PROJECT :	PROPOSED 2-STOREY ADVANCE MANUFACTURING CENTER											
LOCATION :	GEN. SANTOS AVE., BICUTAN, TAGUIG CITY, METRO MANILA									FIRE PROTECTION WORKS		

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
PART A	**EQUIPMENT AND ACCESSORIES**											
A.1	FIRE PUMP - (MOTOR -40HP,230V,3P,60HZ/PUMP – 500GPM,60m Head.		SET									
A.2	JOCKEY PUMP -(MOTOR – 3.0HP,230V,1P,60HZ/PUMP – 20GPM,60M)		SET									
A.3	FIRE PUMP CONTROLLER -(40HP,380V,3P,60HZ)		SET									
A.4	JOCKEY PUMP CONTROLLER – (3.0HP,230V,1P,60HZ)		SET									
A.5	FIRE HOSE CABINET		SET									
A.6	SPRINKLER HEAD											
	- UPRIGHT		PC									
	- PENDENT		PC									
A.7	FIRE EXTINGUISHER											
	20lbs		SETS									
	10lbs		SETS									
A.8	AUTOMATIC AIR VENT 2”		PC									
A.9	CLOSED WASTE CONE 4” X 3”		PC									
A.10	FIRE ALARM CHECK VALVE 4”		PC									
A.11	FLOW SWITCH 4”		PC									
A.12	FLEXIBLE RUBBER JOINT											
	4"		PC									
	2"		PC									
A.13	PRESSURE RELIEF VALVE 4”		PC									
A.14	CHECK VALVE											
	4"		PC									
	2"		PC									
A.15	GATE VALVE											
	4”		PC									
	2”		PC									
	1”		PC									
A.16	FLOOR CONTROL VALVE		PC									
A.17	BUTTERFLY VALVE		PC									
A.18	PRESSURE SWITCH		PC									
A.19	FIRE DEPARTMENT CONNECTION		PC									
A.20	TEST HEADER CONNECTION		PC									
	TOTAL PART A											
PART B	**PIPING INSTALLATION @ SITE DEV.PLAN**											
B.1	BLACK IRON PIPES SCH. 40											
	4”		LM									
	2”		LM									
B.2	B.I. ELBOW 90 DEG.											
	4”		PC									
	2”		PC									
B.3	B.I. TEE EQUAL											
	4” X 4” X 4”		PC									
B.4	B.I. COUPLING											
	2”		PC									
B.5	B.I. UNION PATENTE											
	2”		PC									
B.6	THREADOLET											
	2”		PC									
B.7	B.I. SLIP ON FLANGE		PC									
	TOTAL PART B											

	TOTAL SITE DEVT COST											
PART C	**PIPING INSTALLATION @ G/F LEVEL**											
C.1	BLACK IRON PIPES SCH. 40											
	4”		LM									
	2”		LM									
	1 1/4”		LM									
	1”		LM									
	3/4”		LM									
C.2	B.I. ELBOW 90 DEG.											
	4”		PC									
	2”		PC									
	1 1/4”		PC									
	1”		PC									
	3/4”		PC									
C.3	B.I. TEE EQUAL											
	4” X 4” X 4”		PC									
	2” X 2” X 2”		PC									
	1 1/4” X 1 1/4” X 1 1/4”		PC									
	1” X 1” X 1”		PC									
	3/4” X 3/4” X 3/4”		PC									
C.4	B.I. TEE REDUCER											
	2” X 1” X 2”		PC									
	2” X 3/4” X 2”		PC									
	1 1/2” X 3/4” X 1 ½”		PC									
	1” X 3/4” X 1”		PC									
C.5	B.I. COUPLING											
	2”		PC									
	1 ½		PC									
	1”		PC									
	3/4”		PC									
C.6	B.I. BELL REDUCER											
	2” X 1 1/4”		PC									
	2” X 1”		PC									
	2” X 3/4”		PC									
	1 1/4” X 1”		PC									
	1 1/4” X 3/4”		PC									
	1” X 3/4”		PC									
C.7	B.I. UNION PATENTE											
	2”		PC									
	1 ½		PC									
	1”		PC									
	3/4”		PC									
C.8	THREADOLET											
	2”		PC									
	1 1/4”		PC									
	1”		PC									
	3/4”											
C.9	B.I. SLIP ON FLANGE		PC									
	TOTAL PART C											
	TOTAL GROUND FLOOR											
PART D	**PIPING INSTALLATION @ 2F**											
D.1	BLACK IRON PIPES SCH. 40											
	4”		LM									
	2”		LM									
	1 1/4”		LM									

	1”		LM									
	3/4”		LM									
D.2	B.I. ELBOW 90 DEG.											
	4”		PC									
	2”		PC									
	1 1/4”		PC									
	1”		PC									
	3/4”		PC									
D.3	B.I. TEE EQUAL											
	4” X 4” X 4”		PC									
	2” X 2” X 2”		PC									
	1 1/4” X 1 1/4” X 1 1/4”		PC									
	1” X 1” X 1”		PC									
	3/4” X 3/4” X 3/4”		PC									
D.4	B.I. TEE REDUCER											
	2” X 1” X 2”		PC									
	2” X 3/4” X 2”		PC									
	1 1/4” X 3/4” X 1 1/4”		PC									
	1” X 3/4” X 1”		PC									
D.5	B.I. COUPLING											
	2”		PC									
	1 1/4”		PC									
	1”		PC									
	3/4”		PC									
D.6	B.I. BELL REDUCER											
	2” X 1 1/4”		PC									
	2” X 1”		PC									
	2” X 3/4”		PC									
	1 1/4” X 1”		PC									
	1 1/4” X 3/4”		PC									
	1” X 3/4”		PC									
D.7	B.I. UNION PATENTE											
	2”		PC									
	1 ½		PC									
	1”		PC									
	3/4”		PC									
D.8	THREADOLET											
	2”		PC									
	1 1/4”		PC									
D.9	B.I. SLIP ON FLANGE		PC									
	TOTAL PART D											
	TOTAL SECOND FLOOR											
PART E	**CONSUMABLES**											
E.1	ANGLE BAR											
	1 1/2” X 1 1/2” X 3 /16”		LM									
	1 1/4” X 1 1/4” X 3 /16”		LM									
E.2	FULL THREADED ROD											
	1 /2”		LM									
	3/8”		LM									
E.3	LOOP HANGER											
	2”		PC									
	1 1/4”		PC									
	1”		PC									
	3/4”		PC									
E.4	U – BOLT											
	4”		PC									
	2”		PC									
	1 1/4”		PC									
	1”		PC									

	3/4”		PC									
E.5	CLEVIS HANGER		PC									
E.6	GRIPT ANCHOR											
	1 /2”		PC									
	3/8”		PC									
E.7	RED OXIDE PAINT		GAL									
E.8	FIRE RED PAINT		GAL									
E.9	PAINT THINNER		GAL									
E.10	TEFLON TAPE		ROLL									
E.11	WELDING ROD											
	6011		KG									
	6013		KG									
E.12	G.I.HEX BOLT											
	1/2” 1 1/2”		PC									
	5/8” X 3 1/2”		PC									
E.13	NUT											
	1/2”		PC									
	5/8”		PC									
E.14	FLAT WASHER											
	1/2”		PC									
	5/8”		PC									
E.15	LOCK WASHER											
	1/2”		PC									
	5/8”		PC									
E.16	NEOPRENE RUBBER GASKET 6MM		M2									
E.17	ABBACA CLOATH INSULATION		M2									
E.18	GRINDING DISC 4”		M2									
	TOTAL PART E											
	TOTAL HANGERS AND SUPPORTS AND CONSUMABLES											
	GRAND TOTAL =											