



BATAAN GENERAL HOSPITAL
Balanga City, Bataan



**BILL OF MATERIALS AND LABOR FOR THE
INSTALLATION OF FIRE PROTECTION SYSTEM**

I DISMANTLING, CORING, CHIPPING AND RESTORATION WORKS

Php

II. WATER TANK AND PUMP HOUSE

Fire Water Tank	m ³	60	Php	-
Pump House	m ²	12		-
Material Cost				Php -
Labor Cost				-
Total Cost of Item				Php -

III. SPRINKLER SYSTEM

Pipes and Fittings

75mmØ B.I. Pipe Sch. 40	pc.	33	-
40mmØ B.I. Pipe Sch. 40	pc.	32	-
32mmØ B.I. Pipe Sch. 40	pc.	6	-
25mmØ B.I. Pipe Sch. 40	pc.	86	-
75mmØ B.I. Tee Sch. 40	pc.	3	-
25mmØ B.I. Tee Sch. 40	pc.	90	-
75mmØ x 40mmØ B.I. Tee Reducer Sch. 40	pc.	109	-
40mmØ x 32mmØ B.I. Tee Reducer Sch. 40	pc.	10	-
100mmØ x 75mmØ B.I. Tee Reducer Sch. 40	pc.	6	-
75mmØ x 40mmØ B.I. Tee Reducer Sch. 40	pc.	1	-
40mmØ x 25mmØ B.I. Tee Reducer Sch. 40	pc.	101	-
75mmØ Elbow 90° Sch. 40	pc.	6	-
40mmØ Elbow 90° Sch. 40	pc.	30	-
25mmØ Elbow 90° Sch. 40	pc.	75	-
Blind Flange 100mmØ	pc.	6	-
75mmØ B.I. End Cap Sch. 40	pc.	6	-

Sprinkler Heads, Valves, Connections and other accessories

OS & Y Gate Valve 100mmØ	pc.	3	-
Gate Valve 25mmØ	pc.	3	-
Fire Hose Cabinet Recessed Type with complete accessories	set	1	-
Sprinkler Heads (Pendent Type with Ceiling Plate) UL Listed	pc.	202	-

Hangers and Supports

Flexible Coupling 75mmØ	pc.	33	-
Clevis Hanger 75mmØ	pc.	42	-
Loop Hanger 25mmØ	pc.	129	-

Other Materials

Expansion Bolt 3/8"	pc.	210	-
Threaded Rod (Continuous) 3/8"	pc.	105	-
Hexagonal nut 3/8" with washer	pc.	600	-
Teflon Tape 3/4"	pc.	700	-
U-bolt 1/4" x 4" with Nut and Washer	pc.	6	-
U-bolt 1/4" X 3" with Nut and Washer	pc.	6	-
Angle Bar 1 1/2" x 1 1/2" x 1/8" thk	pc.	10	-
Consumables	lot	1	-

Material Cost	Php	-
Labor Cost		-
Total Cost of Item	Php	-

IV. PUMPS AND CONTROLLER

Fire Pump (Vertical Turbine)

-Vertical Turbine Pump shall be complete with discharge head assembly, air release, pressure gauge, coupled to an electric motor with WPI enclosure 445TP frame & other standard accesories. Fire pump shall be connected load to emergency generator.

- 500 gpm, 3650 rpm, 50 HP, 230 V, 3 PH, 60 Hz

Fire Pump Controller

set

1

-

- Fire Pump controller shall be wye delta reduced voltage starting open during transition from start to run, controllers shall be floor mounted on NEMA type 4 enclosure to include pump operating pilot lights, pump fail to start, pump over-load, alarm, test timer solenoid valve, UL/FM approved.

- 230 V, 3 PH, 60 Hz

Jockey Pump (Submersible Pump)

- Submersible Centrifugal Pump, electric driven motor, complete with standard accessories, UL/FM approved, Jockey pump shall be connected load to the emergency generator, enclosure shall be as per manufacturer's recommendation.

- 50 gpm, 3650 rpm, 5 HP, 230 V, 3 Ph, 60 Hz

Jockey Pump Controller

set

1

-

- Jockey Pump controller shall include the circuit breaker, over load relay, pressure switch, running period timer, all NEMA type enclosure, pressure recorder, power on pilot lights and other accessories, UL/FM approved.

- 230 V, 3 PH, 60 Hz

Material Cost	Php	-
Installation Cost		-
Total Cost of Item	Php	-

V. FIRE ALARM SYSTEM

8 Zone Fire Alarm Control Panel

set

1

-

4 Zone Fire Alarm Control Panel

set

1

-

Fire Alarm Manual Station

set

10

-

Conventional Smoke Detector

set

82

-

Conventional Heat Detector

set

2

-

Fire Alarm Box

set

1

-

Fire Alarm Bell

set

10

-

Junction Box

p.c.

83

-

Utility Box

p.c.

82

-

PVC Elec. Pipe 20mmØ

p.c.

490

-

Conduit Fittings

lot

1

-

1.25mm²,TF Wire

l.m.

2,940

-

Material Cost	Php	-
Labor Cost		-
Total Cost of Item	Php	-

VI. SIGNAGES AND MARKINGS

lot

VII. MOBILIZATION/ DEMOBILIZATION

lot

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