

APPENDIX 2: MTO FOR ELECTRICAL AND INSTRUMENT CABLE TRAY/ LADDER ON DH02

No.	Description	Unit	Quantity	Model, P/N	Manufacturer/ Origin	Delivery Time	Remarks
I	ELECTRICAL CABLE TRAY/LADDER AND ACCESSORIES						
1	CABLE LADDERS AND ACCESSORIES						
	HEAVY DUTY STAINLESS STEEL SS316L, 2MM THK, 300MM RUNG SPACING, 150MM OVERALL DEPTH, COMPLETED WITH COVERS THICKNESS 1.0 MM, COVER CLAMPS, HEX HEAD BOLTS & SPRING WASHERS, HOLD DOWN CLAMPS, LADDER SPLICE CONNECTOR (ALL MATERIAL IS SS316), EARTHING JUMPER. CABLE LADDER SHALL BE SUITABLE FOR OFFSHORE/MARINE INSTALLATION (VENDOR SHALL PROVIDE DETAIL SPECIFICATION, NECESSARY QUANTITY FOR ALL ACCESSORIES, BOLTS, NUTS, WASHERS FOR COMPLETED TRAY/LADDER INSTALLATION. ALL MATERIAL IS SS316).						
1.1	STRAIGHT LADDER (3 METRES PER SECTION / LENGTH) 300MM WIDTH	LENGTH	3				
1.2	SS316 VERTICAL HOLD DOWN ANGLE BRACKETS, LOCKING SCREWS, BOLTS AND ALL OTHER NECESSARY ACCESSORIES FOR INSTALLATION AS PER MANUFACTURE STANDARD. ALL ASSEMBLY FASTENES BOLTING SETS SHALL BE SS316.	Lot	1				Vendor to calculate the required quantity of accessories (including 20% spare) and supply sufficient accessories for the complete installation of all proposed cable ladders.
2	CABLE TRAYS AND ACCESSORIES						
	HEAVY DUTY CABLE TRAY PERFORATED , OF STAINLESS STEEL (SS316) TYPE. CABLE TRAY WITH 1.5MM THICKNESS ,50 MM DEPTH. WORKING LOAD CLASSIFICATION SHALL BE BASED ON IEC 61537 AND TESTED IN ACCORDANCE WITH ASTM E-84 OR BS476. ALL ASSEMBLY FASTENERS, BOLTING SETS SHALL BE SS316 .						
2.1	STRAIGHT TRAY (3 METRES PER SECTION / LENGTH) 100MM WIDTH	LENGTH	5				
2.2	INSIDE RISER C/W COVERS						
2.2.1	100MM WIDTH, 45 DEG, 450MM RADIUS	PC	2				
2.2.2	100MM WIDTH, 90 DEG, 450MM RADIUS	PC	3				
2.3	OUTSIDE RISER C/W COVERS						
2.3.1	100MM WIDTH, 45 DEG, 450MM RADIUS	PC	2				
2.3.2	100MM WIDTH, 90 DEG, 450MM RADIUS	PC	3				
2.4	SS316 VERTICAL HOLD DOWN ANGLE BRACKETS, LOCKING SCREWS, BOLTS AND ALL OTHER NECESSARY ACCESSORIES FOR INSTALLATION AS PER MANUFACTURE STANDARD. ALL ASSEMBLY FASTENES BOLTING SETS SHALL BE SS316.	Lot	1				Vendor to calculate the required quantity of accessories (including 20% spare) and supply sufficient accessories for the complete installation of all proposed cable ladders.
II	INSTRUMENT CABLE TRAY/LADDER AND ACCESSORIES						
1	CABLE LADDER AND ACCESSORIES						

