40.00
1-13	CABLE RE-ARRANGEMENT AT JOINT POSITION	EACH	RM	15.00
U	FAST RESTORATION RATE (FRR)			
1-1	FAST RESTORATION RATE (FRR)	CALL/FAULT	RM	1,000.00
V	GENERAL HOUSEKEEPING			
1-1	GENERAL HOUSEKEEPING	PERSON/HOUR	RM	5.60
w	RENTISING (DURING PROJECT / R&M WORKS)			
1-1	CABLE - CLEARING OF CREEPERS	MTR	RM	1.00
1-2	POLE CLEARING	EACH	RM	1.50
1-3	STRUT CLEARING	EACH	RM	1.50
1-4	STAY CLEARING	EACH	RM	1.50
1-5	ROUTE / SPAN CLEARING	MTR	RM	0.80
1-6	ACCESS CLEARING	MTR	RM	0.80
1-7	TREE CUTTING (<50MM)	EACH	RM	1.50
1-8	TREE CUTTING (>50MM, <200MM)	EACH	RM	2.50
1-9	TREE CUTTING (>200MM)	EACH	RM	10.00
			-	

1-10	CABIN CLEARING	EACH	RM	50.00
ITEM NO.	DESCRIPTIONS	UNIT	SOR	
Α	CONSULTANCY FEE & CROPS COMPENSATION			
1-1	PRELIMINARY WORKS	LUMP SUM	RM	500.00
1-2	PROFESSIONAL ENGINEER ENDORSEMENT FOR THE DRAWING	LUMP SUM	RM	1,000.00
1-3	SURVEY			
1-3.1	ADMINISTRATION	LUMP SUM		
1-3.2	SURVEY – INCLUSIVE INITIAL SURVEY, DETAIL SURVEY, AND FINAL (CONFIRMATION SURVEY)			
	LOCALITY PLANS FROM LAND & SURVEY DEPT – ASSUMPTION 1			
1-3.3	COPY/2KM			
1-3.4	REPRODUCE MASTER PLAN BASED ON L&S DEPT LOCALITY PLANS		RM	750.00
1-3.4				
1-3.5	TO PRODUCE FIFTEEN (15) COPIES OF COMPLETED AT DRAWING PLANS FOR SUBMISSION			
	PRODUCE DRAWINGS IN KMZ, AUTOCAD AND PDF FILES, TECHNICAL			
1-3.6	PROPOSAL (TP), RELEVANT PICTURES AND OTHERS (AS PER			
	AUTHORITIES' REQUIREMENTS)			
1-4	ADDITIONAL METER SURVEYED (ABOVE 3000M)	MTR	RM	0.50
1-5	ADDITIONAL COPY OF LAND & SURVEY LOCALITY PLANS	LUMP SUM	RM	25.00
1-6	DESIGN STAGE	LUMP SUM	RM	500.00
1-7	PROVIDE CERTIFIED SESCO AUTHORIZED PERSONNEL (CAC) FOR	LUMP SUM	RM	500.00
	WORKS ON SEB INFRASTRUCTURE, WHERE APPLICABLE			
1-8	CONSTRUCTION STAGE	LUMP SUM	RM	500.00
1-9	WAYLEAVE APPLICATION	LUMP SUM	RM	500.00
1-10	CROPS COMPENSATION	LUMP SUM	RM	1,500.00
1-11	MOBILISATION (to each Division	1)		
1-11.1	KUCHING	LUMP SUM	RM	200.00
1-11.2	SAMARAHAN	LUMP SUM	RM	250.00
1-11.3	SERIAN	LUMP SUM	RM	300.00
1-11.4	SIMANGGANG	LUMP SUM	RM	350.00
1-11.5	BETONG	LUMP SUM	RM	400.00
1-11.6	SARIKEI	LUMP SUM	RM	450.00
1-11.7	SIBU	LUMP SUM	RM	500.00
1-11.8	MUKAH	LUMP SUM	RM	550.00
1-11.9	BINTULU	LUMP SUM	RM	600.00
1-11.10	KAPIT	LUMP SUM	RM	650.00
1-11.11	MIRI	LUMP SUM	RM	700.00
1-11.12	LIMBANG	LUMP SUM	RM	750.00
1-12	POLE PEGGING	LUMP SUM	RM	500.00
1-13	SURVEY DRAWING, CONSTRUCTION DRAWING AND AS BUILT DRAWING	LUMP SUM	RM	500.00
1-14	HANDOVER STAGE	LUMP SUM	RM	500.00

Acceptance of SOR: Accept / Reject

Name:

Company Name:

Signature & Stamp: