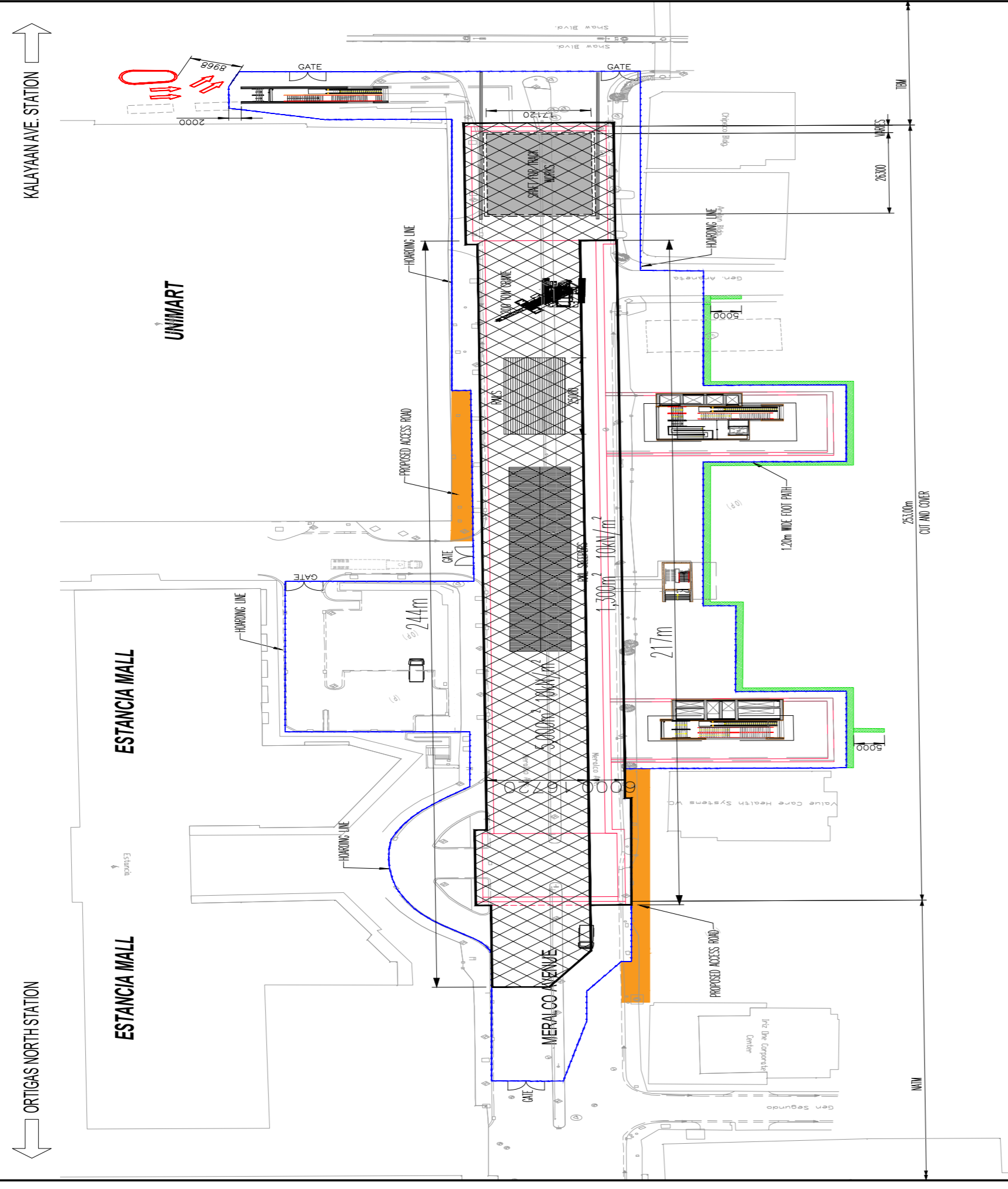




Section VI Works Requirements- Employer's Drawings (DRW)
Construction Plan Drawings
UT-CE-OS-0009 Ortigas South Station Site Utilization Track works

REFERENCE ONLY



 AREA OF PROPOSED TACK WORKS .YARD
 5,000m²

VERSIONS	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION (DOT)	CONSULTANT	METRO MANILA SUBWAY PROJECT PHASE1	DATE
2	13 Mar 2020	Issue for Bidding Documents	DOT, org	JICA DESIGN TEAM  KAI ORIENTAL CONSULTANTS GLOBAL CO.LTD TOKYO METRO CO. LTD. JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO.LTD. AIEC CORPORATION	PHASE1 PACKAGE CP 104	March 2020
				JICA DESIGN TEAM  KAI KATHIRAA&ENGINEERS INTERNATIONAL PACIFIC CONSULTANTS COLTD. TONGHENGINEERING CONSULTANTS INC.	PHASE1 PACKAGE CP 104	S=1:1000
				TITLE DESIGNER CHECK TEAM LEADER PR. MANAGER	JDT T. MITSUDA K. MATSUDA H. OKAWA S. NAKAMURA	SHEET No.
					ORTIGAS SOUTH STATION SITE UTILIZATION PLAN TRACK WORKS	DRG No.
						UT-CE-OS-0009
						DRG.S.
						REV
						1

Volume IA Part 1: Bill of Quantities (BOQ)

Section IV Bidding Form Bill of Quantities (BOQ)

BILL OF QUANTITIES

(a Part of Section IV. Bidding Forms)

Work Items - Bill No. 2 through Bill No. 5

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2
 STATION CIVIL STRUCTURE WORKS

Bill No.	DESCRIPTION	AMOUNT	
		LOCAL (PHP)	FOREIGN ()
	CP104		
Bill No.2	STATION CIVIL STRUCTURE WORKS		
Bill No. 2A	ORTIGAS NORTH STATION		
Bill No. 2B	ORTIGAS SOUTH STATION		
	TOTAL STATION CIVIL STRUCTURE WORKS		

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		PREPARATION AND TEMPORARY WORK						
2001	2001(3)	Removal of Sidewalk and Median	sqm	20,854				
2001	2001(5)	Clearing and Grubbing	m2	14,200				
2001	2001(4)	Removal of Lighting Poles	nos	7				
2000	2000(1)	Temporary Works	LS	1				
		SUB-TOTAL (PREPARATION AND TEMPORARY WORK)						
		DIAPHRAGM WALL						
2004	2004(1)	Mobilization and Demobilization of Equipment and Plant	LS	1				
		Installation and Removal of Guide Wall						
2004	2004(2)	Guide wall for Diaphragm Wall, W=1.2m	l.m.	104.6				
2004	2004(3)	Guide wall for Diaphragm Wall, W=1.0m	l.m.	689.6				
2004		Diaphragm Wall Installation, include Excavation, Concrete, Waterstop						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2004	2004(4)	Diaphragm Wall, W=1.2m, Concrete Class B	sqm	3,180				
2004	2004(5)	Diaphragm Wall, W=1.0m, Concrete Class B	sqm	18,546				
		Reinforcement Steel Bar						
2008	2008(1)	Re-bar for Diaphragm Wall, W=1.2m	ton	659				
2008	2008(2)	Re-bar for Diaphragm Wall, W=1.0m	ton	2,691				
		Couplers for Diaphragm Wall						
		Couplers for Diaphragm Wall, W=1.2m						
2008	2008(3)a	Coupler ϕ 40 for Diaphragm Wall, W=1.2m	nos	714				
2008	2008(3)b	Coupler ϕ 36 for Diaphragm Wall, W=1.2m	nos	554				
2008	2008(3)e	Coupler ϕ 25 for Diaphragm Wall, W=1.2m	nos	0				
2008	2008(3)g	Coupler ϕ 40/36 for Diaphragm Wall, W=1.2m	nos	1,268				
		Coupler ϕ 36/32 for Diaphragm Wall, W=1.2m	nos	160				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Coupler φ32/28 for Diaphragm Wall, W=1.2m	nos	160				
		Couplers for Diaphragm Wall, W=1.0m						
2008	2008(3)h	Coupler φ40 for Diaphragm Wall, W=1.0m	nos	0				
2008	2008((3)i	Coupler φ36 for Diaphragm Wall, W=1.0m	nos	0				
2008	2008(3)j	Coupler φ32 for Diaphragm Wall, W=1.0m	nos	412				
2008	2008(3)k	Coupler φ28 for Diaphragm Wall, W=1.0m	nos	725				
		Coupler φ25 for Diaphragm Wall, W=1.0m	nos	157				
2008	2008(3)n	Coupler φ40/36 for Diaphragm Wall, W=1.0m	nos	8,044				
2008	2008(3)p	Coupler φ36/32 for Diaphragm Wall, W=1.0m	nos	412				
2008	2008(3)q	Coupler φ32/28 for Diaphragm Wall, W=1.0m	nos	412				
2008	2008(3)r	Coupler φ28/25 for Diaphragm Wall, W=1.0m	nos	8,201				
		SUB-TOTAL (DIAPHRAGM WALL)						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		EARTH WORK						
		Excavation						
2003	2003(1)	Excavation for Station	cum	7,702				
2003	2003(2)	Excavation for Entrance and Ventilation Shafts/Ducts	cum	1,363				
		Excavation (Rock)						
2003	2003(3)	Excavation (Rock) for Station	cum	163,813				
2003	2003(4)	Excavation (Rock) for Entrance and Ventilation Shafts/Ducts	cum	41,178				
		Backfilling						
2003	2003(5)	Backfilling for Station	cum	27,502				
2003	2003(6)	Backfilling for Entrance and Ventilation Shafts/ Ducts	cum	22,526				
		SUB-TOTAL (EARTH WORK)						
		CONCRETE WORKS						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Concrete Class A						
2007	2007(1)	Concrete Class A for Columns and Wall of Station	cum	1,942				
		Concrete, Class A for Clumns Capitals of Station	cum	268				
		Concrete Class C1						
2007	2007(2)	Concrete Class C1 for Top Slab of Station	cum	6,621				
2007	2007(3)	Concrete Class C1 for Base Slab of Station	cum	8,073				
2007	2007(4)	Concrete Class C1 for External Structure of Entrance and Ventilation Shafts/Ducts	cum	5,739				
		Concrete Class C2						
2007	2007(5)	Concrete Class C2 for intermediate Slabs of Station	cum	10,864				
		Concrete Class C3						
2007	2007(6)a	Concrete, Class C3 for Clumns and Wall of Station	cum	162				
2007	2007(6)b	Concrete, Class C3 for Clumns Capitals of Station	cum	0				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2007	2007(6)c	Concrete, Class C3 for End Walls of Station	cum	760				
2007	2007(6)d	Concrete, Class C3 for Platform of Station	cum	774				
2007	2007(6)e	Concrete, Class C3 for Stairways of Station	cum	113				
2007	2007(6)f	Concrete, Class C3 for Escalators and Elevators of Station	cum	78				
2007	2007(6)g	Concrete, Class C3 for Partition Walls of Station	cum	0				
2007	2007(6)h	Concrete, Class C3 for Internal Structure of Entrance/Ventilation shaft	cum	763				
		Concrete Class D						
2007	2007(7)	Concrete, Class D for Plain Concrete	cum	1,817				
2007	2007(8)	Concrete Class D for Lean Concrete	cum	841				
		Concrete, Class D for Partition Walls of Station	cum	78				
		Reinforcement Steel Bar						
2008	2008(4)	Re-bar for Station	ton	5,067				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Cupler φ40 for Station	nos	190				
2008	2008(3)u	Cupler φ36 for Station	nos	6,338				
2008	2008(3)v	Cupler φ32 for Station	nos	9,546				
2008	2008(3)w	Cupler φ28 for Station	nos	4,373				
2008	2008(3)x	Cupler φ25 for Station	nos	22,444				
2008	2008(3)y	Cupler φ20 for Station	nos	8,524				
2008	2008(3)z	Cupler φ16 for Station	nos	487				
2008	2008(3)ab	Cupler φ36/32 for Station	nos	171				
2008	2008(3)ac	Cupler φ36/25 for Station	nos	0				
2008	2008(3)ad	Cupler φ32/28 for Station	nos	285				
2008	2008(3)ae	Cupler φ28/25 for Station	nos	0				
2008	2008(3)af	Cupler φ25/20 for Station	nos	284				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2008	2008(5)	Re-bar for Entrance and Ventilation Shafts/Ducts	ton	1,929				
		Drilled Steel Bars with Epoxy Resin						
2008	2008(6)	Drilled Re-bar for Slab to Diaphragm Wall of Entrance/Ventilation shaft	nos	1,515				
		SUB-TOTAL (CONCRETE WORKS)						
		WATERPROOFING						
		Waterproofing for Top Slab						
2011	2011(1)	Waterproofing membrane at Station Top Slab	sqm	6,545				
2011	2011(2)	Waterproofing membrane at Entrance and Ventilation Shaft Top Slab	sqm	1,333				
		Waterproofing for Base Slab						
2011	2011(3)	Waterproofing membrane at Station, Base Slab	sqm	6,761				
2011	2011(4)	Waterproofing membrane at Entrance and Ventilation Shaft Base Slab	sqm	1,711				
2011	2011(5)	Waterproofing for External Surface, Underground Structures	sqm	5,338				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		SUB-TOTAL (WATERPROOFING)						
		REINSTATEMENT OF EXISTING FACILITIES						
2005	2005(1)	Reinstatement of Subbase and Base Course	sqm	1,939				
2005	2005(2)	Reinstatement of Surface Course	sqm	9,693				
2005	2005(6)	Reinstatement of Single Arm Street Lighting	nos	7				
2005	2005(8)	Reinstatement of Panelboard for Street Lighting	nos	1				
2013	2013(1)	Pipe culvert φ200	l.m.	3				
2013	2013(2)	Pipe culvert φ300	l.m.	10				
2013	2013(8)	Manhole	nos	2				
2013	2013(6)	HDPE pipes and fittings, jointing	l.m.	29				
2013	2013(10)	Water meter	nos	1				
		SUB-TOTAL (REINSTATEMENT OF EXISTING FACILITIES)						
		MISCELLANEOUS WORK						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2A
 STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2004	2004(6)	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft	cum	821				
2013	2013(7)	Drain Pipe	l.m.	1,448				
2010	2010(1)	Evacuation Passage, Handrail and Step	l.m.	132.8				
		SUB-TOTAL (MISCELLANEOUS WORK)						
2012	2012(1)	Instrumentation and Monitoring	LS	1				
		SUB-TOTAL (Instrumentation and Monitoring)						
		GRAND TOTAL (STATION CIVIL STRUCTURE WORKS - ORTIGAS NORTH)						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		PREPARATION AND TEMPORARY WORK						
2001	2001(1)	Removal of Existing Asphalt/Concrete Paving and Base Course	sqm	4,450				
2001	2001(2)	Removal of Existing Concrete Curb at Sidewalk and Median	sqm	433				
2001	2001(3)	Removal of Sidewalk and Median	sqm	517				
2001	2001(5)	Clearing and Grubbing	m2	8,900				
2001	2001(4)	Removal of Lighting Poles	nos	19				
2000	2000(1)	Temporary Works	LS	1				
		SUB-TOTAL (PREPARATION AND TEMPORARY WORK)						
		DIAPHRAGM WALL						
2004	2004(1)	Mobilization and Demobilization of Equipment and Plant	LS	1				
	2004(2)	Installation and Removal of Guide Wall						
2004	2004(2)	Guide wall for Diaphragm Wall, W=1.2m	l.m.	216.7				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2004	2004(3)	Guide wall for Diaphragm Wall, W=1.0m	l.m.	387.0				
2004		Diaphragm Wall Installation, include Excavation, Concrete, Waterstop						
2004	2004(4)	Diaphragm Wall, W=1.2m, Concrete Class B	sqm	5,693				
2004	2004(5)	Diaphragm Wall, W=1.0m, Concrete Class B	sqm	9,464				
		Reinforcement Steel Bar						
2008	2008(1)	Re-bar for Diaphragm Wall, W=1.2m	ton	1,523				
2008	2008(2)	Re-bar for Diaphragm Wall, W=1.0m	ton	2,411				
		Couplers for Diaphragm Wall						
		Couplers for Diaphragm Wall, W=1.2m						
		Coupler φ40 for Diaphragm Wall, W=1.2m	nos	4,934				
2008	2008(3)b	Coupler φ36 for Diaphragm Wall, W=1.2m	nos	4,546				
2008	2008(3)c	Coupler φ32 for Diaphragm Wall, W=1.2m	nos	4,757				
2008	2008(3)d	Coupler φ28 for Diaphragm Wall, W=1.2m	nos	823				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2008	2008(3)e	Coupler φ25 for Diaphragm Wall, W=1.2m	nos	1,446				
2008	2008(3)f	Coupler φ20 for Diaphragm Wall, W=1.2m	nos	2,268				
2008	2008(3)g	Coupler φ40/36 for Diaphragm Wall, W=1.2m	nos	2,490				
		Couplers for Diaphragm Wall, W=1.0m						
2008	2008(3)i	Couplers φ36 for Diaphragm Wall, W=1.0m	nos	7,741				
2008	2008(3)j	Couplers φ32 for Diaphragm Wall, W=1.0m	nos	7,741				
2008	2008(3)l	Couplers φ25 for Diaphragm Wall, W=1.0m	nos	7,741				
2008	2008(3)m	Couplers φ20 for Diaphragm Wall, W=1.0m	nos	2,581				
2008	2008(3)o	Couplers φ40/32 for Diaphragm Wall, W=1.0m	nos	10,321				
		SUB-TOTAL (DIAPHRAGM WALL)						
		EARTH WORK						
		Excavation						
2003	2003(1)	Excavation for Station	cum	12,258				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2003	2003(2)	Excavation for Entrance and Ventilation Shafts/Ducts	cum	6,859				
		Excavation (Rock)						
2003	2003(3)	Excavation (Rock) for Station	cum	110,329				
2003	2003(4)	Excavation (Rock) for Entrance and Ventilation Shafts/Ducts	cum	35,927				
		Backfilling						
2003	2003(5)	Backfilling for Station	cum	26,335				
2003	2003(6)	Backfilling for Entrance and Ventilation Shafts/ Ducts	cum	15,147				
		SUB-TOTAL (EARTH WORK)						
		CONCRETE WORKS						
		Concrete Class A						
2007	2007(1)a	Concrete Class A for Columns and Wall of Station	cum	1,349				
2007	2007(1)b	Concrete Class A for Column Capitals of Station	cum	120				
		Concrete Class C1						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2007	2007(2)	Concrete Class C1 for Top Slab of Station	cum	5,123				
2007	2007(3)	Concrete Class C1 for Base Slab of Station	cum	5,720				
2007	2007(4)	Concrete Class C1 for External Structure of Entrance and Ventilation Shafts/Ducts	cum	8,044				
		Concrete Class C2						
2007	2007(5)	Concrete Class C2 for intermediate Slabs of Station	cum	8,629				
		Concrete Class C3						
2007	2007(6)c	Concrete, Class C3 for Ends wall of Station	cum	693				
2007	2007(6)d	Concrete, Class C3 for Platform of Station	cum	721				
2007	2007(6)e	Concrete, Class C3 for Stairways of Station	cum	56.5				
2007	2007(6)f	Concrete, Class C3 for Escalators and Elevators of Station	cum	78.4				
2007	2007(6)h	Concrete, Class C3 for Internal Structure of Entrance/Ventilation shaft	cum	2,520				
		Concrete Class D						
2007	2007(7)	Concrete, Class D for Plain Concrete	cum	1,878				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2007	2007(8)	Concrete Class D for Lean Concrete	cum	670				
		Reinforcement Steel Bar						
2008	2008(4)	Re-bar for Station	ton	3,953.3				
2008	2008(3)s	Coupler φ50 for Station	nos	536				
2008	2008(3)t	Coupler φ40 for Station	nos	1,266				
		Coupler φ36 for Station	nos	1,120				
2008	2008(3)v	Coupler φ32 for Station	nos	835				
2008	2008(3>w	Coupler φ28 for Station	nos	2,055				
2008	2008(3>x	Coupler φ25 for Station	nos	4,141				
2008	2008(3>y	Coupler φ20 for Station	nos	8,431				
2008	2008(3>z	Coupler φ16 for Station	nos	777				
2008	2008(3>aa	Coupler φ50/40 for Station	nos	92				
		Coupler φ36/28 for Station	nos	260				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Coupler φ32/25 for Station	nos	88				
2008	2008(3)ae	Coupler φ28/25 for Station	nos	0				
		Coupler φ25/20 for Station	nos	14				
		Coupler φ20/16 for Station	nos	22				
2008	2008(5)	Re-bar for Entrance and Ventilation Shafts/Ducts	ton	1,372				
		Drilled Steel Bars with Epoxy Resin						
2008	2008(6)	Drilled Re-bar for Slab to Diaphragm Wall of Entrance/Ventilation shaft	nos	1,818				
		SUB-TOTAL (CONCRETE WORKS)						
		WATERPROOFING						
		Waterproofing for Top Slab						
2011	2011(1)	Waterproofing membrane at Station Top Slab	sqm	4,855				
2011	2011(2)	Waterproofing membrane at Entrance and Ventilation Shaft Top Slab	sqm	1,714				
		Waterproofing for Base Slab						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 BILL NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2011	2011(3)	Waterproofing membrane at Station, Base Slab	sqm	4,925				
2011	2011(4)	Waterproofing membrane at Entrance and Ventilation Shaft Base Slab	sqm	1,884				
2011	2011(5)	Waterproofing for External Surface, Underground Structures	sqm	5,684				
		SUB-TOTAL (WATERPROOFING)						
		REINSTATEMENT OF EXISTING FACILITIES						
2005	2005(1)	Reinstatement of Subbase and Base Course	cum	998				
2005	2005(2)	Reinstatement of Surface Course	sqm	4,992				
2005	2005(3)	Reinstatement of Traffic Marking	sqm	4,992				
2005	2005(4)	Reinstatement of Curb and Gutter	l.m.	660				
2005	2005(5)	Reinstatement of Median Strip	l.m.	228				
2005	2005(6)	Reinstatement of Single Arm Street Lighting	nos	7				
2005	2005(7)	Reinstatement of Double Arm Street Lighting	nos	12				
2005	2005(8)	Reinstatement of Panelboard for Street Lighting	nos	1				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2005	2005(9)	Reinstatement of Street Signs	nos	13				
2013	2013(2)	Pipe culvert φ300	l.m.	23				
2013	2013(3)	Pipe culvert φ450	l.m.	102				
2013	2013(4)	Pipe culvert φ600	l.m.	396				
2013	2013(5)	Pipe culvert φ700	l.m.	69				
2013	2013(8)	Manhole	nos	33				
2013	2013(9)	Catch Basin	nos	7				
2013	2013(6)	HDPE pipes and fittings, jointing	l.m.	25				
2013	2013(10)	Water meter	nos	1				
		SUB-TOTAL (REINSTATEMENT OF EXISTING FACILITIES)						
		MISCELLANEOUS WORK						
2004	2004(6)	Demolition of Diaphragm Wall for passenger-way, cut and cover tunnel and Ventilation shaft	cum	1,501				
2013	2013(7)	Drain pipe	l.m.	953				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.2B
 STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		SUB-TOTAL (MISCELLANEOUS WORK)						
2012	2012(1)	Instrumentation and Monitoring	LS	1				
		SUB-TOTAL (Instrumentation and Monitoring)						
		GRAND TOTAL (STATION CIVIL STRUCTURE WORKS - ORTIGAS SOUTH)						

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.3
 TUNNEL WORKS

Bill No.	DESCRIPTION	AMOUNT	
		LOCAL (PHP)	FOREIGN ()
	CP104		
Bill No.3	TUNNEL WORKS		
Bill No.3A	TBM:ORTIGAS NORTH - ORTIGAS SOUTH		
Bill No. 3B	TBM:ORTIGAS SOUTH - KALAYAAN AVENUE		
Bill No. 3C	NATM:ORTIGAS NORTH - ORTIGAS SOUTH		
	TOTAL TUNNEL WORKS		

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.3A
 TUNNEL WORKS – TBM, ORTIGAS NORTH ~ ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Tunnel Works (TBM, Ortigas North Station ~ Ortigas South Station)						
		TEMPORARY WORK						
2100	2100(1)	U-turning of TBM inside Station Structures and Cut and Cover Tunnel	ea	1				
2100	2100(2)	Provision of Tunnel Boring Machine (TBM) with Accessory	LS	1				
		SUB-TOTAL (TEMPORARY WORK)						
		TUNNEL WORK						
2100	2100(3)	Tunnel Excavation	l.m.	1,566.0				
2100	2100(4)	Production and Installation of Tunnel Segment (Concrete Class E / Class F)	l.m.	1,557.0				
2100	2100(5)	Water Tightness and In-situ Linining at Tunnel Portal	l.m.	9.0				
2100	2100(6)	Concrete Class D for Tunnel Invert Concrete	l.m.	1,566.0				
2100	2100(7)	Installation of Trough Stand, Evacuation Passage, Ladder and Handrail	l.m.	1,566.0				
		SUB-TOTAL (TUNNEL WORK)						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.3A
 TUNNEL WORKS – TBM, ORTIGAS NORTH ~ ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		MISCELLANEOUS WORK						
		SUB-TOTAL (MISCELLANEOUS WORK)						
		GRAND TOTAL (TUNNEL WORKS – TBM, ORTIGAS NORTH ~ ORTIGAS SOUTH)						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.3B
 TUNNEL WORKS – TBM, ORTIGAS SOUTH ~ KALAYAAN AVENUE**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Tunnel Works (TBM, Ortigas South Station ~ Kalayaan Station)						
		TEMPORARY WORK						
2100	2100(2)	Provision of Tunnel Boring Machine (TBM) with Accessory	LS	1				
		SUB-TOTAL (TEMPORARY WORK)						
		TUNNEL WORK						
2100	2100(3)	Tunnel Excavation	l.m.	3,726.0				
2100	2100(4)	Production and Installation of Tunnel Segment (Concrete Class E / Class F)	l.m.	3,717.0				
2100	2100(5)	Water Tightness and In-situ Linining at Tunnel Portal	l.m.	9.0				
2100	2100(6)	Concrete Class D for Tunnel Invert Concrete	l.m.	3,726.0				
2100	2100(7)	Installation of Trough Stand, Evacuation Passage, Ladder and Handrail	l.m.	3,726.0				
		SUB-TOTAL (TUNNEL WORK)						
		MISCELLANEOUS WORK						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.3B
 TUNNEL WORKS – TBM, ORTIGAS SOUTH ~ KALAYAAN AVENUE**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
2100	2100(8)	Intermediate Pit	LS	1				
		SUB-TOTAL (MISCELLANEOUS WORK)						
		GRAND TOTAL (TUNNEL WORKS – TBM, ORTIGAS SOUTH ~ KALAYAAN AVENUE)						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.3C
 TUNNEL WORKS – NATM, ORTIGAS NORTH ~ ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Tunnel Works (NATM, Ortigas North Station and Ortigas South Station)						
2200	2200(1)	Tunnel Excavation for NATM Main Tunnel	l.m.	286.9				
		SUB-TOTAL (Tunnel Excavation for NATM Main Tunnel)						
		Temporary Support for NATM Main Tunnel						
		Shotcrete						
2200	2200(2)	Shotcrete thickness 100mm	sqm	3,048.0				
2200	2200(3)	Shotcrete thickness 150mm	sqm	5,977.0				
		Shotcrete thickness 200mm	sqm	262.0				
2200	2200(4)	MS Welded Wire Mesh	sqm	6,237.0				
2200	2200(5)	Steel Support	ton	116.4				
		SUB-TOTAL (Temporary Support for NATM Main Tunnel)						
		Cast-in-Situ Concrete for NATM Main Tunnel including waterproofing						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.3C
 TUNNEL WORKS – NATM, ORTIGAS NORTH ~ ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Lininig Concrete and waterproofing						
2200	2200(6)	Reinforced Cement Lining Concrete	l.m.	285.3				
		Invert Concrete and waterproofing						
2200	2200(7)	Reinforced Cement Invert Concrete	l.m.	285.3				
2200	2200(8)	Installation of Trough Stand, Evacuation Passage, Ladder and Step	l.m.	286.9				
		SUB-TOTAL (Cast-in-Situ Concrete for NATM Main Tunnel including waterproofing)						
		Cast-in-Situ Concrete for NATM Main Tunnel						
2200	2200(9)	Invert Concrete	l.m.	285.3				
2200	2200(10)	Portal Structure	cum	62.7				
		SUB-TOTAL (Cast-in-Situ Concrete for NATM Main Tunnel)						
		GRAND TOTAL (TUNNEL WORKS – NATM, ORTIGAS NORTH ~ ORTIGAS SOUTH)						

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4
 STATIONS ARCHITECTURAL WORKS

Bill No.	DESCRIPTION	AMOUNT	
		LOCAL (PHP)	FOREIGN ()
	CP104		
Bill No. 4	STATIONS ARCHITECTURAL WORKS		
Bill No. 4A	ORTIGAS NORTH STATION		
Bill No. 4B	ORTIGAS SOUTH STATION		
	TOTAL STATIONS ARCHITECTURAL WORKS		

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	PART A	EARTHWORKS						
803	803 (1) a	Structure Excavation (Common Soil)	m3	556.40				
803	803(4)	Gravel Fill	m3	41.69				
1034	1034(1)a	Damp proofing	m2	718.88				
1000	1000 (1)	Soil Poisoning/Termiticide Application	m2	810.49				
803	803 (2)	Trimming Works	m2	721.09				
		SUB-TOTAL (PART A - EARTHWORKS)						
	PART D	BUILDING WORKS						
	D.1	STRUCTURAL WORKS						
900	900 (1) (c2)	Structural Concrete (Footings and Slab on Fill) 27.6 MPa at 28 days	m3	104.63				
900	900 (1) (c3)	Structural Concrete (Footing Tie Beams) 27.6 MPa at 28 days	m3	1.95				
900	900 (1) (c4)	Structural Concrete (Columns) 27.6 MPa at 28 days	m3	15.21				
900	900 (1) (c5)	Structural Concrete (Suspended Slab) 27.6 MPa at 28 days	m3	189.56				
900	900 (1) (c6)	Structural Concrete (Beams / Girders) 27.6 MPa at 28 days	m3	118.15				
900	900 (1) (c1)	Structural Concrete (27.6 MPa) at 28 days	m3	1,620.68				
901	901 (1)	Lean Concrete 17 MPa at 28 days	m3	46.32				
902	902 (1) a1	Reinforcing Steel (Deformed), Grade 40	kg	138,270.76				
902	902 (2) a2	Reinforcing Steel (Deformed), Grade 60	kg	193,129.40				
1047	1047 (2)	Structural Steel	kg	270,566.91				
903	903 (2)	Formworks and Falseworks	m2	15,433.84				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1047	1047 (15)	Hoist Crane Beam Assembly and Anchoring System	ls	1.00				
900	900 (8)	Preformed Joint Fillers	m3	1.53				
1033	1033 (3)	Catwalk for Equipment Maintenance	ls	1.00				
		SUB-TOTAL (D.1 - STRUCTURAL WORKS)						
	D.2	ARCHITECTURAL WORKS						
		Ceiling Works						
1027	1027 (5)	Rubbed Concrete Finish	m2	9,751.02				
1811	1811 (1)	Triangular Aluminum Ceiling	m2	393.92				
1811	1811 (2)	Aluminum Ceiling Panel (Triangular Printed); 1200mm x 600mm	m2	3,782.60				
1811	1811 (3)	Aluminum Ceiling Panel (Triangular Printed); 600mm x 600mm	m2	504.46				
1811	1811 (4)	Spandrel Panel Ceiling	m2	70.67				
1811	1811 (5)	Metal Concealed Ceiling Panel	m2	289.91				
1811	1811 (6)	Curved Metal Panel	m2	1,708.75				
1811	1811 (7)	Aluminum Ceiling Panel with Perforation	m2	117.96				
1811	1811 (8)	Aluminum Ceiling Panel without Perforation	m2	102.16				
1811	1811 (9)	Aluminum Composite Panel Cladding	m2	26.28				
1030	1030 (1)	Concealed Grid Mineral Acoustical Board	m2	380.08				
1030	1030 (2)	Moisture Resistant Gypsum Board	m2	284.73				
1811	1811 (10)	Solid Plate	m2	126.20				
1203	1203 (1)	Stainless Steel Ceiling Panel	m2	10.00				
		SUB-TOTAL (Ceiling Works)						
		Steel Doors and Frames						
1006	1006 (5)	Fire-rated Exit Steel Door Set	m2	199.16				
1006	1006 (1)	Hollow Steel Door Set	m2	57.52				
1006	1006 (7)	Steel Sliding Door Set	m2	10.95				
1006	1006 (8)	Watertight Doors - WS-3	m2	6.57				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1818	1818 (1)	Glass Doors	m2	7.88				
		Ironmongeries						
1004	1004 (2) g	Finishing Hardware Hinges	set	572.00				
1004	1004 (2) d	Finishing Hardware Door Closer	set	116.00				
1004	1004 (2) b	Finishing Hardware Latches	set	52.00				
1004	1004 (2) fl	Finishing Hardware Handles - Lever Handles on Plates	set	178.00				
1004	1004 (2) j1	Finishing Hardware Plates - Kick Plates	set	266.00				
1004	1004 (2) g6	Finishing Hardware Hinges - SUS Bottom Rail Hinge w/ Lockset	set	6.00				
1004	1004 (2) g7	Finishing Hardware Hinges - SUS Top Rail Hinge	set	6.00				
1004	1004 (2) a10	Finishing Hardware Lockset - Emergency Exit Push Bar Panic Device	set	14.00				
1004	1004 (2) a1	Finishing Hardware Lockset - O/S Key Operation	set	10.00				
1004	1004 (2) a2	Finishing Hardware Lockset - Waterproof Type German Lock	set	4.00				
1004	1004 (2) a3	Finishing Hardware Lockset - Dead Lock	set	1.00				
1004	1004 (2) a5	Finishing Hardware Lockset - Electromagnetic Lock	set	17.00				
1004	1004 (2) a6	Finishing Hardware Lockset - Electromagnetic Lock with Emergency Release Lock	set	31.00				
1004	1004 (2) a8	Finishing Hardware Lockset - Turn and Release Lock with Indicator	set	4.00				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1004	1004 (2) a9	Finishing Hardware Lockset - Turn and Release Lock	set	5.00				
1004	1004 (2) a11	Finishing Hardware Lockset - Cylindrical Lock with Door Sensor	set	18.00				
1004	1004 (2) d2	Finishing Hardware Door Closer - Sliding Door Track Guide	set	10.00				
1004	1004 (2) f	Finishing Hardware Handles	set	22.00				
1004	1004 (2) f2	Finishing Hardware Handles - Waterstop Lever Handle	set	2.00				
1004	1004 (2) g3	Finishing Hardware Hinges - Two Axis Hinge	set	4.00				
1004	1004 (2) g4	Finishing Hardware Hinges - Floor Hinges	set	10.00				
1004	1004 (2) j	Finishing Hardware Push Plate	set	58.00				
1004	1004 (2) j3	Finishing Hardware Plates - Combination Plate	set	58.00				
1004	1004 (2) g8	Finishing Hardware Hinges - Top & Bottom Pivot	set	7.00				
1004	1004 (2) m	Finishing Hardware Rollers - Top & Bottom Rollers	set	7.00				
1004	1004 (2) c3	Finishing Hardware Bolts - Top Flush Bolt	set	29.00				
1004	1004 (2) a12	Finishing Hardware Lockset - Panic Exit Device/Latch	set	18.00				
1004	1004 (2) f2	Finishing Hardware Handles - Waterstop Lever Handle	set	2.00				
1004	1004 (2) a7	Finishing Hardware Lockset - Electromagnetic Lock with Emergency Combination Detector	set	3.00				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1004	1004 (2) 11	Finishing Hardware Seal - Neoprene Sponge	set	4.00				
		Platform Screen Doors "PSD" "BY OTHERS"						
		SUB-TOTAL (Steel Doors and Frames)						
		Aluminum Windows						
1817	1817	Stainless Steel Windows	m2	52.31				
		Frameless Glass Windows						
1012	1012 (9) a2	Laminated Glass - 12mm	m2	4.06				
		SUB-TOTAL (Aluminum Windows)						
		Metal Louvers						
1804	1804 (1)	Extruded Aluminum Vertical Louvers	m2	1,488.47				
1804	1804 (2)	Extruded Aluminum Horizontal Louvers with Insect Screen	m2	0.56				
1804	1804 (3)	Extract Air Aluminum Louver with Insect Screen	m2	9.65				
		SUB-TOTAL (Metal Louvers)						
		Rolling Up Doors						
1011	1011 (1) b	Fire Shutter Door	m2	175.42				
1011	1011 (1) a	Roll -up Security Shutter Door	m2	70.59				
1011	1011 (1) c	FS Fire Shutter Door with Access Door	m2	37.64				
1809	1809	Flood Barrier Assembly - Manual	m2	1.86				
1809	1809 (1)	Flood Barrier Assembly - Automatic	m2	1.86				
		SUB-TOTAL (Rolling Up Doors)						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Pre-painted Metal Sheets						
1039	1039	Parapet Wall Aluminum Coping	m2	201.30				
1235	1235 (7)	Aluminum Rectangular Pipe	lm	22.01				
		SUB-TOTAL (Pre-painted Metal Sheets)						
		Waterproofing						
1016	1016 (2)	Bituminous Waterproofing	m2	2,139.42				
1016	1016 (1) b	Elastomeric Waterproofing	m2	1,049.76				
1016	1016 (1) a	Cementitious Waterproofing	m2	611.28				
		SUB-TOTAL (Waterproofing)						
		Masonry Works						
1046	1046 (4) a2	Solid Blocks Non-Load Bearing 150 mm	m2	4,535.00				
1046	1046 (4) a3	Solid Blocks Non-Load Bearing 175mm	m2	655.80				
1046	1046 (1) a2	CHB Load Bearing (including Reinforcing Steel) 150mm	m2	7,264.03				
		SUB-TOTAL (Masonry Works)						
		Wall Finishes						
1027	1027 (1)	Cement Plaster Finish	m2	35,547.30				
1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30	m2	1,934.25				
1018	1018 (3) a2	Granite Stone Honed Finish – 1200x150x30	m2	472.68				
1018	1018 (3) b1	Granite Stone Polished – 1200x600x30	m2	485.59				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1018	1018 (3) b2	Granite Stone Polished – 1200x150x30	m2	166.61				
1018	1018 (3) b3	Granite Stone Polished – 1200x800x30	m2	1,157.15				
1018	1018 (5) b6	Glazed Ceramic Tile – 1200x600x10	m2	1,325.91				
1018	1018 (5) b3	Glazed Ceramic Tile – 1200x150x10	m2	329.00				
1018	1018 (5) b7	Glazed Ceramic Tile – 600x300x6	m2	271.35				
1018	1018 (5) b4	Glazed Ceramic Tile – 3000x1000x6	m2	836.15				
1018	1018 (5) b1	Glazed Ceramic Tile – 600x600x10	m2	518.59				
1031	1031 (1) c	Glass Wool Acoustic Panel	m2	4,040.63				
1814	1814 (1) b1	Wall Access Panel Standard Fire-rated - 500 x 875 mm	no	157.00				
1814	1814 (1) b2	Wall Access Panel Standard Fire-rated - 3000 x 3500 mm	no	1.00				
1814	1814 (1) b3	Wall Access Panel Standard Fire-rated - 4500 x 3500 mm	no	1.00				
1814	1814 (1) b4	Wall Access Panel Standard Fire-rated - 5000 x 4500 mm	no	2.00				
1041	1041 (1) a3	Gypsum Board 118mm	m2	676.90				
1041	1041 (1) a4	Gypsum Board 140mm	m2	39.56				
1816	1816 (1) a3	Phenolic Partition - Shower Partition	m2	41.79				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1816	1816 (1) a1	Phenolic Partition - Toilet Partition	m2	202.32				
1816	1816 (1) a2	Phenolic Partition - Urinal Partition	m2	7.48				
		SUB-TOTAL (Wall Finishes)						
		Floor Finishes						
1018	1018 (3) c1	Granite Stone Flamed - 600x600x25	m2	5,659.00				
1018	1018 (3) c2	Granite Stone Flamed - 600x300x25	m2	391.00				
1018	1018 (3) b4	Granite Stone Polished – 1200x80x25	m2	38.22				
1018	1018 (3) b5	Granite Stone Polished - 1200x150x25	m2	59.00				
1018	1018 (3) b7	Granite Stone Polished - 1200x600x25	m2	6.00				
1018	1018 (3) b6	Granite Stone Polished - 600x150x25	lm	176.10				
1203	1203 (1)	Granite Flooring; to Elevator	m2	10.00				
1018	1018 (8) a1	Stainless Steel Warning Hazard Tactile	m2	124.00				
1018	1018 (8) a2	Stainless Steel Directional Tactile	m2	163.00				
1018	1018 (8) a3	Stainless Steel Position Tactile	m2	18.10				
1018	1018 (7) a1	Non-Slip Ceramic Tile – 300x300x10	m2	138.00				
1018	1018 (7) a2	Non-Slip Ceramic Tile – 600x600x10	m2	318.00				
1808	1808	Raised Access Floor Assembly	m2	496.00				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1020	1020 (1)	Vinyl Floor Tile	m2	791.00				
1801	1801 (1)	Epoxy Coating - Dust Proofing	m2	496.00				
1021	1021 (1) c2	Cement Floor Finish - Cinder Concrete-Filled Floor with Trowel Finish and Concrete Hardener	m2	436.00				
1021	1021 (1) c1	Cement Floor Finish - Concrete Trowel with Floor Hardener	m2	7,747.00				
1021	1021 (4) a	Straight to Finish - Lightweight Concrete with Trench	m3	533.00				
1814	1814 (1) a1	Floor Access Panel Precast Concrete Block 2-hr Fire-rated - 4500 x 4000 mm	no	1.00				
1814	1814 (1) a2	Floor Access Panel Precast Concrete Block 2-hr Fire-rated - 6000 x 4000 mm	no	1.00				
1803	1803 (3) a	Stainless Steel Cover in between Stair and Escalator	m2	32.02				
		SUB-TOTAL (Floor Finishes)						
		Painting, Varnishing and Other Related Works						
1032	1032 (1) a1	Painting Works (Masonry/Concrete) – Acrylic Emulsion	m2	1,754.10				
1032	1032 (1) a2	Painting Works (Masonry/Concrete) – Acrylic Polyurethane	m2	16,775.50				
1032	1032 (1) a3	Painting Works (Gypsum) – Acrylic Emulsion	m2	284.73				
		SUB-TOTAL (Painting, Varnishing and Other Related Works)						
		Skylights						
1012	1819 (1) a	Pre-fabricated modular glass roof	m2	91.33				
		SUB-TOTAL (Skylights)						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Glass and Glazing						
1012	1012 (9) a2	Laminated glass - 12mm	m2	28.67				
1012	1012 (9) a1	Fire Rated Laminated Glass - 2-6mm with Polyvinyl Butyral Film Interlayer and Security Film	m2	164.34				
1012	1012 (10) a1	Toughened Glass - 12mm with Frosted Film	m2	922.08				
1012	1012 (5) e	Tempered Back painted Glass - 12mm	m2	228.42				
		SUB-TOTAL (Glass and Glazing)						
		Metal Structures						
1047	1047 (12)	Hot-dip Galvanized Steel Ladder	lm	46.61				
1047	1047 (14)	Platform H-beam Light Box	kg	11,558.23				
1805	1805 (1) a1	Stainless Steel Floor Grating	m2	65.94				
1033	1033 (2)	FRP Chequered Plate Cover	m2	1.00				
1814	1814 (1) c1	Roof Access Hatch Cover	no	1.00				
		Trenches						
1805	1805 (1) a2	Stainless Steel Floor Grating - High Voltage Trench	m2	83.80				
1805	1805 (1) a3	Stainless Steel Floor Grating - Low Voltage Trench	m2	56.60				
		SUB-TOTAL (Metal Structures)						
		Fence and Railings						

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1051	1051 (5) a1	Stainless Steel Railing	lm	99.13				
1051	1051 (5) a2	Stainless Steel Upper and Lower Railing - Wall Mounted	lm	328.49				
1051	1051 (5) a4	Stainless Railing with Swing Door	lm	2.51				
1051	1051 (5) a5	Stainless Steel Guardrail	lm	25.16				
1051	1051 (5) b1	Stainless Steel Handrail with Glass Railing - 1400mm height	lm	73.62				
1051	1051 (5) b2	Stainless Steel Handrail with Glass Railing and Door	lm	6.74				
1051	1051 (5) b3	Stainless Steel Handrail with Glass Railing - 1200mm height	lm	90.61				
1051	1051 (6) a1	Hot-dip Galvanized Railing	lm	296.62				
1051	1051 (6) a2	Hot-dip Galvanized Handrail with Double Action Foldable Door	lm	10.00				
1051	1051 (5) a3	Stainless Steel Handrail - 950 mm height	lm	13.86				
1051	1051 (6) a3	Hot-dip Galvanized Handrail - Wall Mounted	lm	115.92				
		SUB-TOTAL (Fence and Railings)						
		Baseboards, thresholds & Nosing Finish						
1018	1018 (3) b9	Granite Stone Polished - 30mm thk	lm	1,699.21				
1018	1018 (3) b10	Granite Stone Polished - 20mm thk	lm	122.84				

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 Bill NO.4A
 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1018	1018 (3) a3	Granite Stone Honed Finish - 200mm Threshold	lm	119.58				
1807	1807 (1)	Stainless Steel Skirting; 300mm	lm	186.15				
1018	1018 (5) b8	Glazed Ceramic Tile - 300x100x10	lm	132.67				
1018	1018 (5) b5	Glazed Ceramic Tile - 600x100x10	lm	28.15				
1020	1020 (2)	Vinyl Tile Skirting	lm	540.17				
1032	1032 (1) a4	Painting Works (Masonry/Concrete) - Acrylic Emulsion H=100mm	lm	148.14				
1801	1801 (2)	Epoxy Coating	lm	773.07				
		SUB-TOTAL (Baseboards, thresholds & Nosing Finish)						
		Signage						
1813	1813 (1)	Identification Signs	ls	1.00				
1813	1813 (2)	Information Signs	ls	1.00				
1813	1813 (3)	Wayfinding / Directional Signs	ls	1.00				
1813	1813 (4)	Explanatory Signs	ls	1.00				
1813	1813 (7)	Evacuation Direction Indicators	ls	1.00				
1813	1813 (8)	Room Identification Signages	ls	1.00				
		SUB-TOTAL (Signage)						
		SUB-TOTAL (D.2 - ARCHITECTURAL WORKS)						
	D.4	MISCELLANEOUS						
1812	1812 (1)	System Furniture	ls	1.00				
1812	1812 (2)	Office Furnitures	ls	1.00				
1812	1812 (4)	Built-ins	ls	1.00				
1822	1822 (1)	Quartz Countertop	m2	19.33				
1822	1822 (2)	Quartz Ledge	m2	23.89				
1821	1821	Stainless Steel Countertop	m2	13.69				

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 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Plumbing Fixtures						
1002	1002 (14) a1	Hand Rinse Basin, wall hung Sensor Type (Lavatory faucet included under this pay item)	set	7.00				
1002	1002 (10) a2	Urinal with flush valve complete Sensor Type	set	10.00				
1002	1002 (13)	Cleaner's sink complete	set	5.00				
1002	1002 (15) a1	Wash Hand Basin (Lavatory Counter Top) above Counter, complete sensor type (Lavatory faucet included under this pay item)	set	22.00				
1002	1002 (9) a3	Water Closet elongated complete, Automatic Flush valve (Water closet Flush Panel included under this pay item)	set	26.00				
		Stainless Steel Grab Bar						
1002	1002 (18) a1	Stainless Steel Grab Bar, 40mm dia - Vertical	lm	6.19				
1002	1002 (18) a2	Stainless Steel Grab Bar, 40mm dia - Horizontal	lm	3.92				
1002	1002 (18) a3	Stainless Steel Grab Bar, 40mm dia - Dropdown	lm	5.47				
		Toilet Accessories						
1002	1002 (28) a2	Lever-Operated Mixer Tap	set	24.00				
1002	1002 (28) a3	Cleaner's Tap	set	5.00				
1002	1002 (28) b1	Toilet Paper Holder	set	24.00				
1002	1002 (28) b2	Toilet Paper Dispenser	set	5.00				
1002	1002 (28) c1	Soap Holder	set	6.00				

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 STATION ARCHTECTURE WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1002	1002 (28) c2	Soap Dispenser	set	24.00				
1002	1002 (28) d1	Hand dryer	set	10.00				
1002	1002 (20)	Framed Mirror with T5 LED backlight	m2	27.06				
1002	1002 (28) e1	Trash Bins	set	11.00				
1002	1002 (28) e2	Sanitary Disposal Bins	set	4.00				
1002	1002 (28) f1	Robe Hook	set	34.00				
1002	1002 (28) f2	Towel Rail	set	6.00				
1002	1002 (28) e3	Sanitary Dispenser	set	3.00				
1002	1002 (28) a1	Shower Head/Shower Valve	set	6.00				
		GAD Toilet Accessories						
1002	1002 (28) g1	Folding Bed	set	2.00				
1002	1002 (28) g2	Baby Chair	set	4.00				
1002	1002 (28) g3	Diaper Change Bed	set	3.00				
1002	1002 (28) h1	Ostomate Toilet	set	2.00				
1002	1002 (28) h2	Alarm Reset Button	set	2.00				
1002	1002 (28) h3	Alarm Pull Chord (2 Bangles)	set	2.00				

**DEPARTMENT OF TRANSPORTATION
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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1810	1810	Smoke Curtains Assembly	m2	57.95				
		Elevator Handrails						
1203	1203 (1)	Stainless Steel Railing	lm	11.65				
1035	1035 (2)	Gallery Wall Stainless Steel Structural Module	m2	343.78				
		SUB-TOTAL (D.4 - MISCELLANEOUS)						
		GRAND TOTAL-STATION ARCHITECTURAL WORKS (ORTIGAS NORTH)						

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 METRO MANILA SUBWAY PROJECT
 PHASE 1
 BILL NO.4B
 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	PART A	EARTHWORKS						
803	803 (1) a	Structure Excavation (Common Soil)	m3	723.56				
803	803(4)	Gravel Fill	m3	101.84				
1034	1034(1) a	Damp Proofing	m2	879.23				
1000	1000 (1)	Soil Poisoning/Termiticide Application	m2	970.83				
803	803 (2)	Trimming Works	m2	885.38				
		SUB-TOTAL (PART A - EARTHWORKS)						
	PART D	BUILDING WORKS						
	D.1	STRUCTURAL WORKS						
900	900 (1) (c2)	Structural Concrete (Footings and Slab on Fill) 27.6 MPa at 28 days	m3	64.08				
900	900 (1) (c3)	Structural Concrete (Footing Tie Beams) 27.6 MPa at 28 days	m3	1.60				
900	900 (1) (c4)	Structural Concrete (Columns) 27.6 MPa at 28 days	m3	9.23				
900	900 (1) (c5)	Structural Concrete (Suspended Slab) 27.6 MPa at 28 days	m3	163.39				
900	900 (1) (c6)	Structural Concrete (Beams / Girders) 27.6 MPa at 28 days	m3	92.54				
900	900 (1) (c1)	Structural Concrete (27.6 MPa) at 28 days	m3	1,566.44				
901	901 (1)	Lean Concrete 17 MPa at 28 days	m3	47.45				
902	902 (1) a1	Reinforcing Steel (Deformed), Grade 40	kg	139,393.02				
902	902 (2) a2	Reinforcing Steel (Deformed), Grade 60	kg	117,966.18				

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 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1047	1047 (2)	Structural steel	kg	245,868.45				
903	903 (2)	Formworks and Falseworks	m2	14,856.99				
1047	1047 (15)	Hoist Crane Beam Assembly and Anchoring System	ls	1.00				
900	900 (8)	Preformed Joint Fillers	m3	1.20				
1033	1033 (3)	Catwalk for Equipment Maintenance	ls	1.00				
		SUB-TOTAL (D.1 - STRUCTURAL WORKS)						
	D.2	ARCHITECTURAL WORKS						
		Ceiling Works						
1027	1027 (5)	Rubbed Concrete finish	m2	7,287.79				
1811	1811 (1)	Triangular Aluminum Ceiling	m2	497.91				
1811	1811 (2)	Aluminum Ceiling Panel (Triangular Printed); 1200mm x 600mm	m2	3,244.10				
1811	1811 (3)	Aluminum Ceiling Panel (Triangular Printed); 600mm x 600mm	m2	354.31				
1811	1811 (4)	Spandrel Panel Ceiling	m2	56.20				
1811	1811 (5)	Metal Concealed Ceiling Panel	m2	234.26				
1811	1811 (6)	Curved Metal Panel	m2	1,565.04				
1811	1811 (7)	Aluminum Ceiling Panel with Perforation	m2	119.91				
1811	1811 (8)	Aluminum Ceiling Panel without Perforation	m2	101.50				
1811	1811 (9)	Aluminum Composite Panel Cladding	m2	21.33				
1030	1030 (1)	Concealed Grid Mineral Acoustical Board	m2	403.97				

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 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1030	1030 (2)	Moisture Resistant Gypsum Board	m2	276.64				
1811	1811 (10)	Solid Plate	m2	125.95				
1203	1203 (1)	Stainless Steel Ceiling Panel	m2	9.09				
		SUB-TOTAL (Ceiling Works)						
		Steel Doors and Frames						
1006	1006 (5)	Fire-rated Exit Steel Door Set	m2	181.63				
1006	1006 (1)	Hollow Steel Door Set	m2	57.68				
1006	1006 (7)	Steel Sliding Door Set	m2	10.50				
1006	1006 (8)	Watertight Doors – WS-3	m2	3.29				
1006	1006 (10)	Steel Folding Doors	m2	8.80				
1818	1818 (1)	Glass Doors	m2	30.59				
		Ironmongeries						
1004	1004 (2) g	Finishing Hardware Hinges	set	614.00				
1004	1004 (2) d	Finishing Hardware Door Closer	set	127.00				
1004	1004 (2) b	Finishing Hardware Latches	set	58.00				
1004	1004 (2) fl	Finishing Hardware Handles - Lever Handles on Plates	set	172.00				
1004	1004 (2) jl	Finishing Hardware Plates - Kick Plates	set	284.00				

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 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1004	1004 (2) c3	Finishing Hardware Bolts - Top Flush Bolt	set	31.00				
1004	1004 (2) a10	Finishing Hardware Lockset - Emergency Exit Push Bar Panic Device	set	18.00				
1004	1004 (2) a1	Finishing Hardware Lockset - O/S Key Operation	set	15.00				
1004	1004 (2) a5	Finishing Hardware Lockset - Electromagnetic Lock	set	17.00				
1004	1004 (2) a6	Finishing Hardware Lockset - Electromagnetic Lock with Emergency Release Lock	set	31.00				
1004	1004 (2) a7	Finishing Hardware Lockset – Electromagnetic Lock with Emergency Combination Detector	set	2.00				
1004	1004 (2) a8	Finishing Hardware Lockset - Turn and Release Lock with Indicator	set	4.00				
1004	1004 (2) a12	Finishing Hardware Lockset - Panic Exit Device/Latch	set	21.00				
1004	1004 (2) a11	Finishing Hardware Lockset Cylindrical Lock with Door Sensor	set	17.00				
1004	1004 (2) d2	Finishing Hardware Door Closer - Sliding Door Track Guide	set	10.00				
1004	1004 (2) f	Finishing Hardware Handles	set	22.00				
1004	1004 (2) g4	Finishing Hardware Hinges - Floor Hinges	set	10.00				
1004	1004 (2) g6	Finishing Hardware Hinges - SUS Bottom Rail Hinge w/ Lockset	set	6.00				
1004	1004 (2) g7	Finishing Hardware Hinges - SUS Top Rail Hinge	set	7.00				
1004	1004 (2) g8	Finishing Hardware Hinges - Top & Bottom Pivot	set	7.00				

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 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1004	1004 (2) j3	Finishing Hardware Plates - Combination Plates	set	62.00				
1004	1004 (2) a9	Finishing Hardware Lockset - Turn and Release Lock	set	5.00				
1004	1004 (2) j	Finishing Hardware Push Plate	set	62.00				
1004	1004 (2) 11	Finishing Hardware Seal - Neoprene Sponge	set	1.00				
		Platform Screen Doors "PSD" "BY OTHERS"						
		SUB-TOTAL (Steel Doors and Frames)						
		Aluminum Windows						
1817	1817	Stainless Steel Windows Frameless glass window	m2	50.62				
1012	1012 (9) a2	Laminated Glass - 12mm	m2	5.68				
		SUB-TOTAL (Aluminum Windows)						
		Metal Louvers						
1804	1804 (1)	Extruded Aluminum Vertical Louvers	m2	897.29				
1804	1804 (2)	Extruded Aluminum Horizontal Louvers with Insect Screen	m2	0.56				
1804	1804 (3)	Extract Air Aluminum Louver with Insect Screen	m2	7.94				
		SUB-TOTAL (Metal Louvers)						
		Rolling Up Doors						
1011	1011 (1) b	Fire Shutter Door	m2	133.68				

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 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1011	1011 (1) a	Roll -up Security Shutter Door	m2	79.96				
1011	1011 (1) c	Fire Shutter Door with Access Door	m2	35.22				
1809	1809	Flood Barrier Assembly - Manual	m2	8.20				
1809	1809 (1)	Flood Barrier Assembly - Automatic	m2	8.20				
		SUB-TOTAL (Rolling Up Doors)						
		Prepainted Metal Sheets						
1039	1039	Parapet Wall Aluminum Coping	m2	118.99				
1235	1235 (7)	Aluminum Rectangular Pipe	m	52.89				
		SUB-TOTAL (Prepainted Metal Sheets)						
		Waterproofing						
1016	1016 (2)	Bituminous Waterproofing	m2	2,015.40				
1016	1016 (1) b	Elastomeric Waterproofing	m2	796.67				
1016	1016 (1) a	Cementitious Waterproofing	m2	655.29				
		SUB-TOTAL (Waterproofing)						
		Masonry Works						
1046	1046 (4) a2	Solid Blocks Non-Load Bearing 150 mm	m2	3,855.11				
1046	1046 (1) a2	CHB Load Bearing (including Reinforcing Steel) 150mm	m2	4,367.09				
		SUB-TOTAL (Masonry Works)						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Wall Finishes						
1027	1027 (1)	Cement Plaster Finish	m2	25,012.88				
1018	1018 (3) a1	Granite Stone Honed Finish – 600x1200x30	m2	2,494.30				
1018	1018 (3) a2	Granite Stone Honed Finish – 1200x150x30	m2	543.96				
1018	1018 (3) b1	Granite Stone Polished – 1200x600x30	m2	609.06				
1018	1018 (3) b2	Granite Stone Polished – 1200x150x30	m2	182.50				
1018	1018 (3) b3	Granite Stone Polished – 1200x800x30	m2	1,048.06				
1018	1018 (5) b6	Glazed Ceramic Tile – 1200x600x10	m2	1,047.31				
1018	1018 (5) b3	Glazed Ceramic Tile – 1200x150x10	m2	264.08				
1018	1018 (5) b7	Glazed Ceramic Tile – 600x300x6	m2	225.31				
1018	1018 (5) b4	Glazed Ceramic Tile – 3000x1000x6	m2	425.18				
1018	1018 (5) b1	Glazed Ceramic Tile – 600x600x10	m2	457.69				
1031	1031 (1) c	Glass Wool Acoustic Panel	m2	2,438.47				
1814	1814 (1) b1	Wall Access Panel Standard Fire-rated - 500 x 875 mm	no	106.00				
1814	1814 (1) b2	Wall Access Panel Standard Fire-rated - 3000 x 3500 mm	no	1.00				
1814	1814 (1) b3	Wall Access Panel Standard Fire-rated - 4500 x 3500 mm	no	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1041	1041 (1) a3	Gypsum Board 118mm	m2	689.89				
1041	1041 (1) a4	Gypsum Board 140mm	m2	51.86				
1816	1816 (1) a3	Phenolic Partition – Shower Partition	m2	44.94				
1816	1816 (1) a1	Phenolic Partition – Toilet Partition	m2	140.65				
1816	1816 (1) a2	Phenolic Partition – Urinal Partition	m2	17.59				
		SUB-TOTAL (Wall Finishes)						
		Floor Finishes						
1018	1018 (3) c1	Granite Stone Flamed - 600x600x25	m2	5,196.01				
1018	1018 (3) c2	Granite Stone Flamed - 600x300x25	m2	344.00				
1018	1018 (3) b4	Granite Stone Polished - 1200x80x25	m2	30.00				
1018	1018 (3) b5	Granite Stone Polished - 1200x150x25	m2	39.00				
1018	1018 (3) b7	Granite Stone Polished - 1200x600x25	m2	3.00				
1018	1018 (3) b6	Granite Stone Polished - 600x150x25	m2	146.85				
1203	1203 (1)	Granite Flooring; to elevator	m2	10.00				
1018	1018 (8) a1	Stainless Steel Warning Hazard Tactile	m2	142.00				
1018	1018 (8) a2	Stainless Steel Directional Tactile	m2	196.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		SUB-TOTAL (Painting, Varnishing and Other Related Works)						
		Skylights						
1819	1819 (1) a	Pre-fabricated modular glass roof	m2	31.21				
		SUB-TOTAL (Skylights)						
		Glass and Glazing						
1012	1012 (9) a1	Fire Rated Laminated Glass – 2-6mm with Polyvinyl Butyral Film Interlayer and Security Film	m2	197.85				
1012	1012 (9) a2	Laminated glass - 12mm	m2	286.73				
1012	1012 (9) a3	Laminated Glass – 30 mm, 2-hr Fire Rated	m2	25.84				
1012	1012 (10) a1	Toughened Glass - 12mm with Security Film	m2	729.94				
1012	1012 (5) e	Tempered Back Painted Glass - 12mm	m2	212.48				
		SUB-TOTAL (Glass and Glazing)						
		Metal Structures						
1047	1047 (12)	Hot-dip Galvanized Steel Ladder	lm	11.90				
1805	1805 (1) a1	Stainless Steel Floor Grating	m2	73.37				
1047	1047 (14)	Platform H-Beam Light Box	kg	8,960.34				
		Trenches						
1805	1805 (1) a2	Stainless Steel Floor Grating - High Voltage Trench	m2	17.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1805	1805 (1) a3	Stainless Steel Floor Grating - Low Voltage Trench	m2	22.00				
		SUB-TOTAL (Metal Structures)						
		Fence and Railings						
1051	1051 (5) a1	Stainless Steel Railing	lm	161.50				
1051	1051 (5) a2	Stainless Steel Upper and Lower Railing - Wall Mounted	lm	273.94				
1051	1051 (5) a3	Stainless Steel Handrail - 950 mm height	lm	9.42				
1051	1051 (5) a4	Stainless Railing with Swing Door	lm	2.38				
1051	1051 (5) a5	Stainless Steel Guardrail	lm	37.94				
1051	1051 (5) b1	Stainless Steel Handrail with Glass Railing - 1400mm height	lm	54.61				
1051	1051 (5) b2	Stainless Steel Handrail with Glass Railing and Door	lm	9.49				
1051	1051 (5) b3	Stainless Steel Handrail with Glass Railing - 1200mm height	lm	104.21				
1051	1051 (6) a1	Hot-dip Galvanized Railing	lm	232.31				
1051	1051 (6) a2	Hot-dip Galvanized Handrail with Double Action Foldable Door	lm	10.56				
1051	1051 (6) a3	Hot-Dip Galvanized Handrail – Wall Mounted	lm	124.95				
		SUB-TOTAL (Fence and Railings)						
		Baseboards, thresholds & Nosings Finish						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1018	1018 (3) b9	Granite Stone Polished - 30mm thk	lm	1,123.42				
1018	1018 (3) b10	Granite Stone Polished - 20mm thk	lm	135.73				
1807	1807 (1)	Stainless Steel Skirting; 300mm	lm	27.57				
1018	1018 (5) b8	Glazed Ceramic Tile - 300x100x10	lm	80.19				
1018	1018 (5) b5	Glazed Ceramic Tile - 600x100x10	lm	9.71				
1020	1020 (2)	Vinyl Tile Skirting	lm	486.71				
1032	1032 (1) a4	Painting Works (Masonry/Concrete) - Acrylic Emulsion H=100mm	lm	41.49				
1801	1801 (2)	Epoxy Coating	lm	217.63				
		SUB-TOTAL (Baseboards, thresholds & Nosings Finish)						
		Signages						
1813	1813 (1)	Identification Signs	ls	1.00				
1813	1813 (2)	Information Signs	ls	1.00				
1813	1813 (3)	Wayfinding / Directional Signs	ls	1.00				
1813	1813 (4)	Explanatory Signs	ls	1.00				
1813	1813 (7)	Evacuation Direction Indicators	ls	1.00				
1813	1813 (8)	Room Identification Signages	ls	1.00				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4B
 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		SUB-TOTAL (Signages)						
		SUB-TOTAL (D.2 - ARCHITECTURAL WORKS)						
	D.4	MISCELLANEOUS						
1812	1812 (1)	System Furniture	ls	1.00				
1812	1812 (2)	Office Furnitures	ls	1.00				
1812	1812 (4)	Built-ins	ls	1.00				
1822	1822 (1)	Quartz Countertop	m2	14.70				
1822	1822 (2)	Quartz Ledge	m2	21.38				
1821	1821	Stainless Steel Countertop	m2	14.01				
		Plumbing Fixtures						
1002	1002 (14) a1	Hand Rinse Basin, wall hung Sensor type (Lavatory faucet included under this pay item)	set	8.00				
1002	1002 (10) a2	Urinal with flush valve complete Sensor Type	set	8.00				
1002	1002 (13)	Cleaner's sink complete	set	6.00				
1002	1002 (15) a1	Wash Hand Basin (Lavatory Countertop) above counter, complete sensor type (Lavatory faucet included under this pay item)	set	18.00				
1002	1002 (9) a3	Water closet elongated complete, Automatic flush valve (Water closet Flush Panel included under this pay item)	set	22.00				
		Stainless Steel Grab Bar						
1002	1002 (18) a1	Stainless Steel Grab Bar, 40mm dia - Vertical	lm	5.84				
1002	1002 (18) a2	Stainless Steel Grab Bar, 40mm dia - Horizontal	lm	3.60				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 BILL NO.4B
 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1002	1002 (18) a3	Stainless Steel Grab Bar, 40mm dia - Dropdown	lm	6.01				
		Toilet Accessories						
1002	1002 (28) b2	Toilet Paper Dispenser	set	3.00				
1002	1002 (28) c1	Soap Holder	set	6.00				
1002	1002 (28) c2	Soap Dispenser	set	22.00				
1002	1002 (28) d1	Hand Dryer	set	10.00				
1002	1002 (28) e1	Trash Bins	set	12.00				
1002	1002 (28) e2	Sanitary Disposal Bins	set	4.00				
1002	1002 (28) f1	Robe Hook	set	31.00				
1002	1002 (28) f2	Towel Rail	set	6.00				
1002	1002 (28) a1	Shower Head/Shower Valve	set	6.00				
1002	1002 (28) a3	Cleaner's Tap	set	6.00				
1002	1002 (28) a2	Lever-Operated Mixer Tap	set	20.00				
1002	1002 (20)	Framed mirror with T5 LED Backlight	m2	20.86				
1002	1002 (28) b1	Toilet Paper Holder	set	20.00				
1002	1002 (28) h1	Ostomate Toilet	set	2.00				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.4B
 STATION ARCHTECTURE WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		GAD Toilet Accessories						
1002	1002 (28) g1	Folding Bed	set	2.00				
1002	1002 (28) g2	Baby Chair	set	4.00				
1002	1002 (28) g3	Diaper Change Bed	set	3.00				
1002	1002 (28) e3	Sanitary Dispenser	set	3.00				
1002	1002 (28) h2	Alarm Reset Button	set	2.00				
1002	1002 (28) h3	Alarm Pull Chord (2 Bangles)	set	2.00				
1810	1810	Smoke Curtains Assembly	m2	56.30				
		Elevator Handrails						
1203	1203 (1)	Stainless Steel Railing	lm	10.58				
1035	1035 (2)	Gallery Wall Stainless Steel Structural Module	m2	176.55				
		SUB-TOTAL (D.4 - MISCELLANEOUS)						
		GRAND TOTAL-STATION ARCHITECTURAL WORKS (ORTIGAS SOUTH)						

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5
 STATIONS E & M WORKS

Bill No.	DESCRIPTION	AMOUNT	
		LOCAL (PHP)	FOREIGN ()
	CP104		
Bill No. 5	STATIONS E & M WORKS		
Bill No. 5A	ORTIGAS NORTH STATION		
Bill No. 5B	ORTIGAS SOUTH STATION		
	TOTAL STATIONS E & M WORKS		

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Allow for builder's work in connection with mechanical and electrical services installations (i.e. plinths, curbs, concrete/steel beam support, lift separator beam and the like).						
		FIREPROOFING AND SLAB OVER AT TAS, SCV, IT CABLE DUCT AND THE LIKE						
		Expanded galvanized steel mesh anchored to wall complete with approved finishes and all necessary fixing accessories; all in accordance to drawings and to Architect's approval.						
		SUB-TOTAL (BUILDER'S WORKS)						
		AIR-CONDITIONING AND MECHANICAL VENTILATION						
		Condensate drain system						
		Allowance for Galvanized steel pipes and fittings including approved insulation, and all other necessary accessories to complete the system						
	1209(1)	from FCU/AHU to nearest plumbing stub out	item	1.00				
		REFRIGERANT PIPING SYSTEM						
		Copper (Cu) pipes and fittings, type L, hard drawn, including freon charging , jointing in accordance with designer's specification						
	1213(3)	6.35mm diameter	lm	47.00				
	1213(3)	9.53mm diameter	lm	104.00				

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1213(3)	12.70mm diameter	lm	403.00				
	1213(3)	15.88mm diameter	lm	61.00				
	1213(3)	19.05mm diameter	lm	576.00				
	1213(3)	22.23mm diameter	lm	16.00				
	1213(3)	28.58mm diameter	lm	365.00				
	1213(3)	34.93mm diameter	lm	267.00				
	1213(3)	41.28mm diameter	lm	293.00				
		Thermal Insulation; Elastomeric rubber, Class O;						
		15mm thick						
	1213(5)	6.35mm diameter	lm	47.00				
	1213(5)	9.53mm diameter	lm	104.00				
	1213(5)	12.70mm diameter	lm	403.00				
	1213(5)	15.88mm diameter	lm	61.00				
	1213(5)	19.05mm diameter	lm	576.00				
	1213(5)	22.23mm diameter	lm	16.00				
		20mm thick						
	1213(5)	28.58mm diameter	lm	365.00				
	1213(5)	34.93mm diameter	lm	267.00				
	1213(5)	41.28mm diameter	lm	293.00				
		Condenser Water System						
		Galvanized steel pipes and fittings; ERW; ASTM A-53, heavy grade; jointing in accordance with the designer's specification						
	1209(1)	65mm diameter	lm	12.00				
	1209(1.1)	extra over for end cap/flanged	pc	1.00				
	1209(1)	80mm diameter	lm	20.00				

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Butterfly valve						
	1210(1)	250mm diameter	pc	12.00				
	1210(1)	300mm diameter	pc	1.00				
		Drain Valve						
	1210(1)	dimension as required	pc	5.00				
		Flexible connector						
	1210(1)	250mm diameter	pc	10.00				
		Float valve						
	1210(1)	50mm diameter	pc	2.00				
		Flow switch (FS)						
	1210(1)	mounting to 250mm diameter galvanized steel pipes	pc	2.00				
		Gate valves						
	1210(1)	50mm diameter	pc	2.00				
		Isolation Valve						
	1210(1)	250mm diameter	pc	2.00				
		Motorized butterfly valve						
	1210(1)	250mm diameter	pc	6.00				
		Non-Return Valve						
	1210(1)	250mm diameter	pc	3.00				
		Pressure gauges (PG); complete with cock						
	1210(1)	mounting to 250mm diameter Galvanized steel pipes	pc	10.00				

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Temperature Gauge (TG)						
	1210(1)	mounting to 250mm diameter Galvanized steel pipes	pc	4.00				
		Test Plug (TP)						
	1210(1)	mounting to 250mm diameter Galvanized steel pipes	pc	10.00				
		Wye Strainer						
	1210(1)	250mm diameter	pc	4.00				
	1210(1)	300mm diameter	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps, complete with driving motor; all necessary accessories and connections; electrical/control wirings, conduit and controls; complete as in the equipment schedule and as described						
	1218(1)	ON-MZ-CDWP-01/02/03; condenser water pump; end-suction type, 3871.17 LPM at 175 kPa; 21kW motor, 380V/3ph/60Hz (2W+1S), ref STN-MEP-VAC-ON-5101	set	3.00				
		Chemical pot feeder; including all necessary accessories and connections, electrical/control wiring, conduits and controls; complete as in the equipment schedule and as described						

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1210(1)	capacity as required	pc	1.00				
		Cooling tower, complete with driving motor; all necessary accessories and connections; electrical/control wirings, conduit and controls; complete as in the equipment schedule and as described						
	1219(1)	ON-GL-CT-01/02; 3871.2 LPM; counter flow type with vertical discharge, axial type fan ; with anti vibration & chemical treatment; belt and pulley driven, 1350kW heat rejection; 19kW motor rating; 380V/3ph/60Hz, ref STN-MEP-VAC-ON-5101	set	2.00				
		Allow for the following						
		Make-up Water tank including all necessary pipeworks and ancillaries and as shown in schematic diagram.	item	1.00				
		Chilled Water System						
		Galvanized steel pipes and fittings; ERW; ASTM A-53, heavy grade; jointing in accordance with the designer's specification						
		To walls and chased						
	1209(1)	25mm diameter	lm	216.00				
	1209(1)	32mm diameter	lm	142.00				
	1209(1)	40mm diameter	lm	385.00				
	1209(1)	50mm diameter	lm	188.00				
	1209(1)	65mm diameter	lm	112.00				
	1209(1.1)	extra over for elbow	pc	6.00				
	1209(1.1)	extra over for tee	pc	12.00				

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1209(1.1)	extra over for tee reducer	pc	2.00				
	1209(1.1)	80mm diameter	lm	308.00				
	1209(1.1)	extra over for elbow	pc	16.00				
	1209(1.1)	extra over for tee reducer	pc	2.00				
	1209(1.1)	extra over for reducer	pc	2.00				
	1209(1)	100mm diameter	lm	33.00				
	1209(1.1)	extra over for elbow	pc	9.00				
	1209(1.1)	extra over for tee reducer	pc	4.00				
	1209(1.1)	extra over for reducer	pc	2.00				
	1209(1)	125mm diameter	lm	110.00				
	1209(1.1)	extra over for elbow	pc	18.00				
	1209(1.1)	extra over for tee reducer	pc	4.00				
	1209(1.1)	extra over for tee	pc	6.00				
	1209(1.1)	extra over for reducer	pc	8.00				
	1209(1.1)	extra over for end cap/flanged	pc	6.00				
	1209(1)	150mm diameter	lm	298.00				
	1209(1.1)	extra over for elbow	pc	8.00				
	1209(1.1)	extra over for reducer	pc	2.00				
	1209(1)	200mm diameter	lm	575.00				
	1209(1.1)	extra over for elbow	pc	4.00				
	1209(1.1)	extra over for tee	pc	4.00				
	1209(1.1)	extra over for tee reducer	pc	2.00				
	1209(1.1)	extra over for reducer	pc	2.00				
	1209(1.1)	extra over for end cap/flanged	pc	8.00				
	1209(1)	250mm diameter	lm	219.00				
	1209(1.1)	extra over for elbow	pc	24.00				
	1209(1.1)	extra over for tee	pc	2.00				
	1209(1.1)	extra over for tee reducer	pc	12.00				
	1209(1.1)	extra over for reducer	pc	12.00				
	1209(1.1)	extra over for end cap/flanged	pc	10.00				

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Rubber Insulation, class "0"						
		32mm thick						
	1212(2)	25mm diameter	lm	216.00				
	1212(2)	32mm diameter	lm	142.00				
	1212(2)	40mm diameter	lm	385.00				
	1212(2)	50mm diameter	lm	188.00				
		40mm thick						
	1212(2)	65mm diameter	lm	112.00				
	1212(2)	80mm diameter	lm	308.00				
	1212(2)	100mm diameter	lm	33.00				
	1212(2)	125mm diameter	lm	110.00				
	1212(2)	150mm diameter	lm	298.00				
	1212(2)	200mm diameter	lm	575.00				
		50mm thick						
	1212(2)	250mm diameter	lm	219.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Automatic Air Vent (AAV)						
	1210(1)	mounting to 80mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 125mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 200mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 300mm diameter galvanized steel pipes	pc	4.00				
		Balancing Valve						
	1210(1)	25mm diameter	pc	2.00				
	1210(1)	65mm diameter	pc	1.00				
	1210(1)	100mm diameter	pc	6.00				

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1210(1)	125mm diameter	pc	3.00				
	1210(1)	200mm diameter	pc	2.00				
	1210(1)	250mm diameter	pc	2.00				
		BTU meter						
	1210(1)	mounting to 32mm diameter galvanized steel pipes	pc	1.00				
		Butterfly valve						
	1210(1)	40mm diameter	pc	2.00				
	1210(1)	100mm diameter	pc	14.00				
	1210(1)	125mm diameter	pc	13.00				
	1210(1)	200mm diameter	pc	7.00				
	1210(1)	250mm diameter	pc	12.00				
		Drain Valve						
	1210(1)	dimension as required	pc	9.00				
		Flexible connector						
	1210(1)	40mm diameter	pc	2.00				
	1210(1)	50mm diameter	pc	2.00				
	1210(1)	80mm diameter	pc	8.00				
	1210(1)	200mm diameter	pc	8.00				
	1210(1)	250mm diameter	pc	10.00				
		Flow Switch (FS)						
	1210(1)	mounting to 100mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 200mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 250mm diameter galvanized steel pipes	pc	2.00				
		Motorized butterfly valve						

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 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1210(1)	200mm diameter	pc	1.00				
	1210(1)	250mm diameter	pc	2.00				
		Non-Return Valve (NRV)						
	1210(1)	100mm diameter	pc	2.00				
	1210(1)	200mm diameter	pc	2.00				
	1210(1)	250mm diameter	pc	3.00				
		Pressure gauges (PG); complete with cock						
	1210(1)	mounting to 80mm diameter galvanized steel pipes	pc	8.00				
	1210(1)	mounting to 250mm diameter galvanized steel pipes	pc	10.00				
		Temperature Gauge (TG)						
	1210(1)	mounting to 100mm diameter galvanized steel pipes	pc	4.00				
	1210(1)	mounting to 250mm diameter galvanized steel pipes	pc	4.00				
		Test Plug (TP)						
	1210(1)	mounting to 100mm diameter galvanized steel pipes	pc	10.00				
	1210(1)	mounting to 200mm diameter galvanized steel pipes	pc	4.00				
		Wye Strainer						
	1210(1)	100mm diameter	pc	6.00				
	1210(1)	250mm diameter	pc	3.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
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 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Pumps, complete with driving motor; all necessary accessories and connections; electrical/control wirings, conduit and controls; complete as in the equipment schedule and as described						
	1217(1)	ON-MZ-CHWP-01-03; WCC Chilled Water Pump; end suction type; 3138.79 LPM at 350 kPA PD; 30kW motor rating complete with VFD; 380V/3ph/60Hz; ref STN-MEP-VAC-ON-5101	set	3.00				
	1217(1)	ON-CL-CHWP-01-02; ACC Chilled water pump; end suction type; 247.034 LPM at 275 kPA PD; 1.5kW motor rating; 380V/3ph/60Hz; ref STN-MEP-VAC-ON-5101	set	2.00				
		Chiller, complete with driving motor; all necessary accessories and connections; electrical/control wirings, conduit and controls; complete as in the equipment schedule and as described						
		Water Cooled Chiller,						
	1221(1)	ON-MZ-WCC-01/02; Water-cooled chiller; 1080kW cooling capacity; 3139 LPM; screw type with VSD drive; 200 kW motor rating; including anti vibration, and leak detection device, 1kw/RT efficiency; 380V/3ph/60Hz; ref STN-MEP-VAC-ON-5101	set	2.00				
		Air Cooled Chiller						
	1220(1)	ON-GL-ACC-01/02; Air-cooled chiller; 92kW cooling capacity; 267.38 LPM; scroll type; 34.01.4kW motor rating with leak detection device; 1.3kw/RT eff.; 380V/3ph/60Hz, ref STN-MEP-VAC-ON- 5101	set	2.00				

**DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
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 STATION E&M WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Expansion tanks; including all necessary pipeworks, insulation, cladding, valves, painting, accessories and connections; complete as in the equipment schedule and as described						
	1210(5)	ON-MZ-EXP-01, 35/7 C temp.; 0.5m3 expansion volume; 250kPa fill pressure, 1.5kW motor, 380V/3ph/60Hz; ref STN-MEP-VAC-ON-5104	set	1.00				
	1210(5)	ON-CL-EXP-01, 35/7 C temp.; 0.1m3 expansion volume; 250kPa fill pressure, 1.1kW motor, 380V/3ph/60Hz; ref STN-MEP-VAC-ON-5104	set	1.00				
		Air separator; including all necessary accessories and connections, complete as in the equipment schedule and as described						
	1210(4)	ON-MZ-AS-01; 3139 lpm capacity; PN16; 7deg C, ref STN-MEP-VAC-ON-5104	pc	1.00				
	1210(4)	ON-CL-AS-01; 247 lpm capacity; PN16; 7deg C, ref STN-MEP-VAC-ON-5104	pc	1.00				
		Chemical pot feeder; including all necessary accessories and connections, electrical/control wiring, conduits and controls; complete as in the equipment schedule and as described						
	1210(5)	capacity as required	set	1.00				
		Mechanical Ventilation System						
		Galvanized steel sheet rectangular ducts and fittings; conforming to SMACNA HVAC Duct Construction Standards						

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 Bill NO.5A
 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(2)	Gauge 26	m2	549.00				
	1211(2)	Gauge 24	m2	2,845.00				
	1211(2)	Gauge 22	m2	2,505.00				
	1211(2)	Gauge 20	m2	152.00				
		Galvanized steel sheet ductwork ancillaries including flexible connections and flanges; conforming to the MPF Technical Specifications specified in 1211 Ductworks and Accessories						
		Exhaust Air Louver with plenum						
	1211(6)	ON-ST-EAL-01, 3000X3300	pc	1.00				
	1211(6)	ON-ST-EAL-02, 3000X3300	pc	1.00				
		Fresh Air Louver						
	1211(6)	ON-ST-FAL-01, 4000X3000	pc	1.00				
	1211(6)	ON-ST-FAL-02, 4000X3000	pc	1.00				
	1211(6)	ON-ST-FAL-03, 3000X1000	pc	1.00				
		Exhaust Air Grille						
	1211(6)	EAG-1A/1E; 400mm x 300mm	pc	5.00				
	1211(6)	EAG-02; 200mm x 200mm	pc	1.00				
	1211(6)	EAG-3A/3Z; 400mm x 200mm	pc	26.00				
	1211(6)	EAG-4A/4E; 400mm x 300mm	pc	5.00				
	1211(6)	EAG-05; 200mm x 100mm	pc	1.00				
	1211(6)	EAG-6A/6G; 150mm x 150mm	pc	7.00				
	1211(6)	EAG-7A/7I; 150mm x 150mm	pc	9.00				
	1211(6)	EAG-8A/8J; 400mm x 400mm	pc	10.00				
	1211(6)	EAG-9A/9C; 400mm x 300mm	pc	3.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Volume damper						
	1211(5)	150mm x 150mm	pc	14.00				
	1211(5)	200mm x 150mm	pc	1.00				
	1211(5)	200mm x 200mm	pc	9.00				
	1211(5)	300mm x 300mm	pc	20.00				
	1211(5)	400mm x 200mm	pc	3.00				
	1211(5)	400mm x 300mm	pc	11.00				
	1211(5)	400mm x 400mm	pc	8.00				
	1211(5)	650mm x 350mm	pc	1.00				
	1211(5)	700mm x 200mm	pc	1.00				
		Motorized smoke and fire damper						
	1211(5)	MSFD-1; 1000mm x 300mm	pc	1.00				
	1211(5)	MSFD-02 to MSFD-15; 300mm x 300mm	pc	14.00				
	1211(5)	MSFD-52; 750mm x 700mm	pc	1.00				
	1211(5)	MSFD-57; 1000mm x 700mm	pc	1.00				
	1211(5)	MSFD-58; 1000mm x 700mm	pc	1.00				
	1211(5)	MSFD-59; 900mm x 600mm	pc	1.00				
	1211(5)	MSFD-60; 650mm x 300mm	pc	1.00				
	1211(5)	MSFD-61; 650mm x 250mm	pc	1.00				
	1211(5)	MSFD-63; 900mm x 600mm	pc	1.00				
	1211(5)	MSFD-64; 900mm x 600mm	pc	1.00				
	1211(5)	MSFD-65; 900mm x 600mm	pc	1.00				
	1211(5)	MSFD-66; 650mm x 250mm	pc	1.00				
	1211(5)	MSFD-67; 650mm x 250mm	pc	1.00				
	1211(5)	MSFD-69; 350mm x 350mm	pc	1.00				
	1211(5)	MSFD-70/74; 350mm x 350mm	pc	5.00				
	1211(5)	MSFD-75/76; 1000mm x 700mm	pc	2.00				
	1211(5)	MSFD-77; 900mm x 700mm	pc	1.00				
	1211(5)	MSFD-78/79; 1000mm x 700mm	pc	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(5)	MSFD-80; 900mm x 600mm	pc	1.00				
	1211(5)	MSFD-81/82; 1000mm x 400mm	pc	2.00				
	1211(5)	MSFD-84/85; 500mm x 500mm	pc	2.00				
	1211(5)	MSFD-86; 700mm x 200mm	pc	2.00				
	1211(5)	MSFD-87/89; 500mm x500mm	pc	3.00				
		Fire Damper						
	1211(5)	200mm x 150mm	pc	3.00				
	1211(5)	300mm x 200mm	pc	3.00				
	1211(5)	300mm x 300mm	pc	3.00				
	1211(5)	350mm x 350mm	pc	2.00				
	1211(5)	400mm x 150mm	pc	1.00				
	1211(5)	400mm x 200mm	pc	1.00				
	1211(5)	400mm x 250mm	pc	1.00				
	1211(5)	400mm x 300mm	pc	2.00				
	1211(5)	400mm x 400mm	pc	4.00				
	1211(5)	500mm x 450mm	pc	3.00				
	1211(5)	1250mm x 100mm	pc	3.00				
		Non-Return Damper						
	1211(5)	300mm x 300mm	pc	3.00				
	1211(5)	400mm x 250mm	pc	1.00				
	1211(5)	400mm x 300mm	pc	1.00				
	1211(5)	400mm x 400mm	pc	1.00				
	1211(5)	600mm x 400mm	pc	1.00				
	1211(5)	1000mm x 600mm	pc	1.00				
		Pressure relief damper complete with fire damper						
	1211(5)	PRD - c/w FD - (AFC Room)	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(5)	PRD - c/w FD - (Electrical Room)	pc	1.00				
	1211(5)	PRD - c/w FD - (Generator Room)	pc	1.00				
	1211(5)	PRD - c/w FD - (MZ - Fire Exit Staircase)	pc	1.00				
	1211(5)	PRD - c/w FD - (SER Room)	pc	1.00				
	1211(5)	PRD - c/w FD - (SSS Substation)	pc	1.00				
	1211(5)	PRD - c/w FD - (SUR Room)	pc	1.00				
	1211(5)	PRD - c/w FD - (Telco Room)	pc	1.00				
	1211(5)	PRD - c/w FD - (TER Room)	pc	1.00				
	1211(5)	PRD - c/w FD - (TSS -Traction Substation)	pc	1.00				
	1211(5)	PRD - c/w FD - (TUR Room)	pc	1.00				
		Plenum box						
	1211(6)	5800mm x 2000mm x 1200mm	pc	2.00				
		Sound Attenuator						
	1211(6)	SA-01; 4200 cmh; 600mm x 500mm x 900mm; 7Pa; downstream	pc	1.00				
	1211(6)	SA-02; 4200 cmh; 600mm x 500mm x 900mm; 7Pa; upstream	pc	1.00				
	1211(6)	SA-03; 6800 cmh; 600mm x 500mm x 1500mm; 21Pa; downstream	pc	1.00				
	1211(6)	SA-04; 6800 cmh; 600mm x 500mm x 1500mm; 21Pa; upstream	pc	1.00				
	1211(6)	SA-05; 3180 cmh; 600mm x 500mm x 1500mm; 5Pa; downstream	pc	1.00				
	1211(6)	SA-06; 3180 cmh; 600mm x 500mm x 1500mm; 5Pa; upstream	pc	1.00				
	1211(6)	SA-07; 2030 cmh; 400mm x 300mm x 900mm; 10Pa; downstream	pc	1.00				
	1211(6)	SA-08; 2030 cmh; 400mm x 300mm x 900mm; 10Pa; upstream	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	SA-09; 3866 cmh; 600mm x 500mm x 900mm; 7Pa; downstream	pc	1.00				
	1211(6)	SA-10; 3866 cmh; 600mm x 500mm x 900mm; 7Pa; upstream	pc	1.00				
	1211(6)	SA-11; 18720 cmh; 750mm x 700mm x 2100mm; 57Pa; downstream	pc	1.00				
	1211(6)	SA-12; 18720 cmh; 750mm x 700mm x 2100mm; 57Pa; upstream	pc	1.00				
	1211(6)	SA-25; 4200 cmh; 400mm x 300mm x 1500mm; 49Pa; downstream	pc	1.00				
	1211(6)	SA-26; 4200 cmh; 400mm x 300mm x 1500mm; 49Pa; downstream	pc	1.00				
	1211(6)	SA-27; 6800 cmh; 600mm x 500mm x 6000mm; 121Pa; downstream	pc	1.00				
	1211(6)	SA-28; 6800 cmh; 600mm x 500mm x 6000mm; 121Pa; upstream	pc	1.00				
	1211(6)	SA-29; 18450 cmh; 1000mm x 700mm x 2100mm; 37Pa; downstream	pc	1.00				
	1211(6)	SA-30; 18450 cmh; 1000mm x 700mm x 2100mm; 37Pa; upstream	pc	1.00				
	1211(6)	SA-31; 20510 cmh; 1000mm x 700mm x 2100mm; 37Pa; downstream	pc	1.00				
	1211(6)	SA-32; 20510 cmh; 1000mm x 700mm x 2100mm; 37Pa; downstream	pc	1.00				
	1211(6)	SA-33; 21690 cmh; 1000mm x 700mm x 2100mm; 47Pa; upstream	pc	1.00				
	1211(6)	SA-34; 21690 cmh; 1000mm x 700mm x 2100mm; 47Pa; upstream	pc	1.00				
	1211(6)	SA-35; 21690 cmh; 1000mm x 700mm x 2100mm; 47Pa; upstream	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	SA-36; 21690 cmh; 1000mm x 700mm x 2100mm; 47Pa; downstream	pc	1.00				
	1211(6)	SA-37; 3850 cmh; 500mm x 500mm x 900mm; 63Pa; upstream	pc	1.00				
	1211(6)	SA-38; 3850 cmh; 500mm x 500mm x 900mm; 63Pa; downstream	pc	1.00				
	1211(6)	SA-42; 18720 cmh; 750mm x 700mm x 2100mm; 57Pa; downstream	pc	1.00				
	1211(6)	SA-43; 18720 cmh; 750mm x 700mm x 2100mm; 57Pa; upstream	pc	1.00				
	1211(6)	SA-44; 18720 cmh; 750mm x 700mm x 2100mm; 57Pa downstream	pc	1.00				
	1211(6)	SA-45; 18720 cmh; 750mm x 700mm x 2100mm; 57Pa upstream	pc	1.00				
	1211(6)	SA-58; 18720 cmh; 750mm x 700mm x 2100mm; 57Pa; downstream	pc	1.00				
	1211(6)	SA-59; 18720 cmh; 750mm x 700mm x 2100mm; 57Pa; upstream	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Ventilation fans; including all accessories, controls, wirings, conduits, vibration isolator, backdraft damper and all other connections needed to complete the system						
	1216(3)	ON-CL-EAF-1A/1B; 1,490CMH; 350 Pa; centrifugal type; 0.37kW; 220V/1ph/60Hz with VFD, fire rated @ 250°C/2hrs	set	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1216(3)	ON-CL-EAF-02; 4,200CMH; 300 Pa; centrifugal type; 1.1kW; 380V/1ph/60Hz	set	1.00				
	1216(3)	ON-CL-EAF-03; 6,800CMH; 220 Pa; centrifugal type; 1.1kW; 220V/1ph/60Hz	set	1.00				
	1216(2)	ON-CL-EAF-04; 3,180CMH; 280 Pa; axial type; 0.75kW; 220V/1ph/60Hz	set	1.00				
	1216(3)	ON-CL-EAF-05; 1,250CMH; 660 Pa; centrifugal type; 0.55kW; 220V/1ph/60Hz	set	1.00				
	1216(2)	ON-CL-EAF-06; 2,030CMH; 270 Pa; axial type; 0.37kW; 220V/1ph/60Hz with Spark/Explosion proof & hydrogen sensor	set	1.00				
	1216(2)	ON-CL-EAF-07; 1,115CMH; 350 Pa; axial type; 0.37kW; 220V/1ph/60Hz with Spark/Explosion proof & hydrogen sensor	set	1.00				
	1216(2)	ON-CL-EAF-08; 3,866CMH;350 Pa; axial type; 1.1kW; 380/3ph/60Hz with Spark/Explosion proof & hydrogen sensor	set	1.00				
	1216(3)	ON-CL-FAF-1A/1B; 1,490CMH; 630 Pa; centrifugal type; 0.55kW; 220V/1ph/60Hz with VFD	set	2.00				
	1216(3)	ON-CL-FAF-02; 4,200CMH; 610 Pa; centrifugal type; 1.1kW; 380V/3ph/60Hz	set	1.00				
	1216(3)	ON-CL-FAF-03; 6,800CMH; 220 Pa; centrifugal type; 11kW; 220V/1ph/60Hz	set	1.00				
	1216(3)	ON-MZ-EAF-1A/1B; 18,450CMH; 1050 Pa; centrifugal type; 9.3kW; 380V/3ph/60Hz with VFD	set	2.00				
	1216(3)	ON-MZ-EAF-2A/2B; 21,690CMH; 770 Pa; centrifugal type; 7.5kW; 380V/3ph/60Hz with VFD and vibrator insulator	set	2.00				
	1216(3)	ON-MZ-EAF-03; 2,060CMH; 1,150 Pa; centrifugal type; 1.1kW; 380V/3ph/60Hz with VFD and vibrator insulator	set	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1216(2)	ON-MZ-EAF-4A/4B; 6,000CMH; 300 Pa; axial type; 1.5kW; 380V/3ph/60Hz with VFD	set	2.00				
	1216(3)	ON-MZ-FAF-1A/1B; 20,510CMH; 1,100 Pa; centrifugal type; 9.3kW; 380V/3ph/60Hz with VFD	set	2.00				
	1216(3)	ON-MZ-FAF-2A/2B; 21,690CMH; 770 Pa; centrifugal type; 7.5kW; 380V/3ph/60Hz with VFD and vibrator insulator	set	2.00				
	1216(3)	ON-MZ-FAF-3A/3B; 3,850CMH; 1,150 Pa; centrifugal type; 2.2kW; 380V/3ph/60Hz with VFD and vibrator insulator	set	2.00				
	1216(3)	ON-MZ-FAF-04; 2,060CMH; 1,150 Pa; centrifugal type; 1.1kW; 380V/3ph/60Hz with VFD and vibrator insulator	set	1.00				
		Air Conditioning System						
		Galvanized steel sheet rectangular ducts and fittings; conforming to SMACNA HVAC Duct Construction Standards						
	1211(2)	Gauge 26	m2	351.00				
	1211(2)	Gauge 24	m2	3,057.00				
	1211(2)	Gauge 22	m2	2,161.00				
	1211(2)	Gauge 20	m2	108.00				
		Thermal Insulation; Rockwool; 64kg/cu.m; 0.035W/mK						
	1212(1)	fixing externally to rectangular ducts	m2	5,677.00				
		Galvanized steel sheet ductwork ancillaries including flexible connections and flanges; conforming to the MPF Technical Specifications specified in 1211 Ductworks and Accessories						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Volume damper						
	1211(5)	250mm diameter	pc	408.00				
	1211(5)	150mm x 150mm	pc	12.00				
	1211(5)	200mm x 150mm	pc	12.00				
	1211(5)	250mm x 100mm	pc	10.00				
	1211(5)	400mm x 400mm	pc	16.00				
	1211(5)	600mm x 150mm	pc	168.00				
	1211(5)	750mm x 200mm	pc	52.00				
		ACP						
	1211(5)	1000mm X 600mm	pc	4.00				
	1211(5)	750mm X 400mm	pc	1.00				
	1211(5)	750mm X 500mm	pc	1.00				
	1211(5)	750mm X 550mm	pc	1.00				
	1211(5)	600mm X 600mm	pc	1.00				
	1211(5)	500mm X 500mm	pc	4.00				
		Fire Damper						
	1211(5)	200mm x 150mm	pc	23.00				
	1211(5)	300mm x 300mm	pc	1.00				
	1211(5)	1250mm x 1000mm	pc	11.00				
		Linear Diffuser						
	1211(6)	ref. 1-136; 1200mm x 238mm	pc	138.00				
		Supply Air Grille						
	1211(6)	750mm x 200mm	pc	26.00				
	1211(6)	ref. SAG 1-81; 600mm x 150mm	pc	81.00				
	1211(6)	ref. SAG 82-169; 600mm x 150mm	pc	87.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Return Air Grille						
	1211(6)	750mm x 200mm	pc	26.00				
		Fresh Air Grille (FAG)						
	1211(6)	ref. FAG-05; 200mm x 150mm	pc	1.00				
	1211(6)	ref. FAG-6A-6B; 150mm x 150mm	pc	2.00				
	1211(6)	ref. FAG-7A-71; 200mm x 200mm	pc	9.00				
	1211(6)	ref. FAG-8A-8D; 150mm x 150mm	pc	4.00				
		Flexible duct						
	1211(4)	250mm diameter x 1m	pc	408.00				
		Motorized damper						
	1211(5)	MOD-01; 1000mm x 1200mm	pc	1.00				
	1211(5)	MOD-04; 1250mm x 1200mm	pc	1.00				
	1211(5)	MOD-06; 1200mm x 1000mm	pc	1.00				
	1211(5)	MOD-08; 1000mm x 1000mm	pc	1.00				
	1211(5)	MOD-09; 1000mm x 700mm	pc	1.00				
	1211(5)	MOD-10; 1500mm x 900mm	pc	1.00				
	1211(5)	MOD-11; 1500mm x 1000mm	pc	1.00				
	1211(5)	MOD-12; 1500mm x 900mm	pc	1.00				
	1211(5)	MOD-13; 1500mm x 850mm	pc	1.00				
	1211(5)	MOD-14; 1000mm x 700mm	pc	1.00				
		Sound Attenuator						
	1211(6)	SA-54; 20620cmh; 1250mm x 1000mm x 1500mm; 80Pa; Upstream	pc	1.00				
	1211(6)	SA-55; 20620cmh; 1250mm x 1000mm x 1500mm; 80Pa; Upstream	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	SA-56; 48012cmh; 1200mm x 1000mm x 900mm; 74Pa; Upstream	pc	1.00				
	1211(6)	SA-57; 48012cmh; 1200mm x 1000mm x 900mm; 74Pa; Upstream	pc	1.00				
	1211(6)	SA-60; 48012cmh; 1200mm x 1000mm x 900mm; 74Pa; Upstream	pc	1.00				
	1211(6)	SA-61; 48012cmh; 1200mm x 1000mm x 900mm; 74Pa; Upstream	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Fan Coil Unit, VRF/Multi-split type; complete with insulation, thermostats, speed regulators and all necessary accessories and connections						
	1213(2)	ON-MZ-IU-1A/1B; 5.6 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	ON-MZ-IU-2A/2B; 14kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	ON-MZ-IU-3A/3B; 14 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	ON-MZ-IU-4A/4B; 28 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	ON-MZ-IU-5A/5B; 7.1 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	ON-MZ-IU-6A/6B; 14 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1213(2)	ON-MZ-IU-7A/7B; 3.6 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	ON-MZ-IU-8A/8B/8C/8D; 28 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	4.00				
	1213(2)	ON-MZ-IU-10A-10G; 87 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	7.00				
	1215(1)	ON-MZ-AHUDX-01; 76.9 kW cooling cap; 350 Pa return; 380V/3ph/60Hz; w/ VFD	set	1.00				
		Air Cooled Condensing Unit (ACCU), VRF/Multi-split type; including all necessary accessories and connections						
	1213(1)	ON-GL-OU-01; 162 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
	1213(1)	ON-GL-OU-02; 162 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
	1213(1)	ON-GL-OU-03; 157 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
	1213(1)	ON-GL-OU-04; 157 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
	1213(1)	ON-GL-OU-05; 130 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
	1213(1)	ON-GL-OU-06; 130 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
	1213(1)	ON-GL-OU-07; 90 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
		Fan Coil Unit (FCU), chilled water type; complete with insulation, thermostats, speed regulators and all necessary accessories and connections						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1214(1)	ON-CL-FCU-01; ducted type; 1.7kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-02; ducted type; 2.2kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-03; ducted type; 3.5kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-04; ducted type; 1.3kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-05; ducted type; 1.1kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-06; ducted type; 5.3kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-07; ducted type; 4.6kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-08; ducted type; 1kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-09; ducted type; 1.3kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-10; ducted type; 2.7kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-11A & 11B; ducted type; 8.8kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	2.00				
	1214(1)	ON-CL-FCU-12; ducted type; 2.4kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-13; ducted type; 1.9kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-14; ducted type; 0.9kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	ON-CL-FCU-15; ducted type; 6.2kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				

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 STATION E&M WORKS - ORTIGAS NORTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1214(1)	ON-CL-FCU-16; ducted type; 5.8kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
		Air Handling Unit (AHU), chilled water type; complete with insulation, thermostats, speed regulators and all necessary accessories and connections						
	1215(1)	ON-MZ-AHU-01; 409.5 kW total cooling cap; 900 Pa return; 380V/3ph/60Hz; w/ VFD	set	1.00				
	1215(1)	ON-MZ-AHU-02; 409.5 kW total cooling cap; 900 Pa return; 380V/3ph/60Hz; w/ VFD	set	1.00				
	1215(1)	ON-CL-AHU-01; 480.1 kW total cooling cap; 750 Pa return; 380V/3ph/60Hz; w/ VFD	set	1.00				
	1215(1)	ON-CL-AHU-02; 480.1 kW total cooling cap; 750 Pa return; 380V/3ph/60Hz; w/ VFD	set	1.00				
		Fresh Air Handling Unit (FAHU), chilled water type; complete with insulation, thermostats, speed regulators and all necessary accessories and connections						
	1215(1)	ON-CL-FAH-01; 10.4 KW cooling capacity, 500 Pa; 380V/3ph/60Hz; w/ VFD	set	1.00				
	1215(1)	ON-CL-FAH-02; 34.8 KW cooling capacity, 500 Pa; 380V/3ph/60Hz; w/ VFD	set	1.00				
		PRESSURIZATION SYSTEM						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Galvanized steel sheet ductwork ancillaries including flexible connections and flanges; conforming to the MPF Technical Specifications specified in 1211 Ductworks and Accessories						
		Motorized Fire Smoke Damper						
	1211(5)	MSFD-1; 1000mm x 300mm	pc	1.00				
	1211(5)	MSFD-83A/83B; 750mm x 700mm	pc	2.00				
	1211(5)	MSFD-120/121; 750mm x 700mm	pc	2.00				
		Fresh Air Grille						
	1211(6)	FAG-19; 1500mm x 600mm fire rated	pc	1.00				
	1211(6)	FAG-20; 1500mm x 600mm	pc	1.00				
	1211(6)	FAG-21; 1500mm 600mm	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Ventilation fans; including all accessories, controls, wirings, conduits, vibration isolator and all other connections needed to complete the system						
	1216(4)	ON-CL-FAF-4A/4B; 18,720CMH; 300 Pa; axial type; 5.5kW; 380V/3ph/60Hz with VFD	set	2.00				
	1216(4)	ON-GL-FAF-1A/1B; 18,720CMH; 300 Pa; axial type; 4kW; 380V/3ph/60Hz with VFD	set	2.00				
	1216(4)	ON-GL-FAF-2A/2B; 18,720CMH; 300 Pa; axial type; 4kW; 380V/3ph/60Hz with VFD	set	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Allow for the provision of						
	1211(6)	Duct work ancillaries and differential pressure sensor including wirings, cables, conduits, controls and all necessary connections to complete the system and as described	item	1.00				
		SMOKE EXHAUST SYSTEM						
		Galvanized carbon steel sheet rectangular ducts and fittings; fire rated; conforming to SMACNA HVAC Duct Construction Standards						
	1211(2)	Gauge 16	m2	3,415.00				
		Thermal Insulation; Insuflrax 40mm thick; 2.0hour fire rated; 96kg/cu,m						
	1212(1)	fixing externally to rectangular ducts	m2	3,415.00				
		Galvanized carbon steel sheet ductwork ancillaries including flexible connections and flanges; conforming to the MPF Technical Specifications specified in 1211 - Ductworks and Accessories						
		Volume damper						
	1211(5)	600mm x 300mm	pc	72.00				
		Fire Damper						
	1211(5)	900mm x 900mm	pc	1.00				
	1211(5)	1000mm x 700mm	pc	1.00				
	1211(5)	1500mm x 800mm	pc	1.00				
		Non-Return Damper						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(5)	350mm x 350mm	pc	1.00				
	1211(5)	700mm x 500mm	pc	1.00				
	1211(5)	700mm x 600mm	pc	2.00				
	1211(5)	1250mm x 1000mm	pc	1.00				
	1211(5)	1500mm x 900mm	pc	1.00				
		Smoke Exhaust Grilles						
	1211(6)	SEG-01; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-02; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-03; 1500mm x 600mm	pc	1.00				
	1211(6)	SEG-04; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-05; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-06; 150mm x 100mm	pc	1.00				
	1211(6)	SEG-07; 150mm x 100mm	pc	1.00				
	1211(6)	SEG-8A/8B; 400mm x 400mm	pc	2.00				
	1211(6)	SEG-9A/9P; 1000mm x 150mm	pc	16.00				
	1211(6)	SEG-10A/10P; 1000mm x 150mm	pc	16.00				
	1211(6)	SEG-11A/11P; 600mm x 600mm	pc	16.00				
	1211(6)	SEG-12; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-13; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-14; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-15; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-16; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-17; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-18; 600mm x 600mm	pc	1.00				
	1211(6)	SEG-19; 600mm x 600mm	pc	1.00				
	1211(6)	SEG-20; 1500mm x 600mm	pc	1.00				
	1211(6)	SEG-21; 600mm x 600mm	pc	1.00				
	1211(6)	SEG-22/22D; 200mm x 200mm	pc	4.00				
	1211(6)	SEG-23; 400mm x 400mm	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	SEG-24; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-25; 400mm x 400mm	pc	1.00				
	1211(6)	SEG-26; 600mm x 600mm	pc	1.00				
	1211(6)	SEG-27A/27C; 400mm x 400mm	pc	3.00				
	1211(6)	SEG-28A/28F; 300mm x 300mm	pc	6.00				
		Smoke Exhaust Grilles						
	1211(6)	RAG 1-72; 600x300mm	pc	72.00				
		Return Air Diffuser						
	1211(6)	600mm x 600mm	pc	48.00				
		Flexible duct						
	1211(4)	150mm x 2m	pc	48.00				
		Motorized Smoke Fire Damper						
	1211(5)	MSFD-16 to MSFD-26; 700mm x 500mm	pc	11.00				
	1211(5)	MSFD-27; 700mm x 300mm	pc	1.00				
	1211(5)	MSFD-28; 300mm x 300mm	pc	1.00				
	1211(5)	MSFD-35; 700mm x 600mm	pc	1.00				
	1211(5)	MSFD-36; 700mm x 600mm	pc	1.00				
	1211(5)	MSFD-38; 1250mm x 700mm	pc	1.00				
	1211(5)	MSFD-39; 1250mm x 700mm	pc	1.00				
	1211(5)	MSFD-40 to MSFD-47; 600mm x 500mm	pc	8.00				
	1211(5)	MSFD-48; 300mm x 300mm	pc	1.00				
	1211(5)	MSFD-51; 900mm x 900mm	pc	1.00				
	1211(5)	MSFD-53; 1500mm x 900mm	pc	1.00				
	1211(5)	MSFD-54; 1500mm x 900mm	pc	1.00				
	1211(5)	MSFD-55; 1500mm x 1000mm	pc	1.00				
	1211(5)	MSFD-56; 1500mm x 900mm	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(5)	MSFD-97; 500mm x 500mm	pc	1.00				
	1211(5)	MSFD-98; 500mm x 500mm	pc	1.00				
	1211(5)	MSFD-99; 500mm x 500mm	pc	1.00				
	1211(5)	MSFD-100; 500mm x 500mm	pc	1.00				
	1211(5)	MSFD-105; 1500mm x 900mm	pc	1.00				
	1211(5)	MSFD-106; 1500mm x 900mm	pc	1.00				
	1211(5)	MSFD-118; 1500mm x 900mm	pc	1.00				
	1211(5)	MSFD-119; 1500mm x 850mm	pc	1.00				
		Sound Attenuator						
	1211(5)	SA-13; 9480cmh; 700mm x 500mm x 1500mm; 13Pa; downstream	pc	1.00				
	1211(5)	SA-14; 9480cmh; 700mm x 500mm x 1500mm; 13Pa; upstream	pc	1.00				
	1211(5)	SA-15; 7560cmh; 800mm x 800mm x 900mm; 5Pa; downstream	pc	1.00				
	1211(5)	SA-16; 7560cmh; 800mm x 800mm x 900mm; 5Pa; upstream	pc	1.00				
	1211(5)	SA-17; 4260cmh; 600mm x 500mm x 900mm; 15Pa; downstream	pc	1.00				
	1211(5)	SA-18; 7560cmh; 600mm x 500mm x 900mm; 15Pa; upstream	pc	1.00				
	1211(5)	SA-19; 11880cmh; 700mm x 600mm x 1500mm; 74Pa; downstream	pc	1.00				
	1211(5)	SA-20; 11880cmh; 700mm x 600mm x 1500mm; 74Pa; upstream	pc	1.00				
	1211(5)	SA-21; 28800cmh; 800mm x 800mm x 2100mm; 64Pa; downstream	pc	1.00				
	1211(5)	SA-22; 28800cmh; 800mm x 800mm x 2100mm; 64Pa; downstream	pc	1.00				
	1211(5)	SA-23; 28800cmh; 800mm x 800mm x 2100mm; 64Pa; downstream	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(5)	SA-24; 28800cmh; 800mm x 800mm x 2100mm; 64Pa; upstream	pc	1.00				
	1211(5)	SA-39; 3850cmh; 500mm x 500mm x 900mm; 63Pa; upstream	pc	1.00				
	1211(5)	SA-40; 3850cmh; 500mm x 500mm x 900mm; 63Pa; downstream	pc	1.00				
	1211(5)	SA-46; 53550cmh; 1200mm x 1000mm x 1200mm; 74Pa; downstream	pc	1.00				
	1211(5)	SA-47; 53550cmh; 1200mm x 1000mm x 1200mm; 74Pa; upstream	pc	1.00				
	1211(5)	SA-48; 53550cmh; 1200mm x 1000mm x 1200mm; 74Pa; downstream	pc	1.00				
	1211(5)	SA-49; 53550cmh; 1200mm x 1000mm x 1200mm; 74Pa; upstream	pc	1.00				
	1211(5)	SA-50; 37601cmh; 1250mm x 1000mm x 1200mm; 68Pa; downstream	pc	1.00				
	1211(5)	SA-51; 37601cmh; 1250mm x 1000mm x 1200mm; 68Pa; upstream	pc	1.00				
	1211(5)	SA-52; 37601cmh; 1250mm x 1000mm x 1200mm; 68Pa; downstream	pc	1.00				
	1211(5)	SA-53; 37601cmh; 1250mm x 1000mm x 1200mm; 68Pa; upstream	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Ventilation fans; including all accessories, controls, wirings, conduits, vibration isolator and all other connections needed to complete the system						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1216(4)	ON-CL-SEF-1A/1B; 9,480CMH; 1600 Pa; centrifugal type; 7.5kW; 380V/3ph/60Hz with VFD, fire rated @ 250°C/2hrs	set	2.00				
	1216(4)	ON-CL-SEF-2A/2B; 7,560CMH; 1,350 Pa; centrifugal type; 5.5kW; 380/3ph/60Hz with VFD	set	2.00				
	1216(4)	ON-CL-SEF-3A/3B; 4,260CMH; 1600 Pa; centrifugal type; 3.7kW; 3800V/3ph/60Hz with VFD, fire rated @ 250°C/2hrs	set	2.00				
	1216(4)	ON-CL-SEF-4A/4B; 11,880CMH; 1600 Pa; centrifugal type; 7.5kW; 380V/3ph/60Hz with VFD, fire rated @ 250°C/2hrs	set	2.00				
	1216(4)	ON-CL-SEF-05/06; 28,800CMH; 1130 Pa; centrifugal type; 12kW; 380V/3ph/60Hz with VFD, fire rated @ 250°C/2hrs	set	2.00				
	1216(4)	ON-CL-SEF-07/08; 28,800CMH; 1130 Pa; centrifugal type; 12kW; 380V/3ph/60Hz with VFD, fire rated @ 250°C/2hrs	set	2.00				
	1216(4)	ON-MZ-SEF-1A/1B; 13320CMH; 1,150 Pa; centrifugal type; 10kW; 380V/3ph/60Hz with VFD and vibrator insulator	set	2.00				
	1216(4)	ON-MZ-RAF-01/02; 53,550CMH; 1,150 Pa; centrifugal type; 32kW; 380V/3ph/60Hz with VFD and vibrator insulator; fire rated @250C/2hours	set	2.00				
	1216(4)	ON-MZ-RAF-03/04; 53,550CMH; 1,150 Pa; centrifugal type; 32kW; 380V/3ph/60Hz with VFD and vibrator insulator; fire rated @250C/2hours	set	2.00				
	1216(4)	ON-CL-RAF-01; 47,540CMH; 1,150 Pa; centrifugal type; 29kW; 380V/3ph/60Hz with VFD and vibrator insulator; fire rated @250C/2hours	set	1.00				
	1216(4)	ON-CL-RAF-02; 47,540CMH; 1,150 Pa; centrifugal type; 29kW; 380V/3ph/60Hz with VFD and vibrator insulator; fire rated @250C/2hours	set	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Allow for the provision of						
	1216	Duct work ancillaries and differential pressure sensor including wirings, cables, conduits, controls and all necessary connections to complete the system and as describe	item	1.00				
		TUNNEL VENTILATION SYSTEM						
		Ductwork ancillaries including flexible connections and flanges conforming to the installation of duct accessories specified in MPF Technical specification 1211 Ductworks and Accessories						
		Tunnel Ventilation Dampers						
	1228(1)	MSFD-108; 5000mm x 2500mm Multi blade, electric; 360,000cu.m/hr.	pc	1.00				
	1228(1)	MSFD-109/109B; 5000mm x 2500mm Multi blade, electric; 360,000cu.m/hr.	pc	2.00				
	1228(1)	MSFD-110; 3000mm x 3750mm Multi blade, electric; 360,000cu.m/hr.	pc	1.00				
	1228(1)	MSFD-111; 2500mm x 4500mm Multi blade, electric; 396,000cu.m/hr.	pc	1.00				
	1228(1)	MSFD-112A/112B; 5000mm x 2500mm Multi blade, electric; 396,000cu.m/hr.	pc	2.00				
	1228(1)	MSFD-113; 5000mm x 2500mm Multi blade, electric; 396,000cu.m/hr.	pc	1.00				
	1228(1)	MSFD-114A/114B; 5000mm x 2500mm Multi blade, electric; 396,000cu.m/hr.	pc	2.00				
	1228(1)	MSFD-115; 3000mm x 3750mm Multi blade, electric; 396,000cu.m/hr.	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1228(1)	MSFD-116; 5000mm x 2500mm Multi blade, electric; 324,000cu.m/hr.	pc	1.00				
	1228(1)	MSFD-117A/117B; 5000mm x 2500mm Multi blade, electric ;324,000cu.m/hr.	pc	2.00				
	1228(1)	MSFD-118; 3000mm x 3750mm Multi blade, electric; 360,000cu.m/hr.	pc	1.00				
	1228(1)	MSFD-119; 3000mm x 3750mm Multi blade, electric; 396,000cu.m/hr.	pc	1.00				
	1228(1)	MSFD-120; 3000mm x 3750mm Multi blade, electric; 396,000cu.m/hr.	pc	1.00				
	1228(1)	MSFD-121; 3000mm x 3750mm Multi blade, electric; 324,000cu.m/hr.	pc	1.00				
		Motorized Smoke Fire Damper						
	1211(5)	ON-ST-TVS-01, 6600mm X 5000mm	pc	1.00				
	1211(5)	ON-ST-TVS-01, 5500mm X 5000mm	pc	1.00				
	1211(5)	ON-ST-TVS-01, 6600mm X 5000mm	pc	1.00				
	1211(5)	ON-ST-TVS-01, 5500mm X 7400mm	pc	1.00				
		Tunnel Ventilation Silencer						
	1229(1)	ON-MZ-SIL-01; 360,000 m3/hr. @ 150 Pa Max PD; 3500 (W) x 3000 (H) x 3000 (L) mm	pc	1.00				
	1229(1)	ON-MZ-SIL-02; 360,000 m3/hr. @ 150 Pa Max PD; 3500 (W) x 3000 (H) x 3000 (L) mm	pc	1.00				
	1229(1)	ON-MZ-SIL-03; 396,000 m3/hr. @ 150 Pa Max PD; 3500 (W) x 3000 (H) x 3000 (L) mm	pc	1.00				
	1229(1)	ON-MZ-SIL-04; 396,000 m3/hr. @ 150 Pa Max PD; 3500 (W) x 3000 (H) x 3000 (L) mm	pc	1.00				
	1229(1)	ON-MZ-SIL-05; 396,000 m3/hr. @ 150 Pa Max PD; 3500 (W) x 3000 (H) x 3000 (L) mm	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1229(1)	ON-MZ-SIL-06; 396,000 m3/hr. @ 150 Pa Max PD; 3500 (W) x 3000 (H) x 3000 (L) mm	pc	1.00				
	1229(1)	ON-MZ-SIL-07; 324,000 m3/hr. @ 150 Pa Max PD; 3500 (W) x 3000 (H) x 3000 (L) mm	pc	1.00				
	1229(1)	ON-MZ-SIL-08; 324,000 m3/hr. @ 150 Pa Max PD; 3500 (W) x 3000 (H) x 3000 (L) mm	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Ventilation fans; including all necessary accessories, controls, cables/wirings, conduits, vibration isolator and all other connections needed to complete the system						
	1227(1)	ON-MZ-TVF-01; Axial flow, fully reversible; direct driven; 360,000 m3/hr. @ 1200Pa Static Pressure; 250°C for 1 hr.;	set	1.00				
	1227(1)	ON-MZ-TVF-02; Axial flow, fully reversible; direct driven; 396,000 m3/hr. @ 1400 Pa; 250°C for 1 hr.	set	1.00				
	1227(1)	ON-MZ-TVF-03; Axial flow, fully reversible; direct driven; 396,000 m3/hr. @ 1500 Pa; 250°C for 1 hr.	set	1.00				
	1227(1)	ON-MZ-TVF-04; Axial flow, fully reversible; direct driven; 324,000 m3/hr. @ 1200 Pa; 250°C for 1 hr.	set	1.00				
		Allow for the provision of						
	1227	Tunnel ventilation ducts and ancillaries including grilles, dampers, flanges, connections and all other necessary accessories	item	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1112	1112 (8)	Tap-off Box complete with 1200AT Tap-off Breaker	set	2.00				
		Cable Tray; including all necessary accessories/ ancillaries, fittings hangers and supports; reference STN-MEP-ELL-ON-3301 to 3346						
1117	1117 (1a)	50mm x 100mm	m	400.00				
1117	1117 (1b)	100mm x 100mm	m	600.00				
1117	1117 (1c)	150mm x 100mm	m	1,600.00				
1117	1117 (1d)	200mm x 100mm	m	500.00				
1117	1117 (1e)	225mm x 100mm	m	200.00				
1117	1117 (1f)	300mm x 100mm	m	1,300.00				
1117	1117 (1g)	400mm x 100mm	m	400.00				
1117	1117 (1h)	450mm x 100mm	m	100.00				
1117	1117 (1i)	500mm x 100mm	m	100.00				
1117	1117 (1j)	600mm x 100mm	m	1,200.00				
1117	1117 (1k)	750mm x 100mm	m	1,000.00				
1117	1117 (1l)	900mm x 100mm	m	500.00				
		Intermediate metallic conduit (IMC); reference STN-MEP-ELL-ON-2012						
		Surface fixed; including all necessary supports and accessories						
1116	1116 (2a)	20 mm diameter	m	100.00				
1116	1116 (2b)	25 mm diameter	m	800.00				
1116	1116 (2c)	32 mm diameter	m	300.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1116	1116 (2d)	40 mm diameter	m	100.00				
1116	1116 (2e)	50 mm diameter	m	200.00				
1116	1116 (2f)	65 mm diameter	m	100.00				
1116	1116 (2g)	80 mm diameter	m	200.00				
1116	1116 (2h)	100 mm diameter	m	200.00				
		Rigid metallic conduit (RMC); reference STN-MEP-ELL-ON-3300 to 3344						
1116	1116 (3a)	15mm diameter	m	1,100.00				
1116	1116 (3b)	20mm diameter	m	500.00				
1116	1116 (3c)	25mm diameter	m	600.00				
1116	1116 (3d)	32mm diameter	m	1,100.00				
1116	1116 (3e)	40mm diameter	m	500.00				
1116	1116 (3f)	50mm diameter	m	200.00				
1116	1116 (3g)	65mm diameter	m	100.00				
		Feeder wires/cables; type XLPE; reference STN-MEP-ELL-ON-2012						
		Drawing into conduits; (conduits measured separately)						
1121	1121 (2a)	2C x 14 sq. mm	m	100.00				
1121	1121 (2b)	3C x 14mm2	m	1,200.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1121	1121 (2c)	3C x 22mm2	m	200.00				
1121	1121 (2d)	3C x 30mm2	m	600.00				
1121	1121 (2e)	3C x 38mm2	m	900.00				
1121	1121 (2f)	3C x 50mm2	m	600.00				
1121	1121 (2g)	3C x 60mm2	m	1,100.00				
1121	1121 (2h)	3C x 80mm2	m	400.00				
1121	1121 (2i)	3C x 400mm2	m	300.00				
1121	1121 (2j)	4C x 14 sq. mm	m	4,000.00				
1121	1121 (2k)	4C x 22 sq. mm	m	500.00				
1121	1121 (2l)	4C x 30 sq. mm	m	800.00				
1121	1121 (2m)	4C x 50 sq. mm	m	200.00				
1121	1121 (2n)	4C x 100 sq. mm	m	500.00				
1121	1121 (2o)	4C x 150 sq. mm	m	200.00				
1121	1121 (2p)	4C x 200 sq. mm	m	200.00				
1121	1121 (2q)	4C x 400 sq. mm	m	900.00				
		Feeder wires/cables; type XLPE-F; reference STN-MEP-ELL-ON-2012						
		Drawing into conduits; (conduits measured separately)						
1121	1121 (2a)	2C x 14 sq. mm	m	800.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1121	1121 (2b)	3C x 14mm2	m	4,100.00				
1121	1121 (2c)	3C x 22mm2	m	600.00				
1121	1121 (2d)	3C x 30mm2	m	300.00				
1121	1121 (2e)	3C x 38mm2	m	700.00				
1121	1121 (2f)	3C x 50mm2	m	700.00				
1121	1121 (2g)	3C x 80mm2	m	300.00				
1121	1121 (2h)	3C x 200mm2	m	100.00				
1121	1121 (2i)	3C x 400mm2	m	300.00				
1121	1121 (2j)	4C x 14 sq. mm	m	1,500.00				
1121	1121 (2k)	4C x 22 sq. mm	m	400.00				
1121	1121 (2l)	4C x 30 sq. mm	m	600.00				
1121	1121 (2m)	4C x 38 sq. mm	m	100.00				
1121	1121 (2n)	4C x 50 sq. mm	m	100.00				
1121	1121 (2o)	4C x 80 sq. mm	m	200.00				
1121	1121 (2p)	4C x 100 sq. mm	m	500.00				
1121	1121 (2q)	4C x 150 sq. mm	m	400.00				
1121	1121 (2r)	4C x 200 sq. mm	m	400.00				
1121	1121 (2s)	4C x 250 sq. mm	m	4,600.00				
1121	1121 (2t)	4C x 400 sq. mm	m	3,700.00				
		Feeder wires/cables; type XLPE/ CPC; reference STN-MEP-ELL-ON-2012						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Drawing into conduits; (conduits measured separately)						
1121	1121 (4a)	1C x 5.5 sq. mm	m	8,300.00				
1121	1121 (4b)	1C x 8.0 sq. mm	m	2,100.00				
1121	1121 (4c)	1C x 14 sq. mm	m	600.00				
1121	1121 (4d)	1C x 22 sq. mm	m	400.00				
1121	1121 (4e)	1C x 30 sq. mm	m	200.00				
1121	1121 (4f)	1C x 50 sq. mm	m	300.00				
1121	1121 (4g)	1C x 38 sq. mm	m	300.00				
1121	1121 (4h)	1C x 60 sq. mm	m	300.00				
		Feeder wires/cables; type XLPE-F/ CPC; reference STN-MEP-ELL-ON-2012						
		Drawing into conduits; (conduits measured separately)						
1121	1121 (5a)	1C x 5.5 sq. mm	m	6,600.00				
1121	1121 (5b)	1C x 8.0 sq. mm	m	1,800.00				
1121	1121 (5c)	1C x 14 sq. mm	m	1,200.00				
1121	1121 (5d)	1C x 22 sq. mm	m	100.00				
1121	1121 (5e)	1C x 30 sq. mm	m	300.00				
1121	1121 (5f)	1C x 38 sq. mm	m	200.00				
1121	1121 (5g)	1C x 50 sq. mm	m	300.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1121	1121 (5h)	1C x 60 sq. mm	m	700.00				
1121	1121 (5i)	1C x 80 sq. mm	m	500.00				
		Panel boards; including Busbar, Neutral bus, selector switch, contactors, relays, integral surge protection devices (SPD), phase indicating lights, power meters and auxiliary contacts for BMS interconnection and all necessary accessories in accordance with the manufacturer's instructions and as shown in drawings with reference STN-MEP-ELL-ON-2012 and						
		Panel board						
1113	1113 (1a)	Panel board; ON-CL-ELDB-01 (BOH LTG)	assy	1.00				
1113	1113 (1b)	Panel board; ON-CL-ELDB-02 (FOH LTG)	assy	1.00				
1113	1113 (1c)	Panel board; ON-CL-ELDB-03 FOH LIGHTING	assy	1.00				
1113	1113 (1d)	Panel board; ON-CL-ELDB-04 FOH LTG.	assy	1.00				
1113	1113 (1e)	Panel board; ON-CL-ELDB-05 FOH LIGHTING	assy	1.00				
1113	1113 (1f)	Panel board; ON-CL-ELDB-06 (BOH LIGHTING)	assy	1.00				
1113	1113 (1g)	Panel board; ON-CL-EMCC-01	assy	1.00				
1113	1113 (1h)	Panel board; ON-CL-EMCC-02	assy	1.00				
1113	1113 (1i)	Panel board; ON-CL-EMCC-03	assy	1.00				
1113	1113 (1j)	Panel board; ON-CL-EMCC-05	assy	1.00				
1113	1113 (1k)	Panel board; ON-CL-EPDB-01 (FCU's)	assy	1.00				
1113	1113 (1l)	Panel board; ON-CL-EPDB-02 (FOR FCU's)	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113 (1m)	Panel board; ON-CL-PDB-01 (SMALL POWER)	assy	1.00				
1113	1113 (1n)	Panel board; ON-CL-PDB-02 (SMALL POWER)	assy	1.00				
1113	1113 (1o)	Panel board; ON-CL-PDB-03	assy	1.00				
1113	1113 (1p)	Panel board; ON-CL-PDB-04 (SMALL POWER)	assy	1.00				
1113	1113 (1q)	Panel board; ON-CL-UDB-01 (EMG LTG & POWER)	assy	1.00				
1113	1113 (1r)	Panel board; ON-CL-UDB-02 (EMG.LTG & POWER)	assy	1.00				
1113	1113 (1s)	Panel board; ON-CL-UDB-03 FOH EMG. POWER	assy	1.00				
1113	1113 (1t)	Panel board; ON-CL-UDB-04 FOH EMG. LTG.	assy	1.00				
1113	1113 (1u)	Panel board; ON-MZ-ELDB-01 (BOH LIGHTING)	assy	1.00				
1113	1113 (1v)	Panel board; ON-MZ-ELDB-02 (BOH LIGHTING)	assy	1.00				
1113	1113 (1w)	Panel board; ON-MZ-EMCC-01	assy	1.00				
1113	1113 (1x)	Panel board; ON-MZ-EMCC-02	assy	1.00				
1113	1113 (1y)	Panel board; ON-MZ-EMCC-03	assy	1.00				
1113	1113 (1z)	Panel board; ON-MZ-EMCC-04	assy	1.00				
1113	1113 (1aa)	Panel board; ON-MZ-EMCC-06	assy	1.00				
1113	1113 (1ab)	Panel board; ON-MZ-EMCC-07	assy	1.00				
1113	1113 (1ac)	Panel board; ON-MZ-EMCC-08	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113 (1ad)	Panel board; ON-MZ-EMDB-01	assy	1.00				
1113	1113 (1ae)	Panel board; ON-MZ-EPDB-01 (FOR IDU's)	assy	1.00				
1113	1113 (1af)	Panel board; ON-MZ-EPDB-02 (FOR IDU's)	assy	1.00				
1113	1113 (1ag)	Panel board; ON-MZ-ESMDB-01	assy	1.00				
1113	1113 (1ah)	Panel board; ON-MZ-MCC-01	assy	1.00				
1113	1113 (1ai)	Panel board; ON-MZ-MCC-02	assy	1.00				
1113	1113 (1aj)	Panel board; ON-MZ-MDB-01	assy	1.00				
1113	1113 (1ak)	Panel board; ON-MZ-PDB-01 (SMALL POWER)	assy	1.00				
1113	1113 (1al)	Panel board; ON-MZ-PDB-02 (SMALL POWER)	assy	1.00				
1113	1113 (1am)	Panel board; ON-MZ-SMDB-01	assy	1.00				
1113	1113 (1an)	Panel board; ON-MZ-UDB-01 (EMG.LTG & POWER)	assy	1.00				
1113	1113 (1ao)	Panel board; ON-MZ-UDB-02 (EMG.LTG. & POWER)	assy	1.00				
1113	1113 (1ap)	Panel board; ON-MZ-USMDB-01	assy	1.00				
1113	1113 (1aq)	Panel board; ON-PL-ELDB-01 FOH LIGHTING	assy	1.00				
1113	1113 (1ar)	Panel board; ON-PL-ELDB-02 FOH LIGHTING	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113 (1as)	Panel board; ON-PL-ELDB-03 FOH LIGHTING	assy	1.00				
1113	1113 (1at)	Panel board; ON-PL-EMCC-01	assy	1.00				
1113	1113 (1au)	Panel board; ON-PL-PDB-01 SMALL POWER	assy	1.00				
1113	1113 (1av)	Panel board; ON-PL-PDB-02 SMALL POWER	assy	1.00				
1113	1113 (1aw)	Panel board; ON-PL-UDB-01 EMG.LTG & POWER	assy	1.00				
1113	1113 (1ax)	Panel board; ON-PL-UDB-02 EMG. LTG & POWER	assy	1.00				
1113	1113 (1ay)	Panel board; ON-PL-UDB-04 EMG.LTG & POWER	assy	1.00				
1113	1113 (1az)	Panel board; ON-ST-ELDB-01 ENTRANCE-1	assy	1.00				
1113	1113 (1ba)	Panel board; ON-ST-ELDB-02 ENTRANCE-02	assy	1.00				
1113	1113 (1bb)	Panel board; ON-TN-ELPDB-01 FOR TUNNEL	assy	1.00				
1113	1113 (1bc)	Panel board; ON-TN-ELPDB-02 FOR TUNNEL	assy	1.00				
1113	1113 (1bd)	Panel board; ON-CL-LCP-01	assy	1.00				
1113	1113 (1be)	Panel board; ON-CL-LCP-02	assy	1.00				
1114	1114 (1bf)	Panel board; ON-ADV-PDB-01	assy	1.00				
1115	1115 (1bg)	Panel board; ON-ADV-PDB-02	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1116	1116 (1bh)	Panel board; ON-ADV-PDB-03	assy	1.00				
1117	1117 (1bi)	Panel board; ON-ADV-PDB-04	assy	1.00				
1118	1118 (1bj)	Panel board; ON-ADV-PDB-05	assy	1.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described; reference STN-MEP-ELL-OS-3311 to 3334						
		Capacitor Bank						
1113	1113 (2a)	APFC Panel 01 & 02 ; 500 KVAR	assy	2.00				
		Enclosed Circuit Breaker (ECB); in NEMA 4X Enclosure						
1113	1113 (3a)	15A TPN	assy	2.00				
1113	1113 (3b)	25A SPN	assy	11.00				
1113	1113 (3c)	25A TPN	assy	39.00				
1113	1113 (3d)	30A TPN	assy	22.00				
1113	1113 (3e)	35A TPN	assy	5.00				
1113	1113 (3f)	40A TPN	assy	37.00				
1113	1113 (3g)	50A TPN	assy	18.00				
1113	1113 (3h)	60A TPN	assy	28.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113 (3i)	70A TPN	assy	9.00				
1113	1113 (3j)	80A TPN	assy	14.00				
1113	1113 (3k)	100A TPN	assy	13.00				
1113	1113 (3l)	125A TPN	assy	2.00				
1113	1113 (3m)	150A TPN	assy	5.00				
1113	1113 (3n)	200A TPN	assy	5.00				
1113	1113 (3o)	225A TPN	assy	1.00				
1113	1113 (3p)	250A TPN	assy	3.00				
1113	1113 (3q)	300A TPN	assy	5.00				
1113	1113 (3r)	350A TPN	assy	6.00				
1113	1113 (3s)	450A TPN	assy	1.00				
1113	1113 (3t)	500A TPN	assy	3.00				
1113	1113 (3u)	600A TPN	assy	7.00				
		Isolators						
1113	1113 (3v)	20A SPN; isolator Fire Shutter	assy	12.00				
1113	1113 (3w)	20A TPN; isolator for Water Heater	assy	9.00				
1113	1113 (3x)	20A TPN; Isolator; HL	assy	6.00				
1113	1113 (3y)	Isolator of FACP	assy	1.00				
1113	1113 (3z)	Isolator for DPMCP	assy	1.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113 (3aa)	Isolator for PLC Panel	assy	7.00				
		Automatic Transfer Switch; for Fire pump and Jockey pump						
1113	1113 (5)	1200AT, 3P	assy	1.00				
		Supply and fix the following items; including all necessary accessories such as Maintenance By-pass switch, LCD Status and control console, emergency power off and external battery system including cables in accordance with the manufacturer's instructions and as described with reference STN-MEP-ELL-OS-2011						
		Uninterruptible Power Supply (UPS)						
1114	1114 (1)	150KVA	set	2.00				
		Supply and fix the following items; Battery racks, battery controller, sensors as well as transducer for BMS interface, including cables in accordance with the manufacturer's instructions and as described with reference STN-MEP-ELL-OS-2011						
		External Battery System						
1114	1114 (2)	External Battery System; 3 hours	set	2.00				
		General Lighting and Power						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Conduit systems to receive final circuits; Intermediate Metallic Conduit (IMC) conduit including boxes, fittings and necessary flexible metallic conduit; reference STN-MEP-ELL-ON-3101-3146; STN-MEP-ELL-ON-3201-3246						
		From panel boards to						
1116	1116 (1a)	lighting points; locally controlled ceiling mounted	nr	4,206.00				
1116	1116 (1b)	lighting points; locally controlled wall mounted	nr	382.00				
1116	1116 (1c)	exit sign points	nr	106.00				
1116	1116 (1d)	switch points; 1 way 1 gang	nr	17.00				
1116	1116 (1e)	switch points; 1 way (emergency lighting)	nr	72.00				
1116	1116 (1f)	switch points; presence detector bypass switch (in metal clad)	nr	54.00				
1116	1116 (1g)	Surfaced Mounted switched socket outlet points	nr	42.00				
1116	1116 (1h)	Surfaced Mounted twin switched socket outlet points	nr	96.00				
1116	1116 (1i)	Surfaced Mounted twin switched socket outlet points on UPS Supply	nr	63.00				
1116	1116 (1j)	Fused Connection Unit complete with switch points for Hand dryer	nr	9.00				
1116	1116 (1k)	Fused Connection Unit complete with switch points for Fan Coil Unit	nr	23.00				
1116	1116 (1l)	Surfaced Mounted switched socket outlet points on UPS Supply	nr	24.00				
1116	1116 (1m)	Surfaced Mounted switched socket outlet points	nr	77.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1116	1116 (1n)	Surfaced Mounted socket outlet without switch points	nr	30.00				
1116	1116 (1n)	Fused Connection Unit complete with switch points	nr	11.00				
1116	1116 (1o)	10A Fused Connection Unit complete with switch for CCTV and Door Controller points	nr	69.00				
1116	1116 (1p)	Fused Connection Unit complete with switch points for MSFD & MOD (Metalclad type)	nr	109.00				
1116	1116 (1q)	Junction Box for "SN" fixture	nr	117.00				
1116	1116 (1r)	Junction Box for "PD" fixture	nr	115.00				
1116	1116 (1s)	Junction Box points for Escalator lighting	nr	8.00				
1116	1116 (1t)	Junction Box points for T&B mirror lighting	nr	6.00				
		Final circuits in single core LSOH/ Fire rated cables; drawing into intermediate metallic conduit (IMC) conduit; (conduits measured separately); reference STN-MEP-ELL-ON-3101-3146; STN-MEP-ELL-ON-3201-3246						
		From panel boards to						
1120	1120 (2a)	lighting points; locally controlled ceiling mounted	nr	4,206.00				
1120	1120 (2b)	lighting points; locally controlled wall mounted	nr	382.00				
1120	1120 (2c)	exit sign points	nr	106.00				
1120	1120 (2d)	switch points; 1 way 1 gang	nr	17.00				
1120	1120 (2e)	switch points; 1 way (emergency lighting)	nr	72.00				
1120	1120 (2f)	switch points; presence detector bypass switch (in metal clad)	nr	54.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix specified or approved equal lighting fixtures and ancillaries; reference STN-MEP-ELL-ON-2012, STN-MEP-ELL-ON-3101-3146; STN-MEP-ELL-ON-3201-3246						
		Lighting fixtures						
1118	1118 (1a)	type A1; rated IP20 Batten type Lighting Fixture	set	179.00				
1118	1118 (1b)	type A1; rated IP20 Batten type Lighting Fixture connected to Emergency Power	set	94.00				
1118	1118 (1c)	type A2; rated IP20 Batten type Lighting Fixture	set	277.00				
1118	1118 (1d)	type A2; rated IP20 Batten type Lighting Fixture connected to Emergency Power	set	94.00				
1118	1118 (1e)	type A3; rated IP20 Batten type Lighting Fixture	set	1,181.00				
1118	1118 (1f)	type A3; rated IP20 Batten type Lighting Fixture connected to Emergency Power	set	504.00				
1118	1118 (1g)	type A4; rated IP20 Batten type Lighting Fixture	set	45.00				
1118	1118 (1h)	type A4; rated IP20 Batten type Lighting Fixture connected to Emergency Power	set	31.00				
1118	1118 (1g)	A5 - Base light LED linear module fixture, Batten type (100 - 240V, 8W, 3000K, 750lm, IP20, Lifetime 40,000 hrs., Medium B/A C/O 150mm diameter)	set	105.00				
1118	1118 (1h)	A5(E) -Base light LED linear module fixture, Batten type (100 - 240V, 8W, 3000K, 750lm, IP20, Lifetime 40,000 hrs., Medium B/A C/O 150mm diameter) with battery pack	set	46.00				
1118	1118 (1i)	type A6 - Base light LED Linear module fixture, Batten type (100-240V 13.6W 3000K 1800 lm IP20, Lifetime 40,000 hrs. W 70mm)	set	797.00				
1118	1118 (1j)	type B1; 2 x 2 recessed mounted LED Lighting Fixture	set	173.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Lighting Control Panel (LCP); including Busbar, Neutral bus, selector switch, contactors, relays, integral surge protection devices (SPD), phase indicating lights, power meters and auxiliary contacts for BMS interconnection and all necessary accessories in accordance with the manufacturer's instructions and as shown in drawings with reference STN-MEP-ELL-OS-3100 to 3244						
1119	1119	Lighting Control Panel (LCP)	assy	9.00				
		Allow for the provision of :						
1118	1118 (1v)	Lighting fixtures for Elevator Car including necessary controls, conduits and wirings as required	nr	1.00				
		Allow for the provision of :						
1121	1121 (a)	Tunnel Lightings and outlet including necessary controls, conduits and wirings as required	lot	1.00				
		Supply and Fix specified or approved equal field devices and accessories; reference STN-MEP-ELL-ON-3101-3146; STN-MEP-ELL-ON-3201-3246						
		Switches						
1120	1120 (1a)	1 gang, light switch, flush mounted, 1 pole, 15 A, 250V	set	17.00				
1119	1119 (1)	Presence Detector (PD)	nr	115.00				
1120	1120 (1b)	lighting switch, 1-way (emergency lighting)	nr	72.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1120	1120 (1c)	presence detector bypass switch	nr	54.00				
		Receptacle outlets						
1120	1120 (2a)	10A Surfaced Mounted switched socket outlet (Metal Clad)	set	42.00				
1120	1120 (2c)	10A Surfaced Mounted twin switched socket outlet (Metal Clad)	set	96.00				
1120	1120 (2d)	10A Surfaced Mounted twin switched socket outlet (Metal Clad) on UPS Supply	set	63.00				
1120	1120 (2e)	10A Fused Connection Unit complete with switch for Hand dryer	set	9.00				
1120	1120 (2f)	10A Fused Connection Unit complete with switch for Fan Coil Unit	set	23.00				
1120	1120 (2g)	10A Surfaced Mounted switched socket outlet (Metal Clad) on UPS Supply	set	24.00				
1120	1120 (2h)	16A Surfaced Mounted switched socket outlet (Metal Clad)	set	77.00				
1120	1120 (2i)	16A Surfaced Mounted socket outlet without switch (Metal Clad)	set	30.00				
1120	1120 (2j)	10A Fused Connection Unit complete with switch	set	11.00				
1120	1120 (2k)	10A Fused Connection Unit complete with switch for CCTV and Door Controller	set	69.00				
1120	1120 (2l)	10A Fused Connection Unit complete with switch for MSFD & MOD (Metalclad type)	set	109.00				
		Grounding System						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Copper Tape; including necessary connectors, exothermic welds, accessories and welds/ bonds to structure to complete the system; reference STN-MEP-ELL-ON-2031, 3411 to 3446						
1109	1109 (1a)	25mm x 3mm	m	1,000.00				
1109	1109 (1b)	25mm x 6mm	m	4,000.00				
1109	1109 (1c)	40mm x 6mm	m	700.00				
		Copper Cable; including necessary connectors, exothermic welds, accessories and welds/ bonds to structure to complete the system; reference STN-MEP-ELL-ON-2031, 3411 to 3446						
1109	1109 (3)	120 sq.mm	m	800.00				
		Grounding Mat; including necessary connectors, exothermic welds, accessories and welds/ bonds to structure to complete the system; reference STN-MEP-ELL-ON-2031, 3411 to 3446						
1109	1109 (3)	400mm2 Copper Strip		By Civil Contractor				
		Bare Copper Wire						
1109		80mm2 Bare Cu Round Conductor	m	100.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1109	1109 (4)	20mm diameter x 3000mm long ground rod		By Civil Contractor				
		Grounding Terminal; including Enclosures, insulators and the likes with to reference STN-MEP-ELL-ON-2031, 3411 to 3446						
1109	1109 (5a)	Main Grounding terminal; reference STN-MEP-ELL-ON-2031, 3411 to 3446	set	9.00				
1109	1109 (5b)	Grounding terminal for HV,LV & ELV; STN-MEP-ELL-ON-2031, 3411 to 3446	set	5.00				
1109	1109 (5c)	Grounding terminal; reference STN-MEP-ELL-ON-2031, 3411 to 3446	set	52.00				
		Lightning protection System						
		Copper Tape; including necessary connectors, exothermic welds, accessories and welds/ bonds to structure to complete the system; reference STN-MEP-ELL-ON-2031, 3401 to 3406						
1122	1122 (1b)	25mm x 3mm (Insulated)	m	100.00				
		Lightning Grounding Pit; including necessary connectors, accessories and welds ground wells; including 20mm diameter x 3000mm long ground rod reference; reference STN-MEP-ELL-ON-2031, 3401 to 3406						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1122	1122 (3)	Lightning Grounding Pit	set	3.00				
		ESE Air Terminal; complete with necessary accessories as complete						
1122	1122 (4)	Air Terminal (ESE type); complete with pole, mounting brackets, guy wires and all other necessary supports and accessories; reference STN-MEP-ELL-ON-2031, 3401 to 3406	set	3.00				
		Lightning Flash Counter; complete with necessary accessories as complete						
1122	1122 (5)	Lightning Flash Counter; reference STN-MEP-ELL-OS-2031	set	3.00				
		Telephone and Broadband Distribution System						
1126	1126 (1a)	100mm x 100mm (for telephone)	m	400.00				
1126	1126 (1b)	200mm x 100mm (for telephone)	m	100.00				
1126	1126 (1c)	100mm x 100mm (for Building Cabling System (BCS))	m	100.00				
1126	1126 (1d)	150mm x 100mm (for Building Cabling System (BCS))	m	100.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1126	1126 (1e)	300mm x 100mm (for Building Cabling System (BCS))	m	200.00				
		Cable Ladder; including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-ON-3662 to 3683						
1126	1126 (2)	100mm x 100mm	m	100.00				
1126	1126 (3)	300mm x 100mm	m	100.00				
		Approved Telephone system riser cables						
		10 pairs UTP Cat 5E Cable	m	100.00				
		25 pairs UTP Cat 5E Cable	m	100.00				
		50 pairs UTP Cat 5E Cable	m	100.00				
		Conduit points in Intermediate Metallic Conduit (IMC) including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-ON-3662 to 3683						
		From Intermediate Distribution Frame (IDF) to individual workstation/ node outlets						
1126	1126 (4a)	telephone outlet mounted flushed with floor finishes	nr	18.00				
1126	1126 (4b)	telephone outlet; floor mounted	nr	50.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		UTP Cat6 LSOH/FRT cables drawing into conduits (conduits measured separately) including necessary cable tagging						
		From Intermediate Distribution Frame (IDF) to individual workstation/ node outlets						
1126	1126 (5a)	telephone outlet mounted flushed with floor finishes	nr	18.00				
1126	1126 (5b)	telephone outlet; floor mounted	nr	50.00				
		Supply and fix specified or approved equal field devices and accessories						
1126	1126 (6a)	telephone outlet mounted flushed with floor finishes	set	18.00				
1126	1126 (6b)	telephone outlet; floor mounted	set	50.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described excluding active/core switches; reference STN-MEP-ELV-ON-2044						
1126	1126 (7)	Main Distribution Frame (MDF) including equipment rack and all necessary accessories	set	1.00				
1126	1126 (8)	Intermediate Distribution Frame (IDF) (6ways) complete with 100 pair block terminal cable	set	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		termination						
		Local Area Network (LAN) System						
		Cable tray; including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-ON-3661 to 3673						
		100mm x 100mm	m	300.00				
1127	1127 (3b)	1-24 cores Fiber Optic Cable	item	1.00				
		Conduit points in Intermediate Metallic Conduit (IMC) including all necessary fittings and accessories as well as hangers and supports						
		From Fiber terminal box (FTB) to individual workstation/ node outlets						
1127	1127 (4)	local area network (LAN) outlet points	nr	69.00				
		UTP Cat6 LSOH/FRT cables drawing into conduits (conduits measured separately) including necessary cable tagging						
		From Intermediate Distribution Frame (IDF) to individual workstation/ node outlets						
1127	1127 (5)	local area network (LAN) outlet points	nr	69.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix specified or approved equal field devices and accessories						
1127	1127 (6)	local area network (LAN) outlet points	set	69.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described excluding active/core switches; reference STN-MEP-ELV-ON-2048						
1127	1127 (7)	Intermediate Distribution Frame (IDF) (including patch panel, patch cord, power distribution units (PDU), blank panels and necessary wire managers	set	1.00				
1127	1127 (8)	Main Distribution Frame (MDF) including equipment rack and all necessary accessories	set	1.00				
		MATV System						
		Cable Ladder; including all necessary fittings and accessories as well as hangers and supports						
1125	1125 (1)	50 x 50mm	m	600.00				
		Approved MATV system riser cables						
		Drawing into conduits(conduits measured separately)						
1125	1125 (2)	1-RG11 Coaxial in 25mm PVC	item	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Conduit points in Rigid Polyvinyl Chloride (PVC) including all necessary fittings and accessories as well as hangers and supports						
		From MATV Pullbox to						
1125	1125 (3)	TV outlet points	nr	19.00				
		RG6 Coaxial cables drawing into conduits (conduits measured separately) including necessary cable tagging						
		From MATV Pullbox to						
1125	1125 (4)	TV outlet points	nr	19.00				
		Supply and fix specified or approved equal field devices and accessories						
1125	1125 (5)	TV Outlet	set	19.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described						
1125	1125 (6)	MATV Head end Equipment (Amplifier and Boosters)	set	8.00				
1125	1125 (7)	Pullbox	set	8.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Access Control System						
		Cable tray; including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-ON-3631 to 3655						
1124	1124 (1a)	50mm x 50mm (ACS)	m	800.00				
1124	1124 (2)	sized and typed as required	item	1.00				
		Conduit points in Intermediate Metallic Conduit (IMC) including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-ON-3631 to 3655						
		From access control pullbox to						
1124	1124 (3a)	Break Glass points	nr	34.00				
1124	1124 (3b)	Card Access Reader points	nr	34.00				
1124	1124 (3c)	Door Contact points	nr	58.00				
1124	1124 (3d)	Door Controller points	nr	34.00				
1124	1124 (3e)	Electromagnetic Lock points	nr	58.00				
1124	1124 (3f)	Push Button points	nr	34.00				
		Approved wires/cables drawing into conduits (conduits measured separately) including necessary cable tagging; reference STN-MEP-ELV-ON-3631 to 3655						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		From access control pullbox to						
1124	1124 (4a)	Break Glass points	nr	34.00				
1124	1124 (4b)	Card Access Reader points	nr	34.00				
1124	1124 (4c)	Door Contact points	nr	58.00				
1124	1124 (4d)	Door Controller points	nr	34.00				
1124	1124 (4e)	Electromagnetic Lock points	nr	58.00				
1124	1124 (4f)	Push Button points	nr	34.00				
		Supply and fix specified or approved equal field devices and accessories reference STN-MEP-ELV-ON-3631 to 3655						
1124	1124 (5a)	Break Glass	set	34.00				
1124	1124 (5b)	Card Access Reader	set	34.00				
1124	1124 (5c)	Door Contact	set	58.00				
1124	1124 (5d)	Door Controller	set	34.00				
1124	1124 (5e)	Electromagnetic Lock	set	58.00				
1124	1124 (5f)	Push Button	set	34.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described; reference STN-MEP-ELV-ON-3631 to 3655						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1124	1124 (6)	Door Access Controller Server including necessary POE Network switch Hub and Access Control System Workstation with card enrollment reader and printer	set	1.00				
		Fire Detection and Alarm System (FDAS)						
		Electrical Metallic Tubing (EMT) conduit; including all necessary fittings and accessories as well as hangers and supports STN-MEP-FPS-ON-2101 to 2104, 3101-3136						
1123	1123 (1)	size as required	item	1.00				
		Approved FDAS system riser cables						
		Drawing into conduits(conduits measured separately)						
1123	1123 (2)	type and size as required	item	1.00				
		Conduit points in Intermediate Metallic Conduit (IMC) including all necessary fittings and accessories as well as hangers and supports STN-MEP-FPS-ON-2101 to 2104, 3101-3136						
		From FACP to						
1123	1123 (3a)	smoke detector points	nr	511.00				
1123	1123 (3b)	combination detector points	nr	366.00				
1123	1123 (3c)	annunciator panel points	nr	3.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1123	1123 (3d)	manual call point points	nr	42.00				
1123	1123 (3e)	hooter with strobelight points	nr	45.00				
1123	1123 (3f)	control module points	nr	95.00				
1123	1123 (3g)	relay module points	nr	11.00				
1123	1123 (3i)	monitor module points	nr	24.00				
1123	1123 (3j)	fault isolator module points	nr	55.00				
1123	1123 (3l)	fireman telephone module points	nr	15.00				
1123	1123 (3m)	firefighting telephone points	nr	2.00				
		Approved FDAS wires/ cables drawing into conduits (conduits measured separately) including necessary cable tagging STN-MEP-FPS-ON-2101 to 2104, 3101-3136						
		From FACP to						
1123	1123 (4a)	smoke detector points	nr	511.00				
1123	1123 (4b)	combination detector points	nr	366.00				
1123	1123 (4c)	annunciator panel points	nr	3.00				
1123	1123 (4d)	manual call point points	nr	42.00				
1123	1123 (4e)	hooter with strobelight points	nr	45.00				
1123	1123 (4f)	control module points	nr	95.00				
1123	1123 (4g)	relay module points	nr	11.00				
1123	1123 (4i)	monitor module points	nr	24.00				
1123	1123 (4j)	fault isolator module points	nr	55.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described as shown in drawings with reference STN-MEP-FPS-ON-2101 to 2104, 3101-3136						
1123	1123 (6)	Fire Alarm Control Panel; including Monitors, main graphical annunciator Panel, workstations as well as necessary softwares including printer, network interface cards, Fiber optic converters, power supply and other necessary accessories	set	1.00				
		Allow for the provision of :						
1123	1123 (7)	Tunnel fireman's telephone including necessary controls, conduits and wirings as required	nr	1.00				
1130	1130 (1)	Building Management System (BMS)	item	1.00				
1130	1130 (2)	Disaster Preventive Monitor and Control Panel (DPMCP)	item	1.00				
		SUB-TOTAL (ELECTRICAL AND AUXILIARY INSTALLATION)						
		FIRE PROTECTION WORKS						
		WET PIPE SPRINKLER SYSTEM						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Black Steel pipes and fittings; seamless, schedule 40; conforming to ASME B31.1 power piping code, JIS G 3454, jointing in accordance with designer's specification						
		To walls and chased						
	1202(2)	65mm diameter	lm	16.00				
	1202(3)	extra over for elbow	pc	10.00				
	1202(2)	80mm diameter	lm	52.00				
	1202(3)	extra over for elbow	pc	18.00				
	1202(2)	150 mm diameter	lm	8.00				
	1202(2)	200 mm diameter	lm	30.00				
	1202(3)	extra over for elbow	pc	2.00				
	1202(3)	extra over for tee reducer	pc	2.00				
		To ceiling and suspended						
	1202(1)	25 mm diameter	lm	1,643.00				
	1202(1)	32 mm diameter	lm	204.00				
	1202(1)	40 mm diameter	lm	373.00				
	1202(1)	50 mm diameter	lm	274.00				
	1202(2)	65 mm diameter	lm	343.00				
	1202(3)	extra over for elbow	pc	7.00				
	1202(3)	extra over for tee	pc	3.00				
	1202(3)	extra over for tee reducer	pc	8.00				
	1202(3)	extra over for reducer	pc	7.00				
	1202(2)	80 mm diameter	lm	368.00				
	1202(3)	extra over for elbow	pc	12.00				
	1202(3)	extra over for tee	pc	2.00				
	1202(3)	extra over for tee reducer	pc	13.00				
	1202(3)	extra over for reducer	pc	3.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Sprinkler heads						
	1202(5)	Standard pendent type sprinkler head; chrome finish; with intermediate temperature rating	pc	458.00				
	1202(5)	Upright type sprinkler head; chrome finish; with intermediate temperature rating	pc	77.00				
	1202(5)	Sidewall type sprinkler head; chrome finish; with intermediate temperature rating	pc	4.00				
		Fire Hose Cabinets						
		Standard recessed fire hose cabinet assembly; including full flush or surface mounting door with aluminum for all glass place; gauge 18 steel frame and box with powder coated finishes; 40mm diameter angle type valve; 40mm x 30m long double jacket rubber						
	1202(4)	as shown and described, ref. FHC type 1	pc	21.00				
	1202(4)	as shown and described, ref. FHC type 2	pc	9.00				
		Automatic Air Vent						
	1202(4)	fixing to 100mm diameter pipe	pc	3.00				
	1202(4)	fixing to 200mm diameter pipe	pc	4.00				
		Auxiliary drain valve						
	1202(4)	50 mm diameter	pc	6.00				
	1202(4)	150 mm diameter	pc	1.00				
		Butterfly Valve		-				
	1202(4)	150 mm diameter	pc	4.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202(4)	200 mm diameter	pc	3.00				
	1202(4)	250 mm diameter	pc	2.00				
		Check Valve		-				
	1202(4)	100 mm diameter	pc	1.00				
	1202(4)	200 mm diameter	pc	1.00				
		Flexible connector		-				
	1202(4)	100 mm diameter	pc	2.00				
	1202(4)	150 mm diameter	pc	2.00				
				-				
		Floor control valve; butterfly type with electrical contacts		-				
	1202(4)	100 mm diameter	pc	2.00				
	1202(4)	150 mm diameter	pc	1.00				
	1202(4)	200 mm diameter	pc	2.00				
		Hose Box		-				
	1202(4)	150 mm diameter	pc	2.00				
		In line inspector's sight glass		-				
	1202(4)	25 mm diameter	pc	5.00				
		Inspector's test valve		-				
	1202(4)	25 mm diameter	pc	5.00				
		Landing valve (LV) including chain and cap		-				
	1202(4)	65mm diameter	pc	8.00				
		Motorized Valve		-				
	1202(4)	150 mm diameter	pc	4.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202(4)	Pump Test Header 100mm x 65mm diameter inlet connection; cast brass with plug spring check snoots; complete with plug and chains to match Fire Department requirements	pc	1.00				
		Alarm Check Valve assembly; complete with standard trimming; including pressure gauges where indicated, alarm switch; all in accordance with NFPA 13 ref. ACM-MMSP-D-TS-FPS-1202						
	1202(4)	200mm diameter	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1241(1)	ON-MZ-MFP-01; Main Fire Pump; Horizontal Split Casing Pump; electric motor driven; 238cmh @95 head MWC TDH; 96 KW; 3ph, 380V, 60Hz. Ref STN-MEP-FPS-ON-5101	set	1.00				
	1241(2)	OS-MZ-JP-01; Jockey pump with control panel; vertical in line pump; electric motor driven; 2.38CMH @102 head MWC TDH; 1.5 KW; 3ph, 380V; ref STN-MEP-FPS-ON-5101	set	1.00				
		Allow for the provision of						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202(4)	Electrical connection from floor control assembly to FACP riser including wires, conduits and all necessary accessories to complete the system	item	1.00				
	1202(4)	Drainpipe connection to sump pit	item	1.00				
		FIRE EXTINGUISHER						
		The following items to be supplied and fixed; including all necessary accessories in accordance with designer's instruction						
		Portable fire extinguisher; including supporting frames or brackets and all other necessary accessories						
	1202(9)	FEX - Dry Chemical type, ABC class, 4.54kg	pc	88.00				
	1202(7)	FEX - CO2 type, 4.54kg	pc	21.00				
	1202(9)	WFEX - Dry chemical type, ABC class, 22.68kg	pc	1.00				
	1202(7)	WFEX - CO2 type, 22.68kg	pc	1.00				
		Fire extinguisher cabinet, stainless body including 1/8" breakable glass with YS221 glass frame, push lock, supporting frames, brackets and all other necessary accessories for fixing as shown and as described						
	1202(10)	Type 1	pc	10.00				
	1202(10)	Type 2	pc	11.00				
	1202(10)	Type 3	pc	88.00				
		CLEAN GAS FIRE SUPPRESSION SYSTEM						
		Allow for the provision of						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1239(1)	Clean agent fire suppression system including pipes, fittings, control valves, devices, sensors, actuators, annunciator, wirings, conduits, control panel, clean agent tank and all other necessary accessories to complete the system						
		Location, as shown and described on plan	set	1.00				
		TUNNEL FIRE PROTECTION						
		Black Steel pipes and fittings; seamless, schedule 40; conforming to ASME B31.1 power piping code, JIS G 3454, jointing in accordance with designer's specification						
	1202(13) a8	150 mm diameter	lm	3,200.00				
	1202 (14) a8	extra over for elbow	pc	28.00				
	1202 (15) a8	extra over for tee	pc	16.00				
		Pipeworks and ancillaries including flanges and all necessary accessories and connections						
		Check Valve						
	1201 (14) a10	150 mm diameter	pc	4.00				
		Automatic Air Vent						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202 (7) a3	mounting to 150 mm diameter	pc	4.00				
		Landing valve, double nozzle including cap and chain						
	1202 (7) a3	150 mm diameter	pc	16.00				
		Tunnel Fire hose box including 4 nos of fire hose complete with hose coupling						
	1202 (7) a3	Dimension as required	pc	16.00				
		SUB-TOTAL (FIRE PROTECTION SERVICES)						
		TRANSPORT						
		Supply, delivery and installation of specified or approved equal equipment and ancillaries in compliance with the Bid documents						
		Elevators; machine room-less (MRL), complete with machines, controllers, safety devices, guide rails, counter weights, electrical/control wiring and conduits; including all necessary accessories and connections						
	1203(1)	PE-1; Passenger Elevator, 1600kg, 2stops/openings, front and rear opening, 10.99m traveling ht, 60 m/m speed,	set	1.00				
	1203(1)	PE-2; Passenger Elevator, 1600kg, 3stops/openings, front opening; 11.54m traveling ht, 60 m/m speed	set	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Escalators; complete with machines, controllers, safety devices, guide rails, electrical/control wiring and conduits; including all necessary accessories and connections						
	1233(1)	ESCA-1-2, semi-indoor type; 11.7m rise, 1550mm width, 30 deg inclination, 30 & 45 m/min changeable speed, , with post type sensor	set	2.00				
	1233(1)	ESCA-3-4, semi-indoor type; 11.25m rise, 1550mm width, 30 deg inclination, 30 & 45 m/min changeable speed, , with post type sensor	set	2.00				
	1233(1)	ESCA-5-8, indoor type; 11.54m rise, 1550mm width, 30 deg inclination, 30 & 45 m/min changeable speed, , with post type sensor	set	4.00				
		SUB-TOTAL (VERTICAL TRANSPORT)						
		PLUMBING AND SANITARY WORKS						
		Storm drainage system						
		Ductile Iron (DI) pipes and fittings; conforming to ANSI A21, A10, 11,50 and 51 class 56; jointing in accordance with designer's specification						
		To walls and chased						
	1235(3)	75mm diameter	lm	24.00				
	1235(3.1)	extra over for elbow	pc	5.00				
	1235(3.1)	extra over for tee	pc	3.00				
	1235(3)	150mm diameter	lm	12.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1235(3.1)	extra over for elbow	pc	1.00				
	1235(3.1)	extra over for tee	pc	1.00				
	1235(3.1)	extra over for tee reducer	pc	3.00				
	1235(3.1)	extra over for end cap/flanged	pc	2.00				
	1235(3)	200mm diameter	lm	6.00				
	1235(3.1)	extra over for elbow	pc	2.00				
	1235(3.1)	extra over for tee	pc	1.00				
	1235(3.1)	extra over for end cap/flanged	pc	2.00				
		To ceiling and suspended						
	1235(3)	150mm diameter	lm	6.00				
	1235(3.1)	extra over for elbow	pc	3.00				
	1235(3.1)	200mm diameter	lm	83.00				
	1235(3)	extra over for elbow	pc	6.00				
		Polyvinyl Chloride (PVC) pipes and fittings; series 1000; jointing in accordance with designer's specification						
		To ceiling and suspended						
	1235(1)	100mm diameter	lm	256.00				
	1235(1.1)	extra over for elbow	pc	17.00				
		Cast Iron (CI) pipes and fittings; jointing in accordance with designer's specification						
		To walls and chased						
	1235(2)	100mm diameter	lm	1,114.00				
	1235(2.1)	extra over for elbow	pc	67.00				
	1235(2.1)	extra over for wye	pc	114.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		To ceiling and suspended						
	1235(2)	100mm diameter	lm	1,622.00				
	1235(2.1)	extra over for elbow	pc	192.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Gate valve						
	1235(5)	75mm diameter	pc	3.00				
	1235(5)	100mm diameter	pc	3.00				
		Flexible Connector						
	1235(5)	75mm diameter	pc	3.00				
	1235(5)	100mm diameter	pc	3.00				
		Non-return Valve						
	1235(5)	75mm diameter	pc	3.00				
	1235(5)	100mm diameter	pc	3.00				
		Pressure Gauge						
	1235(5)	fixing to sump pump	pc	3.00				
		Floor Cleanout; complete with cover; setting to concrete; making around with approved grouting						
	1235(5)	100mm diameter	pc	7.00				
		Drains including adaptors and p-trap as required; setting in concrete; making good around with approved grouting						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Floor drain						
	1235(5)	100mm diameter	pc	96.00				
		Scupper drain						
	1235(5)	100mm width	pc	39.00				
		Trench drain						
	1235(5)	100 mm diameter	pc	17.00				
		Trench Grating						
	1235(6)	200mm width	lm	167.00				
	1235(6)	300mm width	lm	45.00				
		Area Drain/Catch Basin						
	1235(5)	dimension as required	pc	9.00				
		Oil Grease Trap (OGT)						
	1235(5)	ON-UL-OGT-01; Retention capacity of 50 with flow rate of 360LPM	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1201(2)	ON-UPL-WWP-01 & 02; Waste Water Sump Pump; 7 L/s @ 37 m TDH, 7.5 running load; 22.5kW connecting load; 3 phase; 380Volts; 60Hz (2W,1S)	set	1.00				
		Works to existing main storm drainage line including pipes, connections and all other necessary works						
	1235(1)	200mm diameter PVC pipes	item	1.00				
		Allow for the provision of						
	1235(5)	Roof Drain at Street Level Entrance	item	1.00				
		SEWAGE SYSTEM						
		Ductile Iron (DI) pipes and fittings; conforming to ANSI A21, A10, 11,50 and 51 class 56; jointing in accordance with designer's specification						
		To walls and chased						
	1234(3)	75mm diameter	lm	28.00				
	1234(3.1)	extra over for elbow	pc	2.00				
	1234(3)	100mm diameter	lm	12.00				
	1234(3.1)	extra over for elbow	pc	2.00				
		To ceiling and suspended						
	1234(3)	75mm diameter	lm	113.00				
	1234(3.1)	extra over for elbow	pc	8.00				
	1234(3)	100mm diameter	lm	487.00				
	1234(3.1)	extra over for elbow	pc	12.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Polyvinyl Chloride (PVC) pipes and fittings; series 1000 / SDR34, jointing in accordance with designer's specification						
		To walls and pipe chased						
	1234(1)	32mm diameter	lm	47.00				
	1234(1)	50mm diameter	lm	4.00				
	1234(1)	75mm diameter	lm	40.00				
	1234(1)	100mm diameter	lm	78.00				
	1234(1.1)	extra over for elbow	pc	26.00				
	1234(1.1)	extra over for tee reducer	pc	26.00				
		To ceiling and suspended						
	1234(1)	32mm diameter	lm	19.00				
	1234(1)	40mm diameter	lm	4.00				
	1234(1)	75mm diameter	lm	57.00				
	1234(1.1)	extra over for elbow	pc	86.00				
	1234(1)	100mm diameter	lm	955.00				
	1234(1.1)	extra over for elbow	pc	121.00				
	1234(1.1)	extra over for wye	pc	18.00				
	1234(1.1)	extra over for wye reducer	pc	66.00				
	1234(1.1)	extra over for tee	pc	19.00				
	1234(1)	150mm diameter	lm	64.00				
	1234(1.1)	extra over for elbow	pc	7.00				
	1234(1.1)	extra over for wye	pc	4.00				
	1234(1.1)	extra over for wye reducer	pc	32.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Flexible connector						
	1234(4)	100mm diameter	pc	4.00				
		Gate valve						
	1234(4)	100mm diameter	pc	5.00				
		Check valve						
	1234(4)	100mm diameter	pc	4.00				
		Drains including adaptors and p-trap as required; setting in concrete; making good around with approved grouting						
		Floor drain						
	1234(4)	75mm diameter, PVC outlet	pc	36.00				
		Shower drain						
	1234(4)	50mm diameter, PVC outlet	pc	4.00				
		Floor Cleanout; complete with cover; setting to concrete; making around with approved grouting						
	1234(4)	100mm diameter	pc	13.00				
		COP						
	1234(4)	150mm diameter	pc	4.00				
		Vent cowl						
	1234(4)	100mm diameter	pc	3.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1201(3)	ON-MZ-SP-01 & 02; 8.03 L/s @ 35 m TDH, 5.73 running load; 11.46kW connecting load; 3 phase; 380Volts; 60Hz (1W+1S), at Sewage Ejector Pit-01	set	1.00				
	1201(3)	ON-MZ-SP-03 & 04; 3.01 L/s @ 30 m TDH, 1.91 running load; 3.82kW connecting load; 3 phase; 380volts; 60Hz (1W+1S) at Sewage Ejector Pit-02	set	1.00				
		Sewage Holding Tank, complete with pilings, fittings, flanges and all necessary accessories and connection to complete the system						
	1238(4)	Sewage ejector tank 1 ; stainless steel, dimensions: 2m x 2m X 2m ; (L x B x H) Capacity: 7.5m3	set	1.00				
	1238(4)	Sewage ejector tank 2 ; stainless steel, dimensions: 2m x 2m X 2m ; (L x B x H) Capacity: 7.5m3	set	1.00				
		Works to existing main sewer line including pipes, connections and all other necessary works						
	1234(1)	150mm diameter PVC	item	1.00				
		Allow for the provision of						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1236(1)	Sewage Treatment Plant, capacity as required ref drawing STN-MEP-PLD-ON-4307	item	1.00				
		WATER SUPPLY SYSTEM						
		Excavating trenches, backfilling with selected materials, disposal of surplus excavated materials offsite, and making good all works disturbed						
		for pipes less than 200mm diameter PPrC	lm	18.00				
		Bedding of pipes; including surround of pipes as necessary						
		for pipes less than 200mm diameter PPrC	lm	18.00				
		Polypropylene (PPrC) pipes and fittings, PN20, jointing in accordance with designer's specification						
		In trenches						
	1237(2)	20mm diameter	lm	4.00				
	1237(2)	32mm diameter	lm	4.00				
	1237(2)	100mm diameter	lm	10.00				
	1237(2.1)	extra over for elbow	pc	4.00				
	1237(2.1)	extra over for tee	pc	3.00				
		To walls and chased						
	1237(2)	15mm diameter	lm	48.00				
	1237(2)	20mm diameter	lm	126.00				
	1237(2)	25mm diameter	lm	27.00				
	1237(2)	32mm diameter	lm	32.00				
	1237(2)	75mmdiameter	lm	12.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1237(2.1)	extra over for tee reducer	pc	5.00				
	1237(2)	100mmdiameter	lm	18.00				
		To ceiling and suspended						
	1237(2)	15mm diameter	lm	14.00				
	1237(2)	20mm diameter	lm	275.00				
	1237(2)	25mm diameter	lm	77.00				
	1237(2)	32mm diameter	lm	420.00				
	1237(2)	40mm diameter	lm	84.00				
	1237(2)	50mm diameter	lm	11.00				
	1237(2)	65mmdiameter	lm	49.00				
	1237(2.1)	extra over for tee	pc	1.00				
	1237(2.1)	extra over for tee reducer	pc	7.00				
	1237(2.1)	extra over for reducer	pc	6.00				
	1237(2)	75mm diameter	lm	517.00				
	1237(2.1)	extra over for elbow	pc	12.00				
	1237(2.1)	extra over for tee reducer	pc	12.00				
	1237(2.1)	extra over for tee	pc	1.00				
	1237(2.1)	extra over for reducer	pc	5.00				
	1237(2)	100mmdiameter	lm	384.00				
	1237(2.1)	extra over for elbow	pc	6.00				
		Galvanized Iron (GI) pipes and fittings, ERW, schedule 40, jointing in accordance with designer's specification						
		To floor						
	1237(1)	25mmdiameter	lm	2.00				
	1237(1)	40mm diameter	lm	11.00				
	1237(1)	80mm diameter	lm	20.00				
	1237(1)	100mm diameter	lm	21.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1237(1.1)	extra over for elbow	pc	3.00				
	1237(1)	150mm diameter	lm	8.00				
	1237(1.1)	extra over for elbow	pc	2.00				
	1237(1.1)	extra over for tee	pc	2.00				
	1237(1.1)	extra over for tee reducer	pc	1.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Ball Valve						
	1237(4)	20mm diameter	pc	2.00				
	1237(4)	25mm diameter	pc	8.00				
	1237(4)	32mm diameter	pc	5.00				
	1237(4)	40mm diameter	pc	9.00				
	1237(4)	50mm diameter	pc	1.00				
	1237(4)	65mm diameter	pc	2.00				
		Bip tap (BT)						
	1237(4)	15mm diameter	pc	13.00				
		Butterfly Valve						
	1237(4)	25mm diameter	pc	2.00				
	1237(4)	40mm diameter	pc	2.00				
	1237(4)	65mm diameter	pc	2.00				
	1237(4)	75mm diameter	pc	1.00				
	1237(4)	100mm diameter	pc	3.00				
		Check Valve						
	1237(4)	100mm diameter	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Sub-meter						
	1237(4)	100mm diameter	pc	6.00				
		Water hammer arrester						
	1237(4)	20mm diameter	pc	14.00				
	1237(4)	25mm diameter	pc	4.00				
		Water meter						
	1237(4)	100mm diameter	pc	1.00				
		Wye strainer						
	1237(4)	40mm diameter	pc	2.00				
	1237(4)	100mm diameter	pc	3.00				
	1237(4)	150mm diameter	pc	2.00				
		The following items to be supplied and fixed; including taking, delivery on site, unloading or assisting to unload, unpacking, returning packing, storing, all sundry materials for fixing, be responsible for the safe custody of						
		Domestic water Tank; Stainless steel						
	1238(1)	50 cum capacity	set	2.00				
		Fire water Tank; stainless steel						
	1238(3)	98cum capacity	set	2.00				
		Make-up water Tank; stainless steel						
	1238(2)	45cum capacity	set	2.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1201(1)	ON-MZ-DWP-01 & 02; 7.3 L/s hydro-pneumatic pump @ 30 m TDH; 5.73kW running load; 11.46kW connecting load; 3Ph; 380V; 60Hz; including 200L pressure vessel w/ stainless steel tank	set	1.00				
	1201(1)	ON-MZ-MWP-01 & 02; 0.7 L/s hydro-pneumatic pump @ 40 m TDH; 0.8kW running load; 1.6kW connecting load; 3Ph; 380V; 60Hz; including 200L pressure vessel w/ stainless steel tank	set	1.00				
		Works to existing main water line including pipes, connections and all other necessary works						
	1237(2)	100mm diameter PPRC pipes	item	1.00				
		HOT WATER SUPPLY SYSTEM						
		Polypropylene (PPrC) pipes and fittings, PN20, jointing in accordance with designer's specification						
		To walls and chased						
	1237(2)	15mm diameter	lm	7.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1237(2)	20mm diameter	lm	24.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Gate valve						
	1237(4)	20mm diameter	pc	7.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Water heater; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1237(5)	Electric water heater; 25L capacity; horizontal wall mounted, 2kW; 3ph; 380V; 60Hz, ref SL no.1	pc	2.00				
	1237(5)	Electric water heater; 15L capacity; horizontal wall mounted, 1.5kW; 3ph; 380V; 60Hz, ref SL no.2 to 6	pc	5.00				
		TUNNEL DRAINAGE SYSTEM						
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						

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 STATION E&M WORKS - ORTIGAS NORTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1201(2)	Tunnel Main Sump/ OS -TL-SP-01/02; 1.88 L/S @84m; 2900 rpm; 2kW; 3ph, 380V, 60 Hz (1W & 1S)	set	1.00				
		Allow for the provision of						
		Tunnel drainage system pumps including, pipes fittings, valves, pumps and all other necessary accessories to complete the system	item	1.00				
		SUB-TOTAL (PLUMBING SERVICES)						
		GRAND TOTAL - STATION E&M (ORTIGAS NORTH)						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		BUILDER'S WORKS IN CONNECTION TO SERVICES						
		Builder's work in connection with services	Item	1.00				
		[SOME SAMPLE OF COMMON BUILDER'S WORKS, TO BE FURTHER DISCUSSED WITH IF REQUIRED]						
		Allow for forming openings, chases, providing pipe sleeves, fabric mesh and/or additional reinforcement, etc., in concrete as required by mechanical and electrical pipeworks and conduits.						
		Allow for sealing openings for mechanical and electrical works in floor, wall and ceiling with approved firestop sealing compound, complete with all necessary calcium silicate board panel and hot dipped galvanized mild steel platform and supports to the Architect's approval.						
		Allow for sealing openings for mechanical and electrical works in floor, wall and ceiling with approved waterstop and all necessary sealing compound to the Architect's approval.						
		Allow for sealing openings in ducts around pipes, etc., with cement grout or other equal and approved sealing compound to Authorities' and Architect's approval.						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Allow for builder's work in connection with mechanical and electrical services installations (i.e. plinths, curbs, concrete/steel beam support, lift separator beam and the like).						
		LIFT HOISTING HOOK						
		Lift hoisting hook fixed in position to the approval of Architect / Engineer.						
		FIREPROOFING AND SLAB OVER AT TAS, SCV, IT CABLE DUCT AND THE LIKE						
		Expanded galvanized steel mesh anchored to wall complete with approved finishes and all necessary fixing accessories; all in accordance to drawings and to Architect's approval.						
		SUB-TOTAL (BUILDER'S WORKS)						
		AIR-CONDITIONING AND MECHANICAL VENTILATION						
		CONDENSATE DRAIN SYSTEM						
		Allowance for Galvanized steel pipes and fittings including approved insulation, and all other necessary accessories to complete the system						
	1209(1)	from FCU/AHU to nearest plumbing stub out	item	1.00				
		REFRIGERANT PIPING SYSTEM						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Galvanized steel pipes and fittings; ERW; ASTM A-53, heavy grade; jointing in accordance with the designer's specification						
	1209(1)	250mm diameter	lm	260.00				
	1209(1.1)	extra over for elbow	pc	24.00				
	1209(1)	300mm diameter	lm	104.00				
	1209(1.1)	extra over for elbow	pc	38.00				
	1209(1.1)	extra over for tee reducer	pc	24.00				
	1209(1.1)	extra over for reducer	pc	2.00				
	1209(1.1)	extra over for end cap/flanged	pc	2.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Automatic Air Vent (AAV)						
	1210(1)	mounting to 250mm diameter Galvanized steel pipes	pc	4.00				
	1210(1)	mounting to 300mm diameter Galvanized steel pipes	pc	2.00				
		Automatic Tube Cleaner (ATC)						
	1210(1)	mounting to 250mm diameter Galvanized steel pipes,	pc	2.00				
		Balancing Valve						
	1210(1)	250mm diameter	pc	2.00				
	1210(1)	300mm diameter	pc	1.00				
		Butterfly valve						
	1210(1)	250mm diameter	pc	14.00				
	1210(1)	300mm diameter	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Drain Valve						
	1210(1)	dimension as required	pc	5.00				
		Flexible connector						
	1210(1)	250mm diameter	pc	10.00				
		Float valve						
	1210(1)	50mm diameter	pc	2.00				
		Flow switch (FS)						
	1210(1)	mounting to 250mm diameter galvanized steel pipes	pc	2.00				
		Gate valves						
	1210(1)	50mm diameter	pc	2.00				
		Isolation Valve						
	1210(1)	250mm diameter	pc	2.00				
		Motorized butterfly valve		-				
	1210(1)	250mm diameter	pc	6.00				
		Non-Return Valve						
	1210(1)	250mm diameter	pc	3.00				
		Pressure gauges (PG); complete with cock						
	1210(1)	mounting to 250mm diameter Galvanized steel pipes	pc	10.00				
		Temperature Gauge (TG)						
	1210(1)	mounting to 250mm diameter Galvanized steel pipes	pc	4.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Test Plug (TP)						
	1210(1)	mounting to 250mm diameter Galvanized steel pipes	pc	10.00				
		Wye Strainer		-				
	1210(1)	250mm diameter	pc	4.00				
	1210(1)	300mm diameter	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps, complete with driving motor; all necessary accessories and connections; electrical/control wirings, conduit and controls; complete as in the equipment schedule and as described						
	1218(1)	OS-MZ-CDWP-01/02/03; condenser water pump; end-suction type, 333.51 LPM at 175 kPa; 15.5kW motor, 380V/3ph/60Hz (2W+1S), ref STN-MEP-VAC-OS-5101	set	3.00				
		Chemical pot feeder; including all necessary accessories and connections, electrical/control wiring, conduits and controls; complete as in the equipment schedule and as described						
	1210(1)	capacity as required	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Cooling tower, complete with driving motor; all necessary accessories and connections; electrical/control wirings, conduit and controls; complete as in the equipment schedule and as described						
	1219(1)	OS-GL-CT-01/02; 3334 LPM; counter flow type with vertical discharge, axial type fan ; with anti vibration & chemical treatment; belt and pulley driven, 1163kW heat rejection; 18.7kW motor rating; 380V/3ph/60Hz, ref STN-MEP-VAC-OS-5101	set	2.00				
		Allow for the following						
		Make-up Water tank including all necessary pipeworks and ancillaries and as shown in schematic diagram.	item	1.00				
		Chilled Water System						
		Galvanized steel pipes and fittings; ERW; ASTM A-53, heavy grade; jointing in accordance with the designer's specification						
		To walls and chased						
	1209(1)	25mm diameter	lm	680.00				
	1209(1)	32mm diameter	lm	465.00				
	1209(1)	40mm diameter	lm	223.00				
	1209(1)	50mm diameter	lm	114.00				
	1209(1)	65mm diameter	lm	131.00				
	1209(1)	100mm diameter	lm	178.00				
	1209(1.1)	extra over for elbow	pc	13.00				
	1209(1)	125mm diameter	lm	316.00				
	1209(1.1)	extra over for elbow	pc	38.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Automatic Air Vent (AAV)						
	1210(1)	mounting to 80mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 125mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 200mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 300mm diameter galvanized steel pipes	pc	4.00				
		Balancing Valve						
	1210(1)	40mm diameter	pc	3.00				
	1210(1)	50mm diameter	pc	1.00				
	1210(1)	100mm diameter	pc	2.00				
	1210(1)	125mm diameter	pc	4.00				
	1210(1)	200mm diameter	pc	4.00				
		BTU meter						
	1210(1)	mounting to 32mm diameter galvanized steel pipes	pc	1.00				
		Butterfly valve						
	1210(1)	40mm diameter	pc	6.00				
	1210(1)	50mm diameter	pc	2.00				
	1210(1)	100mm diameter	pc	6.00				
	1210(1)	125mm diameter	pc	12.00				
	1210(1)	200mm diameter	pc	17.00				
	1210(1)	250mm diameter	pc	4.00				
		Drain Valve						
	1210(1)	dimension as required	pc	11.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Flexible connector						
	1210(1)	40mm diameter	pc	6.00				
	1210(1)	50mm diameter	pc	2.00				
	1210(1)	100mm diameter	pc	8.00				
	1210(1)	200mm diameter	pc	14.00				
	1210(1)	250mm diameter	pc	4.00				
		Flow Switch (FS)						
	1210(1)	mounting to 100mm diameter galvanized steel pipes	pc	2.00				
	1210(1)	mounting to 200mm diameter galvanized steel pipes	pc	4.00				
		Motorized butterfly valve						
	1210(1)	200mm diameter	pc	1.00				
	1210(1)	250mm diameter	pc	2.00				
		Non-Return Valve (NRV)						
	1210(1)	100mm diameter	pc	2.00				
	1210(1)	200mm diameter	pc	2.00				
	1210(1)	250mm diameter	pc	3.00				
		Pressure gauges (PG); complete with cock						
	1210(1)	mounting to 80mm diameter galvanized steel pipes	pc	8.00				
	1210(1)	mounting to 250mm diameter galvanized steel pipes	pc	10.00				
		Temperature Gauge (TG)						
	1210(1)	mounting to 100mm diameter galvanized steel pipes	pc	4.00				
	1210(1)	mounting to 200mm diameter galvanized steel pipes	pc	4.00				
		Test Plug (TP)						
	1210(1)	mounting to 200mm diameter galvanized steel pipes	pc	18.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Wye Strainer		-				
	1210(1)	100mm diameter	pc	2.00				
	1210(1)	200mm diameter	pc	8.00				
	1210(1)	250mm diameter	pc	3.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps, complete with driving motor; all necessary accessories and connections; electrical/control wirings, conduit and controls; complete as in the equipment schedule and as described						
	1217(1)	OS-MZ-CHWP-01-03; WCC Chilled Water Pump; end suction type; 2702.84 LPM at 350 kPA PD; 23kW motor rating complete with VFD; 380V/3ph/60Hz; ref STN-MEP-VAC-OS-5101	set	3.00				
	1217(1)	OS-CL-CHWP-01-02; ACC Chilled water pump; end suction type; 267.378 LPM at 275 kPA PD; 2.2kW motor rating; 380V/3ph/60Hz; ref STN-MEP-VAC-OS-5101	set	2.00				
		Chiller, complete with driving motor; all necessary accessories and connections; electrical/control wirings, conduit and controls; complete as in the equipment schedule and as described						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Water Cooled Chiller,						
	1221(1)	OS-MZ-WCC-01/02; Water-cooled chiller; 930kW cooling capacity; 2703 LPM; screw type with VSD drive; 172kW motor rating; including anti vibration, and leak detection device, 1kw/RT efficiency; 380V/3ph/60Hz; ref STN-MEP-VAC-OS-5101	set	2.00				
		Air Cooled Chiller						
	1220(1)	OS-GL-ACC-01/02; Air-cooled chiller; 85kW cooling capacity; 247 LPM; scroll type; 31.4kW motor rating with leak detection device; 1.3kw/RT eff.; 380V/3ph/60Hz, ref STN-MEP-VAC-OS- 5101	set	2.00				
		Expansion tanks; including all necessary pipeworks, insulation, cladding, valves, painting, accessories and connections; complete as in the equipment schedule and as described						
	1210(5)	OS-MZ-EXP-01, 35/7 C temp.; 0.5m3 expansion volume; 250kPa fill pressure, 1.5kW motor, 380V/3ph/60Hz; ref STN-MEP-VAC-OS-5104	set	1.00				
	1210(5)	OS-CL-EXP-01, 35/7 C temp.; 0.1m3 expansion volume; 250kPa fill pressure, 1.1kW motor, 380V/3ph/60Hz; ref STN-MEP-VAC-OS-5104	set	1.00				
		Air separator; including all necessary accessories and connections, complete as in the equipment schedule and as described						
	1210(4)	OS-MZ-AS-01; 2703 lpm capacity, PN16, 7 deg C, ref STN-MEP-VAC-OS-5104	pc	1.00				
	1210(4)	OS-CL-AS-01; 267 lpm capacity, PN16, 7 deg C, ref STN-MEP-VAC-OS-5104	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Chemical pot feeder; including all necessary accessories and connections, electrical/control wiring, conduits and controls; complete as in the equipment schedule and as described						
	1210(5)	capacity as required	set	1.00				
		Mechanical Ventilation System						
		Galvanized steel sheet rectangular ducts and fittings; conforming to SMACNA HVAC Duct Construction Standards						
	1211(2)	Gauge 26	m2	856.00				
	1211(2)	Gauge 24	m2	2,438.00				
	1211(2)	Gauge 22	m2	562.00				
	1211(2)	Gauge 20	m2	45.00				
		Galvanized steel sheet ductwork ancillaries including flexible connections and flanges; conforming to the MPF Technical Specifications specified in 1211 Ductworks and Accessories						
		Exhaust Air Louver with plenum						
	1211(6)	OS-ST-EAL-01, 2000X5000	pc	1.00				
	1211(6)	OS-ST-EAL-02, 3000X3300	pc	1.00				
		Fresh Air Louver						
	1211(6)	OS-ST-FAL-01, 3000X4500	pc	1.00				
	1211(6)	OS-ST-FAL-02, 3000X3300	pc	1.00				
	1211(6)	OS-ST-FAL-03, 3000X1000	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Exhaust Air Grille						
	1211(6)	EAG 1A-1F; bar grille; 400mm x 400mm	pc	6.00				
	1211(6)	EAG 2; bar grille; 200mm x 200mm	pc	1.00				
	1211(6)	EAG 3; bar grille; 200mm x 200mm	pc	1.00				
	1211(6)	EAG 4A-4B; bar grille; 400mm x 300mm	pc	2.00				
	1211(6)	EAG 5; bar grille; 300mm x 300mm	pc	1.00				
	1211(6)	EAG 6A-6D; bar grille; 400mm x 400mm	pc	4.00				
	1211(6)	EAG 7A-7O; bar grille; 400mm x 300mm	pc	15.00				
	1211(6)	EAG 8A-8F; bar grille; 400mm x 400mm	pc	6.00				
	1211(6)	EAG 9; bar grille; 300mm x 300mm	pc	1.00				
	1211(6)	EAG 10; bar grille; 300mm x 300mm	pc	1.00				
	1211(6)	EAG 11; bar grille; 400mm x 400mm	pc	1.00				
	1211(6)	EAG 12A-12F; bar grille; 400mm x 300mm	pc	6.00				
	1211(6)	EAG 13A-13D; bar grille; 400mm x 300mm	pc	4.00				
	1211(6)	EAG 14; bar grille; 200mm x 200mm	pc	1.00				
	1211(6)	EAG 15; bar grille; 200mm x 200mm	pc	1.00				
	1211(6)	EAG 16A-16E; bar grille; 150mm x 150mm	pc	5.00				
	1211(6)	EAG 17A-17F; bar grille; 150mm x 150mm	pc	6.00				
	1211(6)	EAG 18A-18E; bar grille; 400mm x 300mm	pc	5.00				
	1211(6)	EAG 19A-19X; bar grille; 150mm x 150mm	pc	24.00				
	1211(6)	EAG 20; bar grille; 200mm x 150mm	pc	1.00				
	1211(6)	EAG 21; bar grille; 200mm x 150mm	pc	1.00				
	1211(6)	EAG 22-23; bar grille; 300mm x 200mm	pc	2.00				
	1211(6)	EAG 24-26; bar grille; 200mm x 200mm	pc	3.00				
	1211(6)	EAG 27-30; bar grille; 150mm x 150mm	pc	4.00				
	1211(6)	EAG 31-32; bar grille; 200mm x 200mm	pc	2.00				
	1211(6)	EAG 33-35; bar grille; 300mm x 200mm	pc	3.00				
	1211(6)	EAG 36-37; bar grille; 200mm x 200mm	pc	2.00				
		Fresh Air Grille						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	FAG 1A-1F; Bar Grille; 400mm x 400mm	pc	6.00				
	1211(6)	FAG 2A-2B; Bar Grille; 400mm x 300mm	pc	2.00				
	1211(6)	FAG 3; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	FAG 4A-4D; Bar Grille; 400mm x 400mm	pc	4.00				
	1211(6)	FAG 5; Bar Grille; 1500mm x 900mm	pc	1.00				
	1211(6)	FAG 6A-6O; Bar Grille; 400mm x 300mm	pc	15.00				
	1211(6)	FAG 7; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	FAG 8; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	FAG 9; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 10; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 11; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	FAG 12; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	FAG 13; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	FAG 14; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	FAG 15; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	FAG 16; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	FAG 17; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	FAG 18; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	FAG 19; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	FAG 20A-20F; Bar Grille; 400mm x 300mm	pc	6.00				
	1211(6)	FAG 21A-21C; Bar Grille; 400mm x 300mm	pc	3.00				
	1211(6)	FAG 22; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 23; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 24; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	FAG 25A-25B; Bar Grille; 300mm x 200mm	pc	2.00				
	1211(6)	FAG 26; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 27; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 28; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 29; Bar Grille; 150mm x 150mm	pc	1.00				
	1211(6)	FAG 30; Bar Grille; 150mm x 150mm	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	FAG 31A-31E; Bar Grille; 400mm x 300mm	pc	5.00				
	1211(6)	FAG 32; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	FAG 33; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	FAG 34; Bar Grille; 400mm x 200mm	pc	1.00				
	1211(6)	FAG 35; Bar Grille; 400mm x 200mm	pc	1.00				
	1211(6)	FAG 36; Bar Grille; 400mm x 200mm	pc	1.00				
	1211(6)	FAG 37; Bar Grille; 200mm x 150mm	pc	1.00				
	1211(6)	FAG 38; Bar Grille; 200mm x 150mm	pc	1.00				
	1211(6)	FAG 39; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	FAG 40; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	FAG 41; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 42; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 43; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	FAG 44; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	FAG 45; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	FAG 46; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	FAG 47; Bar Grille; 200mm x 200mm	pc	1.00				
		Volume damper						
	1211(5)	150mm x 100mm	pc	5.00				
	1211(5)	150mm x 150mm	pc	1.00				
	1211(5)	200mm x 150mm	pc	1.00				
	1211(5)	200mm x 200mm	pc	10.00				
	1211(5)	300mm x 200mm	pc	6.00				
	1211(5)	300mm x 300mm	pc	7.00				
	1211(5)	400mm x 150mm	pc	1.00				
	1211(5)	400mm x 200mm	pc	1.00				
	1211(5)	400mm x 300mm	pc	25.00				
	1211(5)	400mm x 400mm	pc	18.00				
	1211(5)	600mm x 600mm	pc	1.00				

