

PROJECT DESCRIPTION:

FACTORY(G), OFFICE(G+1), STORE AND DINING ROOM	
Classification of Occupancy STORE (STORAGE OCCUPANCIES) FACTORY (INDUSTRIAL OCCUPANCIES) OFFICE (BUSINESS OCCUPANCIES) PRAY HALL (ASSEMBLY OCCUPANCIES)	
type of Hazard	
Material Name	Hazard Classification
Air Strainers Electrical Wires Electrical Coordinator Pressure & temperature Controller Fans Power Generator Solar Cells Steel Mesh Batteries Cardboard Boxes Copper Coolers Large Size Compressors Air Fans OFFICE KITCHEN&pump room	Low Hazard Low HAZARD ORDINARY HAZARD GROUP I

AREA STATEMENT:

BUILT-UP AREA STATEMENTS:		