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No.	Description	Unit	Quantity	Model, P/N	Manufacturer/ Origin	Delivery Time	Remarks
	- CABLE LADDER SHALL BE 316 SS, OUTWARD FACING, RETURN FLANGE TYPE 150MM HEIGHT X 3000MML, 2MM THICKNESS, COMPLY WITH IEC 61537. - CABLE LADDER SHALL INCLUDE SS316 SPLICE CONNECTORS; SS316 VERTICAL HOLD DOWN ANGLE BRACKETS; SS316 COVER CLAMPS FOR COVER; SS316 BOLTS, NUTS & WASHERS (SELF-LOCKING TYPE) & INSULATION SLEEVE; EARTHING JUMPERS AND ALL OTHER NECESSARY ACCESSORIES FOR INSTALLATION AS PER MANUFACTURE STANDARD.						
1.1	STRAIGHT LADDER (3 METRES PER SECTION / LENGTH)						
1.1.1	150MM WIDTH	LENGTH	18				
1.1.2	300MM WIDTH	LENGTH	10				
1.1.3	450MM WIDTH	LENGTH	2				
1.2	CABLE LADDER COVER						
1.2.1	150MM WIDTH	LENGTH	18				
1.2.2	300MM WIDTH	LENGTH	10				
1.2.3	450MM WIDTH	LENGTH	2				
1.3	30 DEGREE RISER (INSIDE & OUTSIDE) C/W COVERS						
1.3.1	300MM WIDTH (INSIDE)	PC	4				
1.3.2	300MM WIDTH (OUTSIDE)	PC	4				
1.4	90 DEGREE RISER (INSIDE & OUTSIDE) C/W COVERS						
1.4.1	150MM (INSIDE)	PC	2				
1.4.2	150MM (OUTSIDE)	PC	2				
1.5	90 DEG. FLAT ELBOW C/W COVERS						
1.5.1	150MM	PC	8				
1.5.1	300MM	PC	2				
1.6	45 DEG. FLAT ELBOW C/W COVERS						
1.6.1	150MM	PC	10				
1.6.2	300MM	PC	2				
1.7	EQUAL TEE C/W COVERS						
1.7.1	150MM	PC	1				
1.8	SPLICE CONNECTORS AND ALL REQUIRED ACCESSORIES, BOLTS, NUTS, WASHERS, MATERIAL TO COMPLETE INSTALLATION FOR CABLE LADDERS LISTED IN THE ITEM 1	Lot	1				Vendor to calculate the required quantity of accessories (including 20% spare) and supply sufficient accessories for the complete installation of all proposed cable ladders.

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2	TUBING/CABLE TRAY AND ACCESSORIES						
	- CABLE TRAY SHALL BE 316SS, OUTWARD FACING, RETURN FLANGE TYPE 50MM HEIGHT X 3000MML, 1.5MM THICKNESS, COMPLY WITH IEC 61537. - CABLE TRAY SHALL INCLUDE SS316 SPLICE CONNECTORS; SS316 VERTICAL HOLD DOWN ANGLE BRACKETS; SS316 COVER CLAMPS FOR COVER; SS316 BOLTS, NUTS & WASHERS (SELF-LOCKING TYPE) & INSULATION SLEEVE; EARTHING JUMPERS AND ALL OTHER NECESSARY ACCESSORIES FOR INSTALLATION AS PER MANUFACTURE STANDARD.						
2.1	STRAIGHT TRAY (3 METRES PER SECTION / LENGTH)						
2.1.1	50MM WIDTH	LENGTH	14				1 Length for Telecom + 5 Legnths for site run
2.1.2	75MM WIDTH	LENGTH	11				5 Legnths for site run
2.1.3	100MM WIDTH	LENGTH	17				4 Lengths for Telecom
2.1.4	150MM WIDTH	LENGTH	10				
2.1.5	300MM WIDTH	LENGTH	12				
2.1.6	600MM WIDTH	LENGTH	2				
2.2	CABLE TRAY COVER (3 METRES PER SECTION / LENGTH)						
2.2.1	50MM WIDTH	LENGTH	14				
2.2.2	75MM WIDTH	LENGTH	11				
2.2.3	100MM WIDTH	LENGTH	17				
2.2.4	150MM WIDTH	LENGTH	10				
2.2.5	300MM WIDTH	LENGTH	12				
2.2.6	600MM WIDTH	LENGTH	2				
2.3	FLEXIBLE PLANE ELBOW C/W COVERS						
2.3.1	100MM	PC	5				
2.3.2	150MM	PC	5				
2.3.3	300MM	PC	1				
2.4	FLEXIBLE RISER C/W COVERS						
2.4.1	150MM	PC	2				
2.5	EQUAL TEE C/W COVERS						
2.5.1	150MM	PC	1				
2.6	SPLICE CONNECTORS AND ALL REQUIRED ACCESSORIES, BOLTS, NUTS, WASHERS, MATERIAL TO COMPLETE INSTALLATION FOR CABLE TRAYS LISTED IN THE ITEM 2	Lot	1				Vendor to calculate the required quantity of accessories (including 20% spare) and supply sufficient accessories for the complete installation of all proposed cable ladders.