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5B
 STATION E&M WORKS - ORTIGAS SOUTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(5)	1500mm x 900mm	pc	7.00				
	1211(5)	2250mm x 600mm	pc	1.00				
		Motorized smoke and fire damper						
	1211(5)	MSFD-01; 300mm x 250mm	pc	1.00				
	1211(5)	MSFD-03-04; 400mm x 300mm	pc	2.00				
	1211(5)	MSFD-08; 400mm x 300mm	pc	1.00				
	1211(5)	MSFD-47-48; 400mm x 300mm	pc	2.00				
	1211(5)	MSFD-51-52; 400mm x 300mm	pc	2.00				
	1211(5)	MSFD-55-56; 900mm x 600mm	pc	2.00				
	1211(5)	MSFD-57; 600mm x 500mm	pc	1.00				
	1211(5)	MSFD-58-59; 900mm x 600mm	pc	2.00				
	1211(5)	MSFD-60; 600mm x 500mm	pc	1.00				
	1211(5)	MSFD-63A/63B; 750mm x 700mm	pc	2.00				
	1211(5)	MSFD-63A/63B; 1000mm x 300mm	pc	2.00				
	1211(5)	MSFD-66-70; 500mm x 500mm	pc	5.00				
	1211(5)	MSFD-74-76; 300mm x 300mm	pc	3.00				
	1211(5)	MSFD-81-82; 1000mm x 400mm	pc	2.00				
		Fire Damper						
	1211(5)	200mm x 200mm	pc	24.00				
	1211(5)	250mm x 250mm	pc	5.00				
	1211(5)	300mm x 200mm	pc	4.00				
	1211(5)	300mm x 300mm	pc	14.00				
	1211(5)	350mm x 350mm	pc	6.00				
	1211(5)	500mm x 150mm	pc	1.00				
	1211(5)	500mm x 500mm	pc	2.00				
		Non-Return Damper						
	1211(5)	250mm x 250mm	pc	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(5)	300mm x 300mm	pc	1.00				
	1211(5)	350mm x 350mm	pc	1.00				
	1211(5)	400mm x 300mm	pc	5.00				
	1211(5)	500mm x 500mm	pc	1.00				
	1211(5)	1000mm x 400mm	pc	1.00				
	1211(5)	1000mm x 600mm	pc	1.00				
	1211(5)	1250mm x 1250mm	pc	2.00				
	1211(5)	1500mm x 600mm	pc	1.00				
	1211(5)	1500mm x 900mm	pc	1.00				
		Pressure relief damper						
	1211(5)	PRD-01, 500mmx300mm @AFC Room	pc	1.00				
	1211(5)	PRD-02, 500mmx800m @Electrical Supply Room	pc	1.00				
	1211(5)	PRD-03, 500mmx800mm@Generator Room	pc	1.00				
	1211(5)	PRD-04, 400mmx300mm @SER	pc	1.00				
	1211(5)	PRD-05, 500mmx800mm@SSS	pc	1.00				
	1211(5)	PRD-06, 400mmx300mm @SUR	pc	1.00				
	1211(5)	PRD-07, 500mmx300mm @TER Room	pc	1.00				
	1211(5)	PRD-09, 500mmx300mm @TUR Room	pc	1.00				
	1211(5)	PRD-10, 500mmx500mm @UPS Room	pc	1.00				
	1211(5)	PRD-11, 400mmx300mm @Telecom Room 1	pc	1.00				
	1211(5)	PRD-15, 400mmx300mm @Telecom Room 2	pc	1.00				
	1211(5)	PRD-16, 400mmx300mm @Telecom Room 3	pc	1.00				
	1211(5)	PRD-17, 400mmx300mm @Telecom Room 4	pc	1.00				
		Plenum box						
	1211(6)	2400mm x 600mm x 1200mm	pc	4.00				
	1211(6)	2300mm x 2000mm x 2000mm	pc	2.00				
		Sound Attenuator						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	SA-03; 6560 cmh; 2100mm x 700mm x 900mm; 64Pa; downstream	pc	1.00				
	1211(6)	SA-04; 6560 cmh; 2100mm x 700mm x 900mm; 64Pa; upstream	pc	1.00				
	1211(6)	SA-05; 4020 cmh; 900mm x 300mm x 400mm; 32Pa; downstream	pc	1.00				
	1211(6)	SA-06; 4020 cmh; 900mm x 300mm x 400mm; 32Pa; upstream	pc	1.00				
	1211(6)	SA-07; 3460 cmh; 900mm x 300mm x 400mm; 32Pa; downstream	pc	1.00				
	1211(6)	SA-08; 3460 cmh; 900mm x 300mm x 400mm; 32Pa; upstream	pc	1.00				
	1211(6)	SA-31; 6560 cmh; 600mm x 600mm x 500mm; 26Pa; downstream	pc	1.00				
	1211(6)	SA-32; 6560 cmh; 2100mm x 600mm x 500mm; 26Pa; downstream	pc	1.00				
	1211(6)	SA-33; 4020 cmh; 1500mm x 600mm x 500mm; 17Pa; upstream	pc	1.00				
	1211(6)	SA-34; 4020 cmh; 1500mm x 600mm x 500mm; 8Pa; upstream	pc	1.00				
	1211(6)	SA-35; 14125 cmh; 2100mm x 900mm x 800mm; 17Pa; upstream	pc	1.00				
	1211(6)	SA-36; 14125 cmh; 2100mm x 900mm x 800mm; 2Pa; downstream	pc	1.00				
	1211(6)	SA-37; 14125 cmh; 2100mm x 900mm x 800mm; 17Pa; upstream	pc	1.00				
	1211(6)	SA-38; 14125 cmh; 2100mm x 900mm x 800mm; 2Pa; downstream	pc	1.00				
	1211(6)	SA-39; 17940 cmh; 2100mm x 750mm x 700mm; 57Pa; upstream	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	SA-40; 17940 cmh; 2100mm x 750mm x 700mm; 40Pa; downstream	pc	1.00				
	1211(6)	SA-45A-45B; 18720 cmh; 900mm x 750mm x 700mm; 57Pa; downstream	pc	2.00				
	1211(6)	SA-46A-46B; 18720 cmh; 900mm x 750mm x 700mm; 57Pa; upstream	pc	2.00				
	1211(6)	SA-47A-47B; 18720 cmh; 900mm x 750mm x 700mm; 57Pa; downstream	pc	2.00				
	1211(6)	SA-48A-48B; 18720 cmh; 900mm x 750mm x 700mm; 57Pa; upstream	pc	2.00				
	1211(6)	SA-49A-49B; 18720 cmh; 1500mm x 750mm x 700mm; 57Pa; downstream	pc	2.00				
	1211(6)	SA-50A-50B; 18720 cmh; 1500mm x 750mm x 700mm; 57Pa; upstream	pc	2.00				
	1211(6)	SA-51; 18720 cmh; 1500mm x 750mm x 700mm; 57Pa; upstream	pc	1.00				
	1211(6)	SA-52; 18720 cmh; 1500mm x 750mm x 700mm; 57Pa; downstream	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Ventilation fans; including all accessories, controls, wirings, conduits, vibration isolator, backdraft damper and all other connections needed to complete the system						
	1216(3)	OS-CL-EAF-1A/1B; 15900CMH; 350 Pa; centrifugal type; 0.37kW; 220V/1ph/60Hz with VFD, fire rated @ 250°C/2hrs	set	2.00				

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 STATION E&M WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1216(3)	OS-CL-EAF-02; 6,680CMH; 300 Pa; centrifugal type; 1.3kW; 380V/3ph/60Hz	set	1.00				
	1216(3)	OS-CL-EAF-03; 3980CMH; 220 Pa; centrifugal type; 0.75kW; 220V/1ph/60Hz	set	1.00				
	1216(2)	OS-CL-EAF-04; 900CMH; 280 Pa; axial type; 0.37kW; 220V/1ph/60Hz	set	1.00				
	1216(3)	OS-CL-EAF-05; 1070CMH; 660 Pa; centrifugal type; 0.55kW; 220V/1ph/60Hz	set	1.00				
	1216(2)	OS-CL-EAF-06; 240CMH; 270 Pa; axial type; 0.37kW; 220V/1ph/60Hz; with hydrogen sensor; spark/explosion proof	set	1.00				
	1216(3)	OS-CL-EAF-07; 4270CMH; 650 Pa; centrifugal type; 2kW; 380V/3ph/60Hz; with VFD and Vibrator isolator	set	1.00				
	1216(2)	OS-CL-EAF-08; 3,380CMH; 350 Pa; axial type; 0.8kW; 220V/1ph/60Hz; with VFD and vibrator isolator	set	1.00				
	1216(2)	OS-CL-EAF-09; 1,750CMH; 350 Pa; axial type; 0.55kW; 220V/1ph/60Hz; with VFD and vibrator isolator	set	1.00				
	1216(3)	OS-MZ-EAF-1A/1B; 14,335CMH; 1,050 Pa; centrifugal type; 8kW; 380V/3ph/60Hz; with VFD	set	2.00				
	1216(3)	OS-MZ-EAF-2; 17,930CMH; 770 Pa; centrifugal type; 7.5kW; 380V/3ph/60Hz; with VFD and Vibrator isolator	set	1.00				
	1216(3)	OS-MZ-EAF-03; 1840CMH; 750 Pa; centrifugal type; 0.9kW; 220V/1ph/60Hz; with VFD and Vibrator isolator	set	1.00				
	1216(3)	OS-MZ-EAF-3A/3B; 1,200CMH; 750Pa; Centrifugal type; 0.75kW; 220V/1ph/60Hz; with VFD and vibrator isolator	set	2.00				
	1216(2)	OS-MZ-EAF-4A/4B; 6000CMH; 300 Pa; Axial type; 1.5kW; 380V/3ph/60Hz; with VFD	set	2.00				
	1216(3)	OS-CL-FAF-1A/1B; 1,590CMH; 350 Pa; Centrifugal type; 0.37kW; 220V/1ph/60Hz; with VFD	set	2.00				

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 STATION E&M WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Volume damper						
	1211(5)	150mm x 100mm	pc	5.00				
	1211(5)	300mm x 200mm	pc	4.00				
	1211(5)	300mm x 300mm	pc	2.00				
	1211(5)	400mm x 200mm	pc	2.00				
	1211(5)	400mm x 300mm	pc	2.00				
	1211(5)	400mm x 400mm	pc	19.00				
	1211(5)	600mm x 600mm	pc	24.00				
	1211(5)	600mm x 300mm	pc	24.00				
	1211(5)	1400mm x 600mm	pc	24.00				
	1211(5)	1500mm x 600mm	pc	4.00				
		Fire Damper						
	1211(5)	500mm x 500mm	pc	2.00				
	1211(5)	600mm x 500mm	pc	1.00				
	1211(5)	1500mm x 600mm	pc	1.00				
		Non-Return Damper						
	1211(5)	750mm x 600mm	pc	1.00				
	1211(5)	900mm x 900mm	pc	2.00				
	1211(5)	1200mm x 850mm	pc	1.00				
		Smoke Exhaust Grilles						
	1211(6)	SEG 1; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	SEG 2; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	SEG 3; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	SEG 4; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	SEG 5; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	SEG 6; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 7; Bar Grille; 300mm x 300mm	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	SEG 8; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 9; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 10; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 11; Bar Grille; 600mm x 600mm	pc	1.00				
	1211(6)	SEG 12; Bar Grille; 1200mm x 600mm	pc	1.00				
	1211(6)	SEG 13; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	SEG 14; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	SEG 15; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 16; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 17; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 18; Bar Grille; 1200mm x 600mm	pc	1.00				
	1211(6)	SEG 19A-19D; Bar Grille; 150mm x 100mm	pc	4.00				
	1211(6)	SEG 20; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	SEG 21; Bar Grille; 600mm x 600mm	pc	1.00				
	1211(6)	SEG 22; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	SEG 23A-23B; Bar Grille; 400mm x 400mm	pc	2.00				
	1211(6)	SEG 24; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 25; Bar Grille; 300mm x 300mm	pc	1.00				
	1211(6)	SEG 26; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 27; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 28; Bar Grille; 400mm x 400mm	pc	1.00				
	1211(6)	SEG 29; Bar Grille; 400mm x 200mm	pc	1.00				
	1211(6)	SEG 30; Bar Grille; 400mm x 200mm	pc	1.00				
	1211(6)	SEG 31; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	SEG 32; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	SEG 33; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	SEG 34; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	SEG 35; Bar Grille; 400mm x 200mm	pc	1.00				
	1211(6)	SEG 36; Bar Grille; 400mm x 200mm	pc	1.00				
	1211(6)	SEG 37; Bar Grille; 400mm x 200mm	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(6)	SEG 38A-38P; bar grille; 1000mm x 150mm	pc	16.00				
	1211(6)	SEG 38A-38P; bar grille; 1000mm x 150mm	pc	16.00				
		Return Air Grilles						
	1211(6)	1400mm x 600mm	pc	24.00				
	1211(6)	600mm x 600mm	pc	92.00				
		Motorized Smoke Fire Damper						
	1211(5)	MSFD-15-19, 600X300	pc	5.00				
	1211(5)	MSFD-20-22,300X200	pc	3.00				
	1211(5)	MSFD-24/26,600X500	pc	2.00				
	1211(5)	MSFD-27-28,900X450	pc	2.00				
	1211(5)	MSFD-29, 300X350	pc	1.00				
	1211(5)	MSFD-32-35, 600X400	pc	4.00				
	1211(5)	MSFD-40, 600X450	pc	1.00				
	1211(5)	MSFD-41-44, 900X900	pc	4.00				
	1211(5)	MSFD-45-46, 500X350	pc	2.00				
	1211(5)	MSFD-49-50, 600X300	pc	2.00				
	1211(5)	MSFD-53-54, 1500X900	pc	2.00				
	1211(5)	MSFD-61-62, 1500X900	pc	2.00				
	1211(5)	MSFD-71-72, 500X500	pc	2.00				
	1211(5)	MSFD-73, 500X300	pc	1.00				
	1211(5)	MSFD-77, 1350X1200	pc	1.00				
	1211(5)	MSFD-78-79, 1500X900	pc	1.00				
	1211(5)	MSFD-80, 1500X800	pc	1.00				
		Motorized Smoke Fire Damper						
	1211(5)	SA-13; 4560cmh; 300mm x 400mm x 900mm; 60Pa; downstream	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Ventilation fans; including all accessories, controls, wirings, conduits, vibration isolator and all other connections needed to complete the system						
	1216(4)	OS-CL-RAF-01; 29942CMH; 750Pa; Centrifugal type; 12kW; 380V/3ph/60Hz; fire rated @ 250C/2hrs; with VFD and vibrator isolator	set	1.00				
	1216(4)	OS-CL-RAF-02; 29942CMH; 750Pa; Centrifugal type; 12kW; 380V/3ph/60Hz; ; fire rated @ 250C/2hrs; with VFD and vibrator isolator	set	1.00				
	1216(4)	OS-MZ-RAF-01/02; 53,550CMH; 900Pa; Centrifugal type; 18kW; 380V/3ph/60Hz; fire rated @ 250C/2hrs; with VFD and vibrator isolator	set	2.00				
	1216(4)	OS-MZ-RAF-03/04; 53,550CMH; 900Pa; Centrifugal type; 18kW; 380V/3ph/60Hz; fire rated @ 250C/2hrs; with VFD and vibrator isolator	set	2.00				
	1216(4)	OS-CL-SEF-1A/1B; 4,560 CMH; 1600 Pa; Centrifugal type; 4.7kW; 380V/3ph/60Hz; fire rated @ 250C/2hrs; with VFD	set	2.00				
	1216(4)	OS-CL-SEF-2A/2B; 9,000 CMH; 1350 Pa; Centrifugal type; 6.5kW; 380V/3ph/60Hz; with VFD	set	2.00				
	1216(4)	OS-CL-SEF-3A/3B; 4,800 CMH; 1,600 Pa; Centrifugal type; 5kW; 380V/3ph/60Hz; fire rated @ 250C/2hrs; with VFD	set	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1216(4)	OS-CL-SEF-04/05; 28,800 CMH; 1,130 Pa; Centrifugal type; 17kW; 380V/3ph/60Hz; fire rated @ 250C/2hrs; with VFD	set	2.00				
	1216(4)	OS-CL-SEF-06/07; 28,800 CMH; 1,130 Pa; Centrifugal type; 17kW; 380V/3ph/60Hz; fire rated @ 250C/2hrs; with VFD	set	2.00				
	1216(4)	OS-MZ-SEF-1A/1B; 6750; 750Pa; Centrifugal type; 3.5kW; 220V/1ph/60hz; with VFD and vibrator isolator	set	2.00				
		Allow for the provision of		-				
	1216	Duct work ancillaries and differential pressure sensor including wirings, cables, conduits, controls and all necessary connections to complete the system and as describe	item	1.00				
		PRESSURIZATION SYSTEM						
		Galvanized steel sheet ductwork ancillaries including flexible connections and flanges; conforming to the MPF Technical Specifications specified in 1211 Ductworks and Accessories						
		Pressure Relief Damper						
	1211(5)	PRD-12, 1000mmx700mm @Staircase Pressurization	pc	1.00				
	1211(5)	PRD-13, 1000mmx700mm @Staircase Pressurization	pc	1.00				
	1211(5)	PRD-14, 1000mmx700mm @Staircase Pressurization	pc	1.00				
		Fresh Air Grille						
	1211(6)	FAG 48; Bar Grille; 2250mm x 600mm	pc	1.00				
	1211(6)	FAG 49; Bar Grille; 1500mm x 900mm	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Ventilation fans; including all accessories, controls, wirings, conduits, vibration isolator and all other connections needed to complete the system						
	1216(4)	OS-CL-FAF-4A/4B, axial fan, 18720cmh @300Pa, 5.5KW, with VFD; 380V/3ph/60Hz	set	2.00				
	1216(4)	OS-CL-FAF-5A/5B, axial fan, 18720cmh @300Pa, 5.5KW, with VFD; 380V/3ph/60Hz	set	2.00				
	1216(4)	OS-GL-FAF-1A/1B, axial fan, 18720cmh @300Pa, 5.5KW, with VFD; 380V/3ph/60Hz	set	2.00				
		Allow for the provision of						
	1211(6)	Duct work ancillaries and differential pressure sensor including wirings, cables, conduits, controls and all necessary connections to complete the system and as described	item	1.00				
		AIR CONDITIONING SYSTEM						
		Galvanized steel sheet rectangular ducts and fittings; conforming to SMACNA HVAC Duct Construction Standards						
	1211(2)	Gauge 26	m2	28.00				
	1211(2)	Gauge 24	m2	1,669.00				
	1211(2)	Gauge 22	m2	1,568.00				

DEPARTMENT OF TRANSPORTATION
 METRO MANILA SUBWAY PROJECT
 PHASE 1
 Bill NO.5B
 STATION E&M WORKS - ORTIGAS SOUTH

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(2)	Gauge 20	m2	1,161.00				
		Thermal Insulation; Rockwool; 64kg/cu.m; 0.035W/mK						
	1212(1)	fixing externally to rectangular ducts	m2	4,426.00				
		Galvanized steel sheet ductwork ancillaries including flexible connections and flanges; conforming to the MPF Technical Specifications specified in 1211 Ductworks and Accessories						
		Volume damper						
	1211(5)	250mm diameter	pc	408.00				
	1211(5)	150mm x 100mm	pc	2.00				
	1211(5)	150mm x 150mm	pc	2.00				
	1211(5)	250mm x 100mm	pc	7.00				
	1211(5)	300mm x 200mm	pc	5.00				
	1211(5)	600mm x 150mm	pc	166.00				
		ACP						
	1211(5)	400mm X 200mm	pc	2.00				
	1211(5)	400mm X 300mm	pc	1.00				
	1211(5)	450mm X 300mm	pc	1.00				
	1211(5)	450mm X 350mm	pc	2.00				
	1211(5)	500mm X 400mm	pc	1.00				
	1211(5)	700mm X 500mm	pc	2.00				
	1211(5)	700mm X 500mm	pc	3.00				
	1211(5)	750mm X 350mm	pc	1.00				
	1211(5)	1000mm X 500mm	pc	1.00				
	1211(5)	1100mm X 500mm	pc	1.00				
	1211(5)	1200mm X 500mm	pc	2.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1211(5)	1500mm X 450mm	pc	1.00				
		Linear Diffuser						
	1211(6)	SD 1-136; Swirl diffuser type; 1200mm x 250mm	pc	136.00				
		Supply Air Grille						
	1211(6)	SAG 1-90; Bar Grille; 600mmx150mm	pc	90.00				
	1211(6)	SAG 91-166; Bar Grille; 600mmx150mm	pc	76.00				
		Return Air Grille						
	1211(6)	RAG 1; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	RAG 2A-2B; Bar Grille; 300mm x 200mm	pc	2.00				
	1211(6)	RAG 3; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	RAG 4; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	RAG 5; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	RAG 6; Bar Grille; 150mm x 150mm	pc	1.00				
	1211(6)	RAG 7; Bar Grille; 150mm x 150mm	pc	1.00				
	1211(6)	RAG 8; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	RAG 9; Bar Grille; 150mm x 100mm	pc	1.00				
	1211(6)	RAG 10; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	RAG 11; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	RAG 12; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	RAG 13; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	RAG 14; Bar Grille; 300mm x 200mm	pc	1.00				
	1211(6)	RAG 15; Bar Grille; 200mm x 200mm	pc	1.00				
	1211(6)	RAG 16; Bar Grille; 200mm x 200mm	pc	1.00				
		Supply Air diffuser						
	1211(6)	683 cmh capacity; allowance only	pc	138.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Flexible duct						
	1211(4)	250mm diameter x 1m	pc	408.00				
		Motorized damper						
	1211(5)	MOD-01; 1250mm x 800mm	pc	1.00				
	1211(5)	MOD-02; 1500mm x 1000mm	pc	1.00				
	1211(5)	MOD-03; 1500mm x 700mm	pc	1.00				
	1211(5)	MOD-04; 2000mm x 750mm	pc	1.00				
	1211(5)	MOD-05; 1200mm x 800mm	pc	1.00				
	1211(5)	MOD-06; 1200mm x 850mm	pc	1.00				
	1211(5)	MOD-07; 1500mm x 800mm	pc	1.00				
	1211(5)	MOD-08; 1500mm x 900mm	pc	1.00				
	1211(5)	MOD-09; 1000mm x 600mm	pc	1.00				
	1211(5)	MOD-10; 1350mm x 100mm	pc	1.00				
	1211(5)	MOD-11; 1350mm x 1200mm	pc	1.00				
	1211(5)	MOD-12; 1500mm x 800mm	pc	1.00				
		Sound Attenuator						
	1211(6)	SA-19; 52005cmh; 900mm x 1800mm x 2400mm; 60Pa; Downstream	pc	1.00				
	1211(6)	SA-21; 46805cmh; 900mm x 1800mm x 2400mm; 60Pa; Downstream	pc	1.00				
	1211(6)	SA-23; 52005cmh; 900mm x 1800mm x 2400mm; 60Pa; Downstream	pc	1.00				
	1211(6)	SA-24; 52005cmh; 900mm x 1800mm x 2400mm; 60Pa; Upstream	pc	1.00				
	1211(6)	SA-25; 46805cmh; 900mm x 1800mm x 2400mm; 60Pa; Downstream	pc	1.00				
	1211(6)	SA-53; 52170cmh; 1800mm x 900mm x 2100mm; 60Pa; Downstream	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Fan Coil Unit, VRF/Multi-split type; complete with insulation, thermostats, speed regulators and all necessary accessories and connections						
	1213(2)	OS-MZ-IU-1A/1B; 5.6kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	OS-MZ-IU-2A/2B; 14kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	OS-MZ-IU-3A/3B; 14 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	OS-MZ-IU-4A/4B; 28 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	OS-MZ-IU-5A/5B; 7.1 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	OS-MZ-IU-6A/6B; 14 kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	OS-MZ-IU-7A/7B; 3.6kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	2.00				
	1213(2)	OS-MZ-IU-8A/8B/8C; 28kW cooling cap; 220V/1ph/60Hz; R-410A refrigerant	set	3.00				
	1213(2)	OS-MZ-AHUDX-01, 38.8 KW cooling cap; complete with VFD 380V/3ph/60Hz; R-410A	set	1.00				
				-				
		Air Cooled Condensing Unit (ACCU), VRF/Multi-split type; including all necessary accessories and connections		-				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1213(1)	OS-GL-OU-01; 122 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
	1213(1)	OS-GL-OU-02; 122 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
	1213(1)	OS-GL-OU-03; 28 kW cooling cap; 380V/3ph/60Hz; R-410A refrigerant	set	1.00				
		Fan Coil Unit (FCU), chilled water type; complete with insulation, thermostats, speed regulators and all necessary accessories and connections						
	1214(1)	OS-CL-FCU-01; ducted type; 1.5kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-02; ducted type; 1.8kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-03; ducted type; 2.7kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-04; ducted type; 0.7kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-05; ducted type; 0.9kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-06; ducted type; 5.2kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-07; ducted type; 4.5kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-08; ducted type; 1.2kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-9; ducted type; 1.6kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1214(1)	OS-CL-FCU-10; ducted type; 2.8kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-11A & 11B; ducted type; 8.7kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	2.00				
	1214(1)	OS-CL-FCU-12; ducted type; 2.1kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-13; ducted type; 1.6kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-14; ducted type; 1kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-15; ducted type; 1.5kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
	1214(1)	OS-CL-FCU-16; ducted type; 1.1kW cooling cap; 200 Pa; 220V/1ph/60Hz	set	1.00				
		Air Handling Unit (AHU), chilled water type; complete with insulation, thermostats, speed regulators and all necessary accessories and connections						
	1215(1)	OS-MZ-AHU-01; 310 kW cooling cap; 900 Pa; 380V/3ph/60Hz; w/ VFD	set	1.00				
	1215(1)	OS-MZ-AHU-02; 310 kW cooling cap; 900 Pa; 380V/3ph/60Hz; w/ VFD	set	1.00				
	1215(1)	OS-CL-AHU-01; 396 kW cooling cap; 750 Pa; 380V/3ph/60Hz; w/ VFD	set	1.00				
	1215(1)	OS-CL-AHU-02; 368.9 kW cooling cap; 750 Pa; 380V/3ph/60Hz; w/ VFD	set	1.00				
		Fresh Air Handling Unit (FAHU), chilled water type; complete with insulation, thermostats, speed regulators and all necessary accessories and connections						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1215(1)	OS-CL-FAH-01; 27.3kW cooling capacity; 500 Pa; 380V/3ph/60Hz; w/ VFD	set	1.00				
	1215(1)	OS-CL-FAH-02; 14.0kW cooling capacity; 500 Pa; 380V/3ph/60Hz; w/ VFD	set	1.00				
		TUNNEL VENTILATION SYSTEM						
		Tunnel Ventilation Dampers						
	1228(1)	MSFD - 83A/83B; 3120mm x 2000mm	pc	2.00				
	1228(1)	MSFD - 84; 2500mm x 4500mm	pc	1.00				
	1228(1)	MSFD - 85; 3000mm x 3750mm	pc	1.00				
	1228(1)	MSFD - 86; 2500mm x 4500mm	pc	1.00				
	1228(1)	MSFD - 87A/87B; 3120mm x 2000mm	pc	2.00				
	1228(1)	MSFD - 88A/88B; 3120mm x 2000mm	pc	2.00				
	1228(1)	MSFD - 89; 2500mm x 4500mm	pc	1.00				
	1228(1)	MSFD - 90; 3000mm x 3750mm	pc	1.00				
	1228(1)	MSFD - 91A/91B; 3120mm x 2000mm	pc	2.00				
	1228(1)	MSFD - 92; 2500mm x 4500mm	pc	1.00				
		Motorized Smoke Fire Damper						
	1211(5)	OS-ST-TVS-01, 6500mm X 5000mm	pc	1.00				
	1211(5)	OS-ST-TVS-01, 6500mm X 5000mm	pc	1.00				
	1211(5)	OS-ST-TVS-01, 6500mm X 5000mm	pc	1.00				
	1211(5)	OS-ST-TVS-01, 6500mm X 5000mm	pc	1.00				
		Tunnel Ventilation Silencer						
	1229(1)	OS-MZ-SIL-01; Horizontally mounted; 396,000cu.m; 9.17m/s; 150Pa; 3500mm x 3000mm x 3000mm	pc	1.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1229(1)	OS-MZ-SIL-02; Horizontally mounted; 396,000cu.m; 9.17m/s; 150Pa; 3500mm x 3000mm x 3000mm	pc	1.00				
	1229(1)	OS-MZ-SIL-03; Horizontally mounted; 360,000cu.m; 8.3m/s; 150Pa; 3500mm x 3000mm x 3000mm	pc	1.00				
	1229(1)	OS-MZ-SIL-04; Horizontally mounted; 360,000cu.m; 8.3m/s; 150Pa; 3500mm x 3000mm x 3000mm	pc	1.00				
	1229(1)	OS-MZ-SIL-05; Horizontally mounted; 360,000cu.m; 8.3m/s; 150Pa; 3500mm x 3000mm x 3000mm	pc	1.00				
	1229(1)	OS-MZ-SIL-06; Horizontally mounted; 360,000cu.m; 8.3m/s; 150Pa; 3500mm x 3000mm x 3000mm	pc	1.00				
	1229(1)	OS-MZ-SIL-07; Horizontally mounted; 360,000cu.m; 8.3m/s; 150Pa; 3500mm x 3000mm x 3000mm	pc	1.00				
	1229(1)	OS-MZ-SIL-08; Horizontally mounted; 360,000cu.m; 8.3m/s; 150Pa; 3500mm x 3000mm x 3000mm	pc	1.00				
		Tunnel Ventilation Silencer						
		Ventilation fans; including all necessary accessories, controls, cables/wirings, conduits, vibration isolator and all other connections needed to complete the system						
	1227(1)	OS-MZ-TVF-01; Axial flow, fully reversible; direct driven; 396,000 m3/hr @ 1387 Pa; 250°C for 1 hr	set	1.00				
	1227(1)	OS-MZ-TVF-02; Axial flow, fully reversible; direct driven; 360,000 m3/hr @ 1137Pa; 250°C for 1 hr	set	1.00				
	1227(1)	OS-MZ-TVF-03; Axial flow, fully reversible; direct driven; 360,000 m3/hr @ 1145 Pa; 250°C for 1 hr	set	1.00				
	1227(1)	OS-MZ-TVF-04; Axial flow, fully reversible; direct driven; 360,000 m3/hr @ 1080 Pa; 250°C for 1 hr	set	1.00				
		Allow for the provision of						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1227	Tunnel ventilation ducts and ancillaries including grilles, dampers, flanges, connections and all other necessary accessories	item	1.00				
		SUB-TOTAL (AIR CONDITIONING AND MECHANICAL VENTILATION)						
		ELECTRICAL AND AUXILIARY INSTALLATION						
		Mains and Sub-Mains Distribution Systems						
		Supply and installation of busduct and fittings including supply drop rods, fire sealant, vertical load supports, hangers, consumables all in accordance with the drawing (STN-MEP-ELL-OS-2011) and STN-MEP-ELL-OS-3300 to 3344						
1112	1112 (1)	4000A, 380V, 60Hz,4W Copper busduct with with 50 % Integral ground bus IP.43	m	400.00				
1112	1112 (2)	Flanged end	set	14.00				
1112	1112 (3)	Horizontal Elbow	set	23.00				
1112	1112 (4)	Vertical Elbow	set	14.00				
1112	1112 (5)	Trapeze hanger	item	1.00				
1112	1112 (6)	Spring hanger	item	1.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1112	1112 (7)	Flexible braided connector	set	8.00				
1112	1112 (8)	Tap-off Box complete with 1200AT Tap-off Breaker	set	2.00				
		Cable Tray; including all necessary accessories/ ancillaries, fittings hangers and supports; reference STN-MEP-ELL-OS-3300 to 3344						
1117	1117 (1a)	50mm x 100mm	m	500.00				
1117	1117 (1b)	100mm x 100mm	m	400.00				
1117	1117 (1c)	150mm x 100mm	m	1,100.00				
1117	1117 (1d)	200mm x 100mm	m	600.00				
1117	1117 (1e)	225mm x 100mm	m	100.00				
1117	1117 (1f)	300mm x 100mm	m	1,300.00				
1117	1117 (1g)	400mm x 100mm	m	600.00				
1117	1117 (1h)	450mm x 100mm	m	200.00				
1117	1117 (1i)	500mm x 100mm	m	200.00				
1117	1117 (1j)	600mm x 100mm	m	400.00				
1117	1117 (1k)	750mm x 100mm	m	900.00				
1117	1117 (1L)	900mm x 100mm	m	200.00				
		Intermediate metallic conduit (IMC); reference STN-MEP-ELL-OS-3300 to 3344						
		Surface fixed; including all necessary supports and accessories						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1116	1116 (2a)	20 mm diameter	m	200.00				
1116	1116 (2b)	25 mm diameter	m	700.00				
1116	1116 (2c)	32 mm diameter	m	600.00				
1116	1116 (2d)	40 mm diameter	m	200.00				
1116	1116 (2e)	50 mm diameter	m	200.00				
1116	1116 (2f)	65 mm diameter	m	100.00				
1116	1116 (2g)	80 mm diameter	m	200.00				
1116	1116 (2h)	90 mm diameter	m	100.00				
1116	1116 (2i)	100 mm diameter	m	100.00				
		Rigid metallic conduit (RMC); reference STN-MEP-ELL-OS-3300 to 3344						
1116	1116 (3a)	15mm diameter	m	900.00				
1116	1116 (3b)	20mm diameter	m	400.00				
1116	1116 (3c)	25mm diameter	m	500.00				
1116	1116 (3d)	32mm diameter	m	900.00				
1116	1116 (3e)	40mm diameter	m	400.00				
1116	1116 (3f)	50mm diameter	m	200.00				
1116	1116 (3g)	65mm diameter	m	100.00				
		Feeder wires/cables; type XLPE; reference STN-MEP-ELL-OS-2001 to 2006 and 2012						
		Drawing into conduits; (conduits measured separately)						

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Feeder wires/cables; type XLPE-F; reference STN-MEP-ELL-OS-2001 to 2006 and 2012						
		Drawing into conduits; (conduits measured separately)						
1121	1121 (4a)	2C x 14 sq.mm	m	1,200.00				
1121	1121 (4b)	3C x 14 sq.mm	m	2,700.00				
1121	1121 (4c)	3C x 22 sq.mm	m	1,100.00				
1121	1121 (4d)	3C x 30 sq.mm	m	400.00				
1121	1121 (4e)	3C x 38 sq.mm	m	1,100.00				
1121	1121 (4f)	3C x 50 sq.mm	m	200.00				
1121	1121 (4g)	3C x 60 sq.mm	m	700.00				
1121	1121 (4h)	3C x 80 sq.mm	m	2,100.00				
1121	1121 (4i)	3C x 100 sq.mm	m	1,300.00				
1121	1121 (4j)	3C x 125 sq.mm	m	300.00				
1121	1121 (4k)	3C x 200 sq.mm	m	100.00				
1121	1121 (4l)	3C x 250 sq.mm	m	200.00				
1121	1121 (4m)	4C x 14 sq. mm	m	1,700.00				
1121	1121 (4n)	4C x 22 sq. mm	m	1,100.00				
1121	1121 (4o)	4C x 30 sq. mm	m	500.00				
1121	1121 (4p)	4C x 50 sq. mm	m	400.00				
1121	1121 (4q)	4C x 60 sq. mm	m	500.00				
1121	1121 (4r)	4C x 80 sq. mm	m	800.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1121	1121 (4s)	4C x 100 sq. mm	m	200.00				
1121	1121 (4t)	4C x 125 sq. mm	m	700.00				
1121	1121 (4u)	4C x 200 sq. mm	m	2,200.00				
1121	1121 (4v)	4C x 250 sq. mm	m	2,500.00				
1121	1121 (4w)	4C x 325 sq. mm	m	400.00				
1121	1121 (4x)	4C x 400 sq. mm	m	200.00				
		Feeder wires/cables; type XHHW/ CPC; reference STN-MEP-ELL-OS-2001 to 2006 and 2012						
		Drawing into conduits; (conduits measured separately)						
1121	1121 (5a)	1C x 14 sq. mm	m	100.00				
1121	1121 (5b)	1C x 30 sq. mm	m	100.00				
1121	1121 (5c)	1C x 60 sq. mm	m	200.00				
		Feeder wires/cables; type XLPE/ CPC; reference STN-MEP-ELL-OS-2001 to 2006 and 2012						
		Drawing into conduits; (conduits measured separately)						
1121	1121 (6a)	1C x 5.5 sq. mm	m	7,100.00				
1121	1121 (6b)	1C x 8.0 sq. mm	m	900.00				
1121	1121 (6c)	1C x 14 sq. mm	m	500.00				
1121	1121 (6d)	1C x 30 sq. mm	m	100.00				
1121	1121 (6e)	1C x 22 sq. mm	m	100.00				
1121	1121 (6f)	1C x 50 sq. mm	m	200.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Feeder wires/cables; type XLPE-F/ CPC; reference STN-MEP-ELL-OS-2001 to 2006 and 2012						
		Drawing into conduits; (conduits measured separately)						
1121	1121 (7a)	1C x 5.5 sq. mm	m	10,900.00				
1121	1121 (7b)	1C x 8.0 sq. mm	m	2,600.00				
1121	1121 (7c)	1C x 14 sq. mm	m	1,200.00				
1121	1121 (7d)	1C x 22 sq. mm	m	800.00				
1121	1121 (7e)	1C x 30 sq. mm	m	200.00				
1121	1121 (7f)	1C x 38 sq. mm	m	100.00				
1121	1121 (7g)	1C x 50 sq. mm	m	300.00				
1121	1121 (7h)	1C x 60 sq. mm	m	600.00				
1121	1121 (7i)	1C x 80 sq. mm	m	500.00				
		Panelboards; including Busbar, Neutral bus, selector switch, contactors, relays, integral surge protection devices (SPD), phase indicating lights, power meters and auxilliary contacts for BMS interconnection and all necessary accessories in accordance with the manufacturer's instructions and as shown in drawings with reference STN-MEP-ELL-OS-2007 to 2047						
		Panelboard						
1113	1113(1)a	Panelboard : OS-GL-ELDB-02	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113(1)b	Panelboard : OS-GL-ELDB-01	assy	1.00				
1113	1113(1)c	Panelboard : OS-CL-ELDB-01	assy	1.00				
1113	1113(1)d	Panelboard : OS-GL-ELDB-03	assy	1.00				
1113	1113(1)e	Panelboard : OS-CL-ELDB-03	assy	1.00				
1113	1113(1)f	Panelboard : OS-CL-ELDB-02	assy	1.00				
1113	1113(1)g	Panelboard : OS-CL-ELDB-05	assy	1.00				
1113	1113(1)h	Panelboard : OS-CL-ELDB-04	assy	1.00				
1113	1113(1)i	Panelboard : OS-PL-ELDB-01	assy	1.00				
1113	1113(1)j	Panelboard : OS-CL-ELDB-06	assy	1.00				
1113	1113(1)k	Panelboard : OS-PL-ELDB-03	assy	1.00				
1113	1113(1)l	Panelboard : OS-MZ-ELDB-01	assy	1.00				
1113	1113(1)m	Panelboard : OS-MZ-ELDB-02	assy	1.00				
1113	1113(1)n	Panelboard : OS-PL-ELDB-02	assy	1.00				
1113	1113(1)o	Panelboard : OS-CL-PDB-01	assy	1.00				
1113	1113(1)p	Panelboard : OS-PL-ELDB-04	assy	1.00				
1113	1113(1)q	Panelboard : OS-MZ-PDB-01	assy	1.00				
1113	1113(1)r	Panelboard : OS-CL-PDB-02	assy	1.00				
1113	1113(1)s	Panelboard : OS-CL-PDB-04	assy	1.00				
1113	1113(1)t	Panelboard : OS-MZ-PDB-02	assy	1.00				
1113	1113(1)u	Panelboard : OS-PL-PDB-03	assy	1.00				
1113	1113(1)v	Panelboard : OS-MZ-EPDB-02	assy	1.00				
1113	1113(1)w	Panelboard : OS-MZ-EPDB-01	assy	1.00				
1113	1113(1)x	Panelboard : OS-CL-EPDB-01	assy	1.00				
1113	1113(1)y	Panelboard : OS-TN-ELPDB-01	assy	1.00				
1113	1113(1)z	Panelboard : OS-TN-ELPDB-02	assy	1.00				
1113	1113(1)aa	Panelboard : OS-CL-EPDB-02	assy	1.00				
1113	1113(1)ab	Panelboard : OS-CL-UDB-02	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113(1)ac	Panelboard : OS-CL-UDB-01	assy	1.00				
1113	1113(1)ad	Panelboard : OS-CL-UDB-04	assy	1.00				
1113	1113(1)ae	Panelboard : OS-CL-UDB-03	assy	1.00				
1113	1113(1)af	Panelboard : OS-MZ-UDB-01	assy	1.00				
1113	1113(1)ag	Panelboard : OS-CL-UDB-05	assy	1.00				
1113	1113(1)ah	Panelboard : OS-PL-UDB-01	assy	1.00				
1113	1113(1)ai	Panelboard : OS-MZ-UDB-02	assy	1.00				
1113	1113(1)aj	Panelboard : OS-ADV-PDB-01	assy	1.00				
1113	1113(1)ak	Panelboard : OS-PL-UDB-02	assy	1.00				
1113	1113(1)al	Panelboard : OS-ADV-PDB-03	assy	1.00				
1113	1113(1)am	Panelboard : OS-ADV-PDB-02	assy	1.00				
1113	1113(1)an	Panelboard : OS-TN-ELPDB-03	assy	1.00				
1113	1113(1)ao	Panelboard : OS-TN-ELPDB-04	assy	1.00				
1113	1113(1)ap	Panelboard : OS-ADV-PDB-04	assy	1.00				
1113	1113(1)aq	Panelboard : OS-CL-EMCC-02	assy	1.00				
1113	1113(1)ar	Panelboard : OS-CL-EMCC-01	assy	1.00				
1113	1113(1)as	Panelboard : OS-CL-MCC-01	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113(1)at	Panelboard : OS-CL-EMCC-03	assy	1.00				
1113	1113(1)au	Panelboard : OS-CL-EMCC-04	assy	1.00				
1113	1113(1)av	Panelboard : OS-MZ-EMCC-07	assy	1.00				
1113	1113(1)aw	Panelboard : OS-MZ-EMCC-06	assy	1.00				
1113	1113(1)ax	Panelboard : OS-MZ-EMCC-05	assy	1.00				
1113	1113(1)ay	Panelboard : OS-MZ-USMDB-01	assy	1.00				
1113	1113(1)az	Panelboard : OS-MZ-ESMDB-03	assy	1.00				
1113	1113(1)ba	Panelboard : OS-MZ-EMCC-03	assy	1.00				
1113	1113(1)bb	Panelboard : OS-MZ-EMCC-02	assy	1.00				
1113	1113(1)bc	Panelboard : OS-MZ-EMCC-01	assy	1.00				
1113	1113(1)bd	Panelboard : OS-MZ-ESMDB-01	assy	1.00				
1113	1113(1)be	Panelboard : OS-MZ-ESMDB-02	assy	1.00				
1113	1113(1)bf	Panelboard : OS-MZ-EMDB-01	assy	1.00				
1113	1113(1)bg	Panelboard : OS-MZ-MDB-01	assy	1.00				
1113	1113(1)bh	Panelboard : OS-MZ-SMDB-01	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113(1)bi	Panelboard : OS-MZ-EMCC-04	assy	1.00				
1113	1113(1)bj	Panelboard : OS-PL-EMCC-01	assy	1.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described; reference STN-MEP-ELL-OS-2012						
		Capacitor Bank						
1113	1113 (2a)	APFC Panel 01 & 02 ; 450 KVAR	assy	2.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described; reference STN-MEP-ELL-OS-2001 to 2006						
		Enclosed Circuit Breaker (ECB); in NEMA 4X Enclosure						
1113	1113 (3a)	25A TPN	assy	22.00				
1113	1113 (3b)	30A TPN	assy	33.00				
1113	1113 (3c)	35A TPN	assy	12.00				
1113	1113 (3d)	40A TPN	assy	33.00				
1113	1113 (3e)	45A TPN	assy	13.00				
1113	1113 (3f)	50A TPN	assy	7.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1113	1113 (3g)	60A TPN	assy	11.00				
1113	1113 (3h)	70A TPN	assy	3.00				
1113	1113 (3i)	80A TPN	assy	11.00				
1113	1113 (3j)	90A TPN	assy	4.00				
1113	1113 (3k)	100A TPN	assy	19.00				
1113	1113 (3l)	110A TPN	assy	2.00				
1113	1113 (3m)	125A TPN	assy	2.00				
1113	1113 (3n)	150A TPN	assy	3.00				
1113	1113 (3o)	200A TPN	assy	5.00				
1113	1113 (3p)	220A TPN	assy	1.00				
1113	1113 (3q)	225A TPN	assy	1.00				
1113	1113 (3r)	250A TPN	assy	4.00				
1113	1113 (3s)	300A TPN	assy	5.00				
1113	1113 (3t)	350A TPN	assy	1.00				
1113	1113 (3u)	450A TPN	assy	3.00				
1113	1113 (3v)	500A TPN	assy	2.00				
1113	1113 (3w)	600A TPN	assy	3.00				
1113	1113 (3x)	25A SPN	assy	15.00				
1113	1113 (3y)	30A SPN	assy	2.00				
1113	1113 (3z)	35A SPN	assy	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Isolators						
1113	1113 (3aa)	20A SPN; isolator Fire Shutter	assy	9.00				
1113	1113 (3ab)	20A TPN; isolator for Water HEater	assy	7.00				
1113	1113 (3ac)	20A TPN; Isolator; HL	assy	5.00				
1113	1113 (3ad)	Isolator fo FACP	assy	1.00				
1113	1113 (3ae)	Isolator for DPMCP	assy	1.00				
1113	1113 (3af)	Isolator for PLC Panel	assy	5.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described; reference STN-MEP-ELL-OS-2011						
		Automatic Transfer Switch; for Fire pump and Jockey pump						
1113	1113 (5)	1200AT, 3P	assy	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix the following items; including all necessary accessories such as Maintenance By-pass switch, LCD Status and control console, emergency power off and external battery system including cables in accordance with the manufacturer's instructions and as described with reference STN-MEP-ELL-OS-2011						
		Uninterruptible Power Supply (UPS)						
1114	1114 (1)	120KVA	set	2.00				
		Supply and fix the following items; Battery racks, battery controller, sensors as well as transducer for BMS interface, including cables in accordance with the manufacturer's instructions and as described with reference STN-MEP-ELL-OS-2011						
		External Battery System						
1114	1114 (2)	External Battery System; 2 hours	set	2.00				
		General Lighting and Power						
		Conduit systems to receive final circuits; Intermediate Metallic Conduit (IMC) conduit including boxes, fittings and necessary flexible metallic conduit; reference STN-MEP-ELL-OS-3100 to 3244						
		From panelboards to						
1116	1116 (1a)	lighting points; locally controlled ceiling mounted	nr	3,398.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1116	1116 (1b)	lighting points; locally controlled wall mounted	nr	309.00				
1116	1116 (1c)	exit sign points	nr	86.00				
1116	1116 (1d)	switch points; 1 way 1 gang	nr	14.00				
1116	1116 (1e)	switch points; 1 way (emergency lighting)	nr	58.00				
1116	1116 (1f)	switch points; presence detector bypass switch (in metal clad)	nr	44.00				
1116	1116 (1g)	Surfaced Mounted switched socket outlet points	nr	40.00				
1116	1116 (1h)	Surfaced Mounted twin switched socket outlet points	nr	94.00				
1116	1116 (1i)	Surfaced Mounted twin switched socket outlet points on UPS Supply	nr	44.00				
1116	1116 (1j)	Fused Connection Unit complete with switch points for Hand dryer	nr	7.00				
1116	1116 (1k)	Fused Connection Unit complete with switch points for Fan Coil Unit	nr	17.00				
1116	1116 (1l)	Surfaced Mounted switched socket outlet points on UPS Supply	nr	23.00				
1116	1116 (1m)	Surfaced Mounted switched socket outlet points	nr	95.00				
1120	1120 (2k)	Surfaced Mounted socket outlet without switch points	nr	12.00				
1116	1116 (1n)	Fused Connection Unit complete with switch points	nr	53.00				
1116	1116 (1p)	Fused Connection Unit complete with switch points for MSFD & MOD (Metalclad type)	nr	105.00				
1120	1120 (1r)	Junction Box points for "SN" fixture	nr	116.00				
1116	1116 (1s)	Junction Box points for "PD" fixture	nr	93.00				
1116	1116 (1t)	Junction box; striplights	nr	9.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1116	1116 (1u)	Junction Box points for Escalator lighting	nr	9.00				
1116	1116 (v)	Junction Box points for T&B mirror lighting	nr	6.00				
		Final circuits in single core LSOH/ Fire rated cables; drawing into intermediate metallic conduit (IMC) conduit; (conduits measured separately); reference STN-MEP-ELL-OS-3100 to 3244						
		From panelboards to						
1120	1120 (2a)	lighting points; locally controlled ceiling mounted	nr	3,398.00				
1120	1120 (2b)	lighting points; locally controlled wall mounted	nr	309.00				
1120	1120 (2c)	exit sign points	nr	86.00				
1120	1120 (2d)	switch points; 1 way 1 gang	nr	14.00				
1120	1120 (2e)	switch points; 1 way (emergency lighting)	nr	58.00				
1120	1120 (2f)	switch points; presence detector bypass switch (in metal clad)	nr	44.00				
1120	1120 (2g)	Surfaced Mounted switched socket outlet points	nr	40.00				
1120	1120 (2h)	Surfaced Mounted twin switched socket outlet points	nr	94.00				
1120	1120 (2i)	Surfaced Mounted twin switched socket outlet points on UPS Supply	nr	44.00				
1120	1120 (2j)	Fused Connection Unit complete with switch points for Hand dryer	nr	7.00				
1120	1120 (2k)	Fused Connection Unit complete with switch points for Fan Coil Unit	nr	17.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1120	1120 (2l)	Surfaced Mounted switched socket outlet points on UPS Supply	nr	23.00				
1120	1120 (2m)	Surfaced Mounted switched socket outlet points	nr	95.00				
1120	1120 (2n)	Surfaced Mounted socket outlet without switch points	nr	12.00				
1120	1120 (2o)	Fused Connection Unit complete with switch points	nr	53.00				
1120	1120 (2q)	Fused Connection Unit complete with switch points for MSFD & MOD (Metalclad type)	nr	105.00				
1120	1120 (2r)	Junction Box points for "SN" fixture	nr	116.00				
1120	1120 (2r)	Junction Box points for "PD" fixture	nr	93.00				
1120	1120 (2s)	Junction box; striplights	nr	9.00				
1120	1120 (2t)	Junction Box points for Escalator lighting	nr	9.00				
1120	1120 (2u)	Junction Box points for T&B mirror lighting	nr	6.00				
		Supply and fix specified or approved equal lighting fixtures and ancillaries; reference STN-MEP-ELL-OS-3100 to 3244						
		Lighting fixtures						
1118	1118 (1a)	type A1; rated IP20 Batten type Lighting Fixture	set	145.00				
1118	1118 (1b)	type A1; rated IP20 Batten type Lighting Fixture connected to Emergency Power	set	76.00				
1118	1118 (1c)	type A2; rated IP20 Batten type Lighting Fixture	set	224.00				
1118	1118 (1d)	type A2; rated IP20 Batten type Lighting Fixture connected to Emergency Power	set	76.00				
1118	1118 (1e)	type A3; rated IP20 Batten type Lighting Fixture	set	954.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1118	1118 (1f)	type A3; rated IP20 Batten type Lighting Fixture connected to Emergency Power	set	407.00				
1118	1118 (1g)	type A4; rated IP20 Batten type Lighting Fixture	set	36.00				
1118	1118 (1h)	type A4; rated IP20 Batten type Lighting Fixture connected to Emergency Power	set	25.00				
1118	1118 (1i)	A5 - Base light LED linear module fixture, Batten type (100 - 240V, 8W, 3000K, 750lm, IP20, Lifetime 40,000 hrs., Medium B/A C/O 150mm diameter)	set	85.00				
1118	1118 (1j)	A5(E) -Base light LED linear module fixture, Batten type (100 - 240V, 8W, 3000K, 750lm, IP20, Lifetime 40,000 hrs., Medium B/A C/O 150mm diameter) connected to Emergency Power	set	37.00				
1118	1118 (1k)	type A6 - Base light LED Linear module fixture, Batten type (100-240V 13.6W 3000K 1800 lm IP20, Lifetime 40,000 hrs. W 70mm)	set	644.00				
1118	1118 (1l)	type B1; 2 x 2 recessed mounted LED Lighting Fixture	set	140.00				
1118	1118 (1m)	type B1; 2 x 2 recessed mounted LED Lighting Fixture connected to Emergency Power	set	71.00				
1118	1118 (1n)	type C1; recessed Downlight LED Lighting Fixture	set	84.00				
1118	1118 (1o)	type C1; recessed Downlight LED Lighting Fixture connected to Emergency Power	set	57.00				
1118	1118 (1p)	type C2; recessed Downlight LED Lighting Fixture	set	6.00				
1118	1118 (1r)	type C3; recessed Downlight LED Lighting Fixture	set	157.00				
1118	1118 (1s)	type C3; recessed Downlight LED Lighting Fixture connected to Emergency Power	set	55.00				
1118	1118 (1t)	type C4; recessed Downlight LED Lighting Fixture	set	53.00				
1118	1118 (1u)	type C4; recessed Downlight LED Lighting Fixture connected to Emergency Power	set	66.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1118	1118 (1v)	type C5; wall washer LED Lighting Fixture	set	273.00				
1118	1118 (1x)	type C6; bulkhead type fixture (100-240V 10 W 6500K 1100 Lm IP 66, Lifetime 50,000 hrs.,	set	16.00				
1118	1118 (1y)	type C6; bulkhead type fixture (100-240V 10 W 6500K 1100 Lm IP 66, Lifetime 50,000 hrs. connected to emergency power	set	6.00				
1118	1118 (1z)	type C7; Well Glass LED (100-240V, 37 W 6500K 3700 Lm IP 65, Lifetime 50,000 hrs.	set	14.00				
1118	1118 (1aa)	LED Striplight (Escalator)	m	200.00				
1118	1118 (1ab)	Exit Light	set	86.00				
		Lighting Control Panel (LCP); including Busbar, Neutral bus, selector switch, contactors, relays, integral surge protection devices (SPD), phase indicating lights, power meters and auxilliary contacts for BMS interconnection and all necessary accessories in accordance with the manufacturer's instructions and as shown in drawings with reference STN-MEP-ELL-OS-3100 to 3244						
1119	1119	Lighting Control Panel (LCP)	assy	7.00				
		Allow for the provision of :						
		Lighting fixtures for Elevator Car including necessary controls, conduits and wirings as required						
1120	1120	Supply and Fix specified or approved equal field devices and accessories; reference STN-MEP-ELL-OS-3100 to	item	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		3244						
		Allow for the provision of :						
1121	1121 (a)	Tunnel lightings and outlet including necessary controls, conduits and wirings as required	lot	1.00				
		Switches						
1120	1120 (1a)	1 gang, light switch, flush mounted, 1 pole, 15 A, 250V	nr	14.00				
1119	1119 (1)	Presence Detector (PD)	nr	93.00				
1120	1120 (1b)	lighting switch, 1-way (emergency lighting)	nr	58.00				
1120	1120 (1c)	presence detector bypass switch	nr	44.00				
		Receptacle outlets						
1120	1120 (2a)	10A Surfaced Mounted switched socket outlet (Metal Clad)	set	40.00				
1120	1120 (2b)	10A Surfaced Mounted twin switched socket outlet (Metal Clad)	set	94.00				
1120	1120 (2c)	10A Surfaced Mounted twin switched socket outlet (Metal Clad) on UPS Supply	set	44.00				
1120	1120 (2d)	10A Fused Connection Unit complete with switch for Hand dryer	set	7.00				
1120	1120 (2e)	10A Fused Connection Unit complete with switch for Fan Coil Unit	set	17.00				
1120	1120 (2f)	10A Surfaced Mounted switched socket outlet (Metal Clad) on UPS Supply	set	23.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1120	1120 (2g)	16A Surfaced Mounted switched socket outlet (Metal Clad)	set	95.00				
1120	1120 (2h)	16A Surfaced Mounted socket outlet without switch (Metal Clad)	set	12.00				
1120	1120 (2i)	10A Fused Connection Unit complete with switch	set	53.00				
1120	1120 (2k)	10A Fused Connection Unit complete with switch for MSFD & MOD (Metalclad type)	set	105.00				
		Grounding System						
		Copper Tape; including necessary connectors, exothermic welds, accessories and welds/ bonds to structure to complete the system; reference STN-MEP-ELL-OS-2031, 3410 to 3444						
1109	1109 (1a)	25mm x 3mm	m	800.00				
1109	1109 (1b)	25mm x 6mm	m	3,300.00				
1109	1109 (1c)	40mm x 6mm	m	500.00				
		Copper Cable; including necessary connectors, exothermic welds, accessories and welds/ bonds to structure to complete the system; reference STN-MEP-ELL-OS-2031, 3410 to 3444						
1109	1109 (2)	125 sq.mm	m	800.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Grounding Mat; including necessary connectors, exothermic welds, accessories and welds/ bonds to structure to complete the system; reference STN-MEP-ELL-OS-2031, 3401 to 3444						
1109	1109 (3)	400mm2 Copper Strip	By Civil Contractor					
		Grounding Electrode; including necessary connectors, pits, accessories and welds to structure; reference STN-MEP-ELL-OS-2031, 3401 to 3444						
1109	1109 (4)	20mm diameter x 3000mm long ground rod	By Civil Contractor					
		Grounding Terminal; including Enclosures, insulators and the likes with to reference STN-MEP-ELL-OS-2031, 3441 to 3444						
1109	1109 (5a)	Main Equipment Grounding terminal; reference STN-MEP-ELL-OS-2031, 3401 to 3444	set	2.00				
1109	1109 (5b)	Grounding terminal for HV,LV & ELV; reference STN-MEP-ELL-OS-2031, 3410 to 3444	set	5.00				
1109	1109 (5c)	Grounding terminal; reference STN-MEP-ELL-OS-2031, 3410 to 3444	set	54.00				
		Lightning protection System						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Copper Tape; including necessary connectors, exothermic welds, accessories and welds/ bonds to structure to complete the system; reference STN-MEP-ELL-OS-2031, 3400 to 3444						
1122	1122 (1a)	25mm x 3mm	m	60.00				
		Lightning Grounding Pit; including necessary connectors, accessories and welds ground wells; including 20mm diameter x 3000mm long ground rod reference; reference STN-MEP-ELL-OS-2031, 3401 to 3444						
1122	1122 (3)	Lightning Grounding Pit	set	2.00				
		ESE Air Terminal; complete with necessary accessories as complete						
1122	1122 (4)	Air Terminal (ESE type); complete with pole, mounting brackets, guy wires and all other necessary supports and accessories; reference STN-MEP-ELL-OS-2031, 3400 to 3444	set	2.00				
		Lightning Flash Counter; complete with necessary accessories as complete						
1122	1122 (5)	Lightning Flash Counter; reference STN-MEP-ELL-OS-2031	set	2.00				
		Telephone and Broadband Distribution System						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Cable tray/trunking; including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-OS-2044						
1126	1126 (1a)	100mm x 100mm (for telephone)	m	300.00				
1126	1126 (1b)	200mm x 100mm (for telephone)	m	100.00				
1126	1126 (1c)	100mm x 100mm (for Building Cabling System (BCS))	m	100.00				
1126	1126 (1d)	150mm x 100mm (for Building Cabling System (BCS))	m	100.00				
1126	1126 (1e)	300mm x 100mm (for Building Cabling System (BCS))	m	200.00				
		Cable Ladder; including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-OS-2044						
		100mm x 100mm	m	100.00				
		Approved Telephone system riser cables						
		10 pairs UTP Cat 5E Cable	m	100.00				
		25 pairs UTP Cat 5E Cable	m	100.00				
		50 pairs UTP Cat 5E Cable	m	100.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Conduit points in Intermediate Metallic Conduit (IMC) including all necessary fittings and accessories as well as hangers and supports						
		From Intermediate Distribution Frame (IDF) to individual workstation/ node outlets						
1126	1126 (4a)	telephone outlet mounted flushed with floor finishes	nr	12.00				
1126	1126 (4b)	telephone outlet; floor mounted	nr	40.00				
		UTP Cat6 LSOH/FRT cables drawing into conduits (conduits measured separately) including necessary cable tagging						
		From Intermediate Distribution Frame (IDF) to individual workstation/ node outlets						
1126	1126 (5a)	telephone outlet mounted flushed with floor finishes	nr	12.00				
1126	1126 (5b)	telephone outlet; floor mounted	nr	40.00				
		Supply and fix specified or approved equal field devices and accessories						
1126	1126 (6a)	telephone outlet mounted flushed with floor finishes	set	12.00				
1126	1126 (6b)	telephone outlet; floor mounted	set	40.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described excluding active/core switches; reference STN-MEP-ELV-OS-2044						
1126	1126 (7)	Main Distribution Frame (MDF) including equipment rack and all necessary accessories	set	1.00				
1126	1126 (8)	Intermediate Distribution Frame (IDF) (6ways) complete with 100 pair block terminal cable termination	set	2.00				
		Local Area Network (LAN) System						
		Cable tray; including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-3671 to 3682						
		100mm x 100mm	m	300.00				
		Cable Ladder; including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-3671 to 3682						
1127	1127 (2a)	100mm x 100mm	m	20.00				
		Approved SCS system riser cables						
		Drawing into conduits(conduits measured separately)						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1127	1127 (3b)	1-24 cores Fiber Optic Cable	item	1.00				
		Conduit points in Intermediate Metallic Conduit (IMC) including all necessary fittings and accessories as well as hangers and supports						
		From Fiber terminal box (FTB) to individual workstation/ node outlets						
1127	1127 (4)	local area network (LAN) outlet points	nr	81.00				
		UTP Cat6 LSOH/FRT cables drawing into conduits (conduits measured separately) including necessary cable tagging						
		From Intermediate Distribution Frame (IDF) to individual workstation/ node outlets						
1127	1127 (5)	local area network (LAN) outlet points	nr	81.00				
		Supply and fix specified or approved equal field devices and accessories						
1127	1127 (6)	local area network (LAN) outlet points	set	81.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described excluding active/core switches; reference STN-MEP-ELL-OS-						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		2044						
1127	1127 (7)	Intermediate Distribution Frame (IDF) (6ways) complete with 100 pair block terminal cable termination	set	3.00				
		MATV System						
		Cable Ladder; including all necessary fittings and accessories as well as hangers and supports						
1125	1125 (1)	50 x 50mm	m	500.00				
		Approved MATV system riser cables						
		Drawing into conduits(conduits measured separately)						
1125	1125 (2)	1-RG11 Coaxial in 25mm PVC	item	1.00				
		Conduit points in Rigid Polyvinyl Chloride (PVC) including all necessary fittings and accessories as well as hangers and supports						
		From MATV Pullbox to						
1125	1125 (3)	TV outlet points	nr	19.00				
		RG6 Coaxial cables drawing into conduits (conduits measured separately) including necessary cable tagging						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		From MATV Pullbox to						
1125	1125 (4)	TV outlet points	nr	19.00				
		Supply and fix specified or approved equal field devices and accessories						
1125	1125 (5)	TV Outlet	set	19.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described						
1125	1125 (6)	MATV Head end Equipment (Amplifier and Boosters)	set	7.00				
1125	1125 (7)	Pullbox	set	8.00				
		Access Control System						
		Cable tray; including all necessary fittings and accessories as well as hangers and supports; reference STN-MEP-ELV-OS-3641 to 3661						
1124	1124 (1a)	50mm x 50mm (ACS)	m	700.00				
		Approved Access Control system riser cables						
		Drawing into conduits(conduits measured separately)						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1124	1124 (2)	sized and typed as required	item	1.00				
		Conduit points in Intermediate Metallic Conduit (IMC) including all necessary fittings and accessories as well as hangers and supports						
		From access control pullbox to						
1124	1124 (3a)	Break Glass points	nr	34.00				
1124	1124 (3b)	Card Access Reader points	nr	34.00				
1124	1124 (3c)	Door Contact points	nr	58.00				
1124	1124 (3d)	Door Controller points	nr	34.00				
1124	1124 (3e)	Electromagnetic Lock points	nr	58.00				
1124	1124 (3f)	Push Button points	nr	34.00				
		Approved wires/cables drawing into conduits (conduits measured separately) including necessary cable tagging						
		From access control pullbox to						
1124	1124 (4a)	Break Glass points	nr	34.00				
1124	1124 (4b)	Card Access Reader points	nr	34.00				
1124	1124 (4c)	Door Contact points	nr	58.00				
1124	1124 (4d)	Door Controller points	nr	34.00				
1124	1124 (4e)	Electromagnetic Lock points	nr	58.00				
1124	1124 (4f)	Push Button points	nr	34.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Supply and fix specified or approved equal field devices and accessories						
1124	1124 (5a)	Break Glass	set	34.00				
1124	1124 (5b)	Card Access Reader	set	34.00				
1124	1124 (5c)	Door Contact	set	58.00				
1124	1124 (5d)	Door Controller	set	34.00				
1124	1124 (5e)	Electromagnetic Lock	set	58.00				
1124	1124 (5f)	Push Button	set	34.00				
		Supply and fix the following items; including all necessary accessories in accordance with the manufacturer's instructions and as described						
1124	1124 (6)	Door Access Controller Server including necessary POE Network switch Hub and Access Control System Workstation with card enrollment reader and printer	set	1.00				
		Fire Detection and Alarm System (FDAS)						
		Electrical Metallic Tubing (EMT) conduit; including all necessary fittings and accessories as well as hangers and supports						
1123	1123 (1)	size as required	item	1.00				
		Approved FDAS system riser cables						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Drawing into conduits(conduits measured separately)						
1123	1123 (2)	type and size as required	item	1.00				
		Conduit points in Intermediate Metallic Conduit (IMC) including all necessary fittings and accessories as well as hangers and supports						
		From FACP to						
1123	1123 (3a)	smoke detector points	nr	437.00				
1123	1123 (3b)	combination detector points	nr	258.00				
1123	1123 (3c)	annunciator panel points	nr	3.00				
1123	1123 (3d)	manual call point points	nr	35.00				
1123	1123 (3e)	hooter with strobelight points	nr	35.00				
1123	1123 (3f)	control module points	nr	95.00				
1123	1123 (3g)	relay module points	nr	11.00				
1123	1123 (3i)	monitor module points	nr	24.00				
1123	1123 (3j)	fault isolator module points	nr	45.00				
1123	1123 (3l)	fireman telephone module points	nr	19.00				
1123	1123 (3m)	firefighting telephone points	nr	3.00				
		Approved FDAS wires/ cables drawing into conduits (conduits measured separately) including necessary cable tagging						
		From FACP to						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
1123	1123 (4a)	smoke detector points	nr	437.00				
1123	1123 (4b)	combination detector points	nr	258.00				
1123	1123 (4c)	annunciator panel points	nr	3.00				
1123	1123 (4d)	manual call point points	nr	35.00				
1123	1123 (4e)	hooter with strobelight points	nr	35.00				
1123	1123 (4f)	control module points	nr	95.00				
1123	1123 (4g)	relay module points	nr	11.00				
1123	1123 (4i)	monitor module points	nr	24.00				
1123	1123 (4j)	fault isolator module points	nr	45.00				
1123	1123 (4l)	fireman telephone module points	nr	19.00				
1123	1123 (4m)	firefighting telephone points	nr	3.00				
		Supply and fix specified or approved equal field devices and accessories as shown in drawings with reference STN-MEP-ELL-OS-2101 to 2104, 3101-3134						
1123	1123 (5a)	addressable smoke detector (above false ceiling)	set	191.00				
1123	1123 (5b)	addressable smoke detector (below false ceiling)	set	246.00				
1123	1123 (5c)	addressable combination detector	set	258.00				
1123	1123 (5d)	annunciator panel	set	3.00				
1123	1123 (5e)	manual call point	set	35.00				
1123	1123 (5f)	hooter with strobelight	set	35.00				
1123	1123 (5g)	control module	set	95.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		SUB-TOTAL (ELECTRICAL AND AUXILIARY INSTALLATION)						
		WET PIPE SPRINKLER SYSTEM						
		Black Steel pipes and fittings; seamless, schedule 40; conforming to ASME B31.1 power piping code, JIS G 3454, jointing in accordance with designer's specification						
		To walls and chased						
	1202(2)	65mm diameter	lm	34.00				
	1202(3)	extra over for elbow	pc	6.00				
	1202(3)	extra over for tee reducer	pc	6.00				
	1202(3)	extra over for reducer	pc	6.00				
	1202(2)	80mm diameter	lm	100.00				
	1202(3)	extra over for tee	pc	14.00				
	1202(3)	extra over for tee reducer	pc	16.00				
	1202(3)	extra over for reducer	pc	15.00				
	1202(2)	200 mm diameter	lm	34.00				
	1202(3)	extra over for elbow	pc	1.00				
	1202(3)	extra over for tee reducer	pc	2.00				
		To ceiling and suspended						
	1202(1)	25 mm diameter	lm	1,000.00				
	1202(1)	32 mm diameter	lm	155.00				
	1202(1)	40 mm diameter	lm	211.00				
	1202(1)	50 mm diameter	lm	138.00				
	1202(2)	65 mm diameter	lm	310.00				
	1202(3)	extra over for elbow	pc	20.00				
	1202(3)	extra over for tee	pc	6.00				

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202(3)	extra over for tee reducer	pc	42.00				
	1202(3)	extra over for reducer	pc	21.00				
	1202(2)	80 mm diameter	lm	418.00				
	1202(3)	extra over for elbow	pc	47.00				
	1202(3)	extra over for tee	pc	5.00				
	1202(3)	extra over for tee reducer	pc	16.00				
	1202(3)	extra over for reducer	pc	10.00				
	1202(2)	100 mm diameter	lm	305.00				
	1202(3)	extra over for elbow	pc	8.00				
	1202(3)	extra over for tee	pc	2.00				
	1202(3)	extra over for tee reducer	pc	13.00				
	1202(3)	extra over for reducer	pc	11.00				
	1202(2)	150 mm diameter	lm	215.00				
	1202(3)	extra over for elbow	pc	15.00				
	1202(3)	extra over for tee	pc	1.00				
	1202(3)	extra over for tee reducer	pc	8.00				
	1202(3)	extra over for reducer	pc	3.00				
	1202(2)	200 mm diameter	lm	271.00				
	1202(3)	extra over for elbow	pc	7.00				
	1202(3)	extra over for tee	pc	3.00				
	1202(3)	extra over for tee reducer	pc	14.00				
	1202(3)	extra over for reducer	pc	6.00				
		To floors						
	1202(1)	50 mm diameter	lm	4.00				
	1202(2)	200 mm diameter	lm	31.00				
	1202(3)	extra over for elbow	pc	6.00				
	1202(2)	250 mm diameter	lm	10.00				
	1202(3)	extra over for elbow	pc	4.00				
	1202(3)	extra over for tee reducer	pc	5.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202(3)	extra over for end cap/flanged	pc	2.00				
	1202(2)	300 mm diameter	lm	13.00				
	1202(3)	extra over for tee reducer	pc	4.00				
	1202(3)	extra over for end cap/flanged	pc	2.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Sprinkler heads						
	1202(5)	Standard pendent type sprinkler head; chrome finish; with intermediate temperature rating	pc	393.00				
	1202(5)	Upright type sprinkler head; chrome finish; with intermediate temperature rating	pc	76.00				
	1202(5)	Sidewall type sprinkler head; chrome finish; with intermediate temperature rating	pc	4.00				
		Fire Hose Cabinets						
		Standard surface mounted fire hose cabinet assembly; including full flush or surface mounting door with aluminum for all glass place; gauge 18 steel frame and box with powder coated finishes; 40mm diameter angle type valve; 40mm x 30m long double jacket rubber						
	1202(4)	as shown and described, ref. FHC type 1	pc	18.00				
	1202(4)	as shown and described, ref. FHC type 2	pc	7.00				
		Automatic Air Vent						
	1202(4)	fixing to 150mm diameter pipe	pc	6.00				
		Auxiliary drain valve						

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					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202(4)	50 mm diameter	pc	6.00				
		Butterfly Valve						
	1202(4)	50 mm diameter	pc	1.00				
	1202(4)	100 mm diameter	pc	1.00				
	1202(4)	200 mm diameter	pc	4.00				
	1202(4)	250 mm diameter	pc	2.00				
		Check Valve						
	1202(4)	100 mm diameter	pc	1.00				
	1202(4)	150 mm diameter	pc	7.00				
	1202(4)	200 mm diameter	pc	1.00				
		Flexible connector						
	1202(4)	200 mm diameter	pc	6.00				
		Floor control valve; butterfly type with electrical contacts						
	1202(4)	150 mm diameter	pc	6.00				
		Hose Box						
	1202(4)	150 mm diameter	pc	2.00				
		In line inspector's sight glass						
	1202(4)	25 mm diameter	pc	6.00				
		Inspector's test valve						
	1202(4)	25 mm diameter	pc	6.00				
		Landing valve (LV) including chain and cap						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202(4)	65mm diameter	pc	8.00				
		Motorized Valve						
	1202(4)	150 mm diameter	pc	4.00				
		Pressure Gauge						
	1202(4)	fixing to 150mm diameter in FCV assembly	pc	12.00				
	1202(4)	fixing to 65mm diameter in pump room (JP)	pc	2.00				
	1202(4)	fixing to 150mm diameter in Pump room (FP)	pc	2.00				
		Supervisory switches						
	1202(4)	fixing to 150 mm diameter BI pipe	pc	6.00				
		Vortex Plate						
	1202(4)	600 x 600 mm	pc	1.00				
		Water Flow Switches; including drilling to BI pipe						
	1202(4)	fixing to 150 mm diameter BI pipe	pc	6.00				
	1202(4)	fixing to 200 mm diameter BI pipe	pc	-				
		Wye Strainer						
	1202(4)	50 mm diameter	pc	1.00				
	1202(4)	Fire department Connection 100mm x 65mm diameter inlet connection; cast brass with plug spring check snoots; complete with plug and chains to match Fire Department requirements	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Allow for the provision of						
		Electrical connection from floor control assembly to FACP riser including wires, conduits and all necessary accessories to complete the system	item	1.00				
	1202(4)	Drainpipe connection to sump pit	item	1.00				
		FIRE EXTINGUISHER						
		The following items to be supplied and fixed; including all necessary accessories in accordance with designer's instruction						
		Portable fire extinguisher; including supporting frames or brackets and all other necessary accessories						
	1202(9)	FEX - Dry Chemical type, ABC class, 4.54kg	pc	79.00				
	1202(7)	FEX - CO2 type, 4.54kg	pc	17.00				
	1202(9)	WFEX - Dry chemical type, ABC class, 22.68kg	pc	1.00				
	1202(7)	WFEX - CO2 type, 22.68kg	pc	1.00				
		Fire extinguisher cabinet, stainless body including 1/8" breakable glass with YS221 glass frame, push lock, supporting frames, brackets and all other necessary accessories for fixing as shown and as described						
	1202(10)	Type 1	pc	12.00				
	1202(10)	Type 2	pc	10.00				
	1202(10)	Type 3	pc	74.00				
		CLEAN GAS FIRE SUPPRESSION SYSTEM						

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 STATION E&M WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Allow for the provision of						
	1239(1)	Clean agent fire suppression system including pipes, fittings, control valves, devices, sensors, actuators, annunciator, wirings, conduits, control panel, clean agent tank and all other necessary accessories to complete the system						
		Location, as shown and described on plan	set	1.00				
		TUNNEL FIRE PROTECTION						
		Black Steel pipes and fittings; seamless, schedule 40; conforming to ASME B31.1 power piping code, JIS G 3454, jointing in accordance with designer's specification						
	1202(13) a8	150 mm diameter	lm	2,400.00				
	1202 (14) a8	extra over for elbow	pc	28.00				
	1202 (15) a8	extra over for tee	pc	12.00				
		Pipeworks and ancillaries including flanges and all necessary accessories and connections						
		Check Valve						
	1201 (14) a10	150 mm diameter	pc	4.00				
		Automatic Air Vent						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1202 (7) a3	mounting to 150 mm diameter	pc	4.00				
		Landing valve, double nozzle including cap and chain						
	1202 (7) a3	150 mm diameter	pc	12.00				
		Tunnel Fire hose box including 4 nos of fire hose complete with hose coupling						
	1202 (7) a3	Dimension as required	pc	12.00				
		SUB-TOTAL (FIRE PROTECTION SERVICES)						
		TRANSPORT						
		Supply, delivery and installation of specified or approved equal equipment and ancillaries in compliance with the Bid documents						
		Elevators; machine room-less (MRL), complete with machines, controllers, safety devices, guide rails, counter weights, electrical/control wiring and conduits; including all necessary accessories and connections						
	1203(1)	PE-1; Passenger Elevator, 1600kg, 2stops/openings, front opening, 10.18m traveling ht, 60 m/m speed,	set	1.00				
	1203(1)	PE-2; Passenger Elevator, 1600kg, 3stops/openings, front and rear opening; 11.54m traveling ht, 60 m/m speed	set	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Escalators; complete with machines, controllers, safety devices, guide rails, electrical/control wiring and conduits; including all necessary accessories and connections						
	1233(1)	ESCA-1, semi-indoor type, 4.05m rise, 1550mm width, 30° inclination, 0.5mps-0.75mps, changeable speed, with post type sensor	set	1.00				
	1233(1)	ESCA-2, semi-indoor type, 3.3m rise, 1550mm width, 30° inclination, 0.5mps-0.75mps, changeable speed, with post type sensor	set	1.00				
	1233(1)	ESCA-3 , semi-indoor type, 11.7m rise, 1550mm width, 30° inclination, 0.5mps-0.75mps, changeable speed, with post type sensor	set	1.00				
	1233(1)	ESCA- 4&5, indoor type, 7.95m rise, 1500mm width, 30° inclination, 0.5mps-0.75mps, changeable speed, with post type sensor	set	2.00				
	1233(1)	ESCA-6-9, indoor type, 11.54m rise, 1550mm width, 30° inclination, 0.5mps-0.75mps, changeable speed, with post type sensor	set	4.00				
		SUB-TOTAL (VERTICAL TRANSPORT)						
		PLUMBING AND SANITARY WORKS						
		Storm drainage system						
		Ductile Iron (DI) pipes and fittings; conforming to ANSI A21, A10, 11,50 and 51 class 56; jointing in accordance with designer's specification						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		To walls and chased						
	1235(3)	75mm diameter	lm	21.00				
	1235(3.1)	extra over for elbow	pc	3.00				
	1235(3)	150mm diameter	lm	24.00				
	1235(3.1)	extra over for tee	pc	1.00				
	1235(3.1)	extra over for tee reducer	pc	3.00				
	1235(3.1)	extra over for end cap/flanged	pc	2.00				
		To ceiling and suspended						
	1235(3)	150mm diameter	lm	108.00				
	1235(3.1)	extra over for elbow	pc	15.00				
		Polyvinyl Chloride (PVC) pipes and fittings; series 1000: jointing in accordance with designer's specification						
		In trenches						
	1235(1.1)	75mm diameter	lm	30.00				
	1235(1)	200mm diameter	lm	45.00				
		To walls and pipe chased						
	1235(1)	200mm diameter	lm	24.00				
	1235(1.1)	extra over for elbow	pc	8.00				
		To ceiling and suspended						
	1235(1)	100mm diameter	lm	110.00				
	1235(1.1)	extra over for elbow	pc	56.00				
		Cast Iron (CI) pipes and fittings; jointing in accordance with designer's specification						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		To walls and chased						
	1235(2)	100mm diameter	lm	964.00				
	1235(2.1)	extra over for elbow	pc	188.00				
	1235(2.1)	extra over for wye	pc	121.00				
		To ceiling and suspended		-				
	1235(2)	100mm diameter	lm	1,234.00				
	1235(2.1)	extra over for elbow	pc	318.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Gate valve						
	1235(5)	75mm diameter	pc	3.00				
		Flexible Connector						
	1235(5)	75mm diameter	pc	3.00				
		Non-return Valve						
	1235(5)	75mm diameter	pc	3.00				
		Pressure Gauge						
	1235(5)	fixing to sump pump	pc	3.00				
		Floor Cleanout; complete with cover; setting to concrete; making around with approved grouting						
	1235(5)	100mm diameter	pc	6.00				
		Drains including adaptors and p-trap as required; setting in concrete; making good around with approved grouting						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Floor drain						
	1235(5)	100mm diameter	pc	159.00				
		Scupper drain						
	1235(5)	100mm width	pc	31.00				
		Trench drain						
	1235(5)	100 mm diameter	pc	12.00				
		Trench Grating						
	1235(6)	300mm width	lm	312.00				
		Area Drain/Catch Basin						
	1235(5)	dimension as required	pc	5.00				
		Oil Grease Trap (OGT)						
	1235(5)	OS-UL-OGT-01; Retention Capacity of 50 with a flow rate of 95gal/min	pc	1.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1201(2)	OS-UPL-WWP-01, 02 & 03; Waste Water Sump Pump; 7 L/s @ 37 m TDH, 7.5KW running load; 22.5kW connecting load; 3 phase; 380Volts; 60Hz (2W,1S)	set	1.00				
		Works to existing main storm drainage line including pipes, connections and all other necessary works						
	1235(1)	200mm diameter PVC pipes	item	1.00				
		Allow for the provision of						
	1235(5)	Roof Drain at Street Level Entrance	item	1.00				
		SEWAGE SYSTEM						
		Ductile Iron (DI) pipes and fittings; conforming to ANSI A21, A10, 11,50 and 51 class 56; jointing in accordance with designer's specification						
		To walls and chased						
	1234(3)	75mm diameter	lm	26.00				
	1234(3.1)	extra over for elbow	pc	2.00				
	1234(3)	100mm diameter	lm	12.00				
	1234(3.1)	extra over for elbow	pc	2.00				
	1234(3)	150mm diameter	lm	8.00				
	1234(3.1)	extra over for elbow	pc	2.00				
		To ceiling and suspended						
	1234(3)	75mm diameter	lm	157.00				
	1234(3.1)	extra over for elbow	pc	18.00				
	1234(3)	100mm diameter	lm	300.00				
	1234(3.1)	extra over for elbow	pc	14.00				
	1234(3)	150mm diameter	lm	80.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1234(3.1)	extra over for elbow	pc	11.00				
	1234(3.1)	extra over for tee	pc	1.00				
	1234(3.1)	extra over for tee reducer	pc	14.00				
	1234(3.1)	extra over for end cap/flanged	pc	8.00				
	1234(3)	200mm diameter	lm	4.00				
		Polyvinyl Chloride (PVC) pipes and fittings; series 1000 / SDR34, jointing in accordance with designer's specification						
		To walls and pipe chased						
	1234(1)	50mm diameter	lm	85.00				
	1234(1)	100mm diameter	lm	53.00				
	1234(1.1)	extra over for elbow	pc	2.00				
		To ceiling and suspended						
	1234(1)	50mm diameter	lm	99.00				
	1234(1)	75mm diameter	lm	77.00				
	1234(1.1)	extra over for elbow	pc	85.00				
	1234(1.1)	extra over for wye	pc	1.00				
	1234(1.1)	extra over for reducing wye	pc	10.00				
	1234(1.1)	extra over for reducer	pc	44.00				
	1234(1)	100mm diameter	lm	954.00				
	1234(1.1)	extra over for elbow	pc	137.00				
	1234(1.1)	extra over for wye	pc	36.00				
	1234(1.1)	extra over for wye reducer	pc	44.00				
	1234(1.1)	extra over for tee	pc	4.00				
	1234(1.1)	extra over for tee reducer	pc	17.00				
	1234(1)	150mm diameter	lm	45.00				
	1234(1.1)	extra over for elbow	pc	4.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1234(1.1)	extra over for tee	pc	1.00				
	1234(1.1)	extra over for wye	pc	1.00				
	1234(1.1)	extra over for wye reducer	pc	26.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Flexible connector						
	1234(4)	80mm diameter	pc	4.00				
		Gate valve						
	1234(4)	80mm diameter	pc	12.00				
		Check valve						
	1234(4)	80mm diameter	pc	4.00				
		Drains including adaptors and p-trap as required; setting in concrete; making good around with approved grouting						
		Floor drain						
	1234(4)	50mm diameter, PVC outlet	pc	35.00				
		Shower drain						
	1234(4)	50mm diameter, PVC outlet	pc	4.00				
		Floor Cleanout; complete with cover; setting to concrete; making around with approved grouting						
	1234(4)	75mm diameter	pc	2.00				
	1234(4)	100mm diameter	pc	12.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		COP						
	1234(4)	100mm diameter	pc	11.00				
	1234(4)	150mm diameter	pc	2.00				
		Vent cowl						
	1234(4)	75mm diameter	pc	3.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1201(3)	OS-MZ-SP-01 & 02; Sewage Ejector pit; 3.01 L/s @ 30 m TDH, 1.91KW running load; 3.82kW connecting load; 3 phase; 380Volts; 60Hz, (1W+1S)	set	1.00				
	1201(3)	OS-MZ-SP-03 & 04; Sewage Ejector pit; 8.03 L/s @ 35m TDH, 5.73KW running load; 11.46kW connecting load; 3 phase; 380volts; 60Hz (1W+1S)	set	1.00				
		Sewage Holding Tank, complete with pilings, fittings, flanges and all necessary accessories and connection to complete the system						
	1238(4)	Sewage ejector tank 1 ; stainless steel, dimensions: 2m x 2m X 2m ; (L x B x H) Capacity: 7.5m3	set	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1238(4)	Sewage ejector tank 2 ; stainless steel, dimensions: 2m x 2m X 2m ; (L x B x H) Capacity: 7.5m3	set	1.00				
		Works to existing main sewer line including pipes, connections and all other necessary works						
	1234(1)	200mm diameter PVC	item	1.00				
		Allow for the provision of						
	1236(1)	Sewage Treatment Plant, capacity as required ref drawing STN-MEP-PLD-OS-4307	item	1.00				
		WATER SUPPLY SYSTEM						
		Excavating trenches, backfilling with selected materials, disposal of surplus excavated materials offsite, and making good all works disturbed						
		for pipes less than 200mm diameter PPrC	lm	25.00				
		Bedding of pipes; including surround of pipes as necessary						
		for pipes less than 200mm diameter PPrC	lm	25.00				
		Polypropylene (PPrC) pipes and fittings, PN20, jointing in accordance with designer's specification						
		In trenches						
	1237(2)	20mm diameter	lm	5.00				
	1237(2)	32mm diameter	lm	5.00				
	1237(2)	100mm diameter	lm	15.00				
	1237(2.1)	extra over for elbow	pc	11.00				
	1237(2.1)	extra over for tee	pc	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		To walls and chased						
	1237(2)	15mm diameter	lm	80.00				
	1237(2)	20mm diameter	lm	313.00				
	1237(2)	25mm diameter	lm	186.00				
	1237(2)	32mm diameter	lm	52.00				
	1237(2)	40mm diameter	lm	37.00				
	1237(2)	100mmdiameter	lm	6.00				
	1237(2.1)	extra over for elbow	pc	2.00				
		To ceiling and suspended						
	1237(2)	15mm diameter	lm	15.00				
	1237(2)	20mm diameter	lm	126.00				
	1237(2)	25mm diameter	lm	19.00				
	1237(2)	32mm diameter	lm	101.00				
	1237(2)	40mm diameter	lm	60.00				
	1237(2)	50mm diameter	lm	36.00				
	1237(2)	65mmdiameter	lm	115.00				
	1237(2.1)	extra over for elbow	pc	4.00				
	1237(2.1)	extra over for tee	pc	1.00				
	1237(2.1)	extra over for tee reducer	pc	5.00				
	1237(2.1)	extra over for reducer	pc	4.00				
	1237(2)	75mm diameter	lm	75.00				
	1237(2.1)	extra over for tee reducer	pc	1.00				
	1237(2.1)	extra over for tee	pc	2.00				
	1237(2.1)	extra over for reducer	pc	2.00				
	1237(2)	100mmdiameter	lm	121.00				
	1237(2.1)	extra over for elbow	pc	19.00				
	1237(2.1)	extra over for tee	pc	5.00				
	1237(2.1)	extra over for tee reducer	pc	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1237(2.1)	extra over for reducer	pc	1.00				
		Galvanized Iron (GI) pipes and fittings, ERW, schedule 40, jointing in accordance with designer's specification						
		To floor						
	1237(1)	32mm diameter	lm	7.00				
	1237(1)	40mm diameter	lm	14.00				
	1237(1)	50mm diameter	lm	1.00				
	1237(1)	65mm diameter	lm	8.00				
	1237(1)	extra over for tee reducer	pc	8.00				
	1237(1)	extra over for end cap/flanged	pc	4.00				
	1237(1)	100mm diameter	lm	48.00				
	1237(1.1)	extra over for elbow	pc	24.00				
	1237(1.1)	extra over for tee	pc	11.00				
	1237(1)	150mm diameter	lm	21.00				
	1237(1)	150mm diameter	lm	21.00				
	1237(1.1)	extra over for tee reducer	pc	8.00				
	1237(1.1)	extra over for end cap/flanged	pc	4.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Ball Valve						
	1237(4)	15mm diameter	pc	6.00				
	1237(4)	20mm diameter	pc	2.00				
	1237(4)	25mm diameter	pc	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Bip tap (BT)						
	1237(4)	15mm diameter	pc	9.00				
		Butterfly Valve						
	1237(4)	20mm diameter	pc	8.00				
	1237(4)	25mm diameter	pc	5.00				
	1237(4)	32mm diameter	pc	3.00				
	1237(4)	40mm diameter	pc	6.00				
	1237(4)	50mm diameter	pc	2.00				
	1237(4)	65mm diameter	pc	1.00				
	1237(4)	100mm diameter	pc	8.00				
		Check Valve						
	1237(4)	40mm diameter	pc	2.00				
	1237(4)	100mm diameter	pc	2.00				
		Equalizing Valve						
	1237(4)	100mm diameter	pc	3.00				
		Flexible Connector						
	1237(4)	40mm diameter	pc	4.00				
	1237(4)	100mm diameter	pc	4.00				
		Float Valve						
	1237(4)	100mm diameter	pc	6.00				
		Gate valve						
	1237(4)	20mm diameter	pc	6.00				
	1237(4)	32mm diameter	pc	1.00				
	1237(4)	40mm diameter	pc	2.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1237(4)	75mm diameter	pc	6.00				
	1237(4)	100mm diameter	pc	10.00				
		Hand Faucet (HF)						
	1237(4)	15mm diameter	pc	32.00				
		Non-return valve						
	1237(4)	32mm diameter	pc	2.00				
	1237(4)	100mm diameter	pc	2.00				
		Overflow pipe assembly						
	1237(4)	100mm diameter	pc	6.00				
		Pressure Gauge						
	1237(4)	fixing to40mm diameter pipe	pc	2.00				
		Sub-meter						
	1237(4)	100mm diameter	pc	6.00				
		Water hammer arrester						
	1237(4)	20mm diameter	pc	8.00				
	1237(4)	25mm diameter	pc	6.00				
		Water meter						
	1237(4)	100mm diameter	pc	1.00				
		Wye strainer						
	1237(4)	40mm diameter	pc	2.00				
	1237(4)	100mm diameter	pc	3.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		The following items to be supplied and fixed; including taking, delivery on site, unloading or assisting to unload, unpacking, returning packing, storing, all sundry materials for fixing, be responsible for the safe custody of						
		Domestic water Tank; Stainless steel						
	1238(1)	50 cum capacity	set	2.00				
		Fire water Tank; stainless steel						
	1238(3)	98cum capacity	set	2.00				
		Make-up water Tank; stainless steel						
	1238(2)	45cum capacity	set	2.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1201(1)	OS-CON-DWP-01 & 02; 7.3 L/s hydro-pneumatic pump @ 30 m TDH; 5.73kW running load; 11.46kW connecting load; 3Ph; 380V; 60Hz; including 200L pressure vessel, with stainless steel tank	set	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
	1201(1)	OS-MZ-MWP-01 & 02; 0.7 L/s hydro-pneumatic pump@ 40 m TDH; 0.8kW running load; 1.6kW connecting load; 3Ph; 380V; 60Hz; including 200L pressure vessel, with stainless steel tank	set	1.00				
		Works to existing main water line including pipes, connections and all other necessary works						
	1237(2)	100mm diameter PPRC pipes	item	1.00				
		HOT WATER SUPPLY SYSTEM						
		Polypropylene (PPrC) pipes and fittings, PN20, jointing in accordance with designer's specification						
		To walls and chased						
	1237(2)	15mm diameter	lm	53.00				
	1237(2)	20mm diameter	lm	9.00				
		Pipeworks ancillaries including adaptors and flanges as required, all in accordance with technical specification						
		Gate valve						
	1237(4)	20mm diameter	pc	7.00				
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						

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 PHASE 1
 Bill NO.5B
 STATION E&M WORKS - ORTIGAS SOUTH**

No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		Water heater; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1237(5)	Electric water heater; 25L capacity; horizontal wall mounted, 2kW; 3ph; 380V; 60Hz, ref SL no.1	pc	2.00				
	1237(5)	Electric water heater; 15L capacity; horizontal wall mounted, 1.5kW; 3ph; 380V; 60Hz, ref SL no.2 to 4	pc	5.00				
		TUNNEL DRAINAGE SYSTEM						
		Supply and fix equipment and ancillaries; including taking delivery on site, unloading or assisting to unload, unpacking, returning packing storing, all sundry materials for fixing, be responsible for the safe custody of						
		Pumps; complete with driving motor, all necessary accessories and connection, electrical/control wirings, conduits and complete as in the equipment schedule and as described						
	1201(2)	OS-TUN-TSP-01&02; Tunnel Main Sump Pump; 1.88 L/s @ 24 m TDH, 1.12KW running load; 2.24kW connecting load; 3 phase; 380Volts; 60Hz (1W,1S)	set	1.00				
		Allow for the provision of						
		Tunnel drainage system pipeworks including fittings, valves, ancillaries and all other necessary accessories to complete the system	item	1.00				

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No.	PAY ITEM No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE		AMOUNT	
					LOCAL (PHP)	FOREIGN ()	LOCAL (PHP)	FOREIGN ()
		SUB-TOTAL (PLUMBING SERVICES)						
		GRAND TOTAL - STATION E & M (ORTIGAS SOUTH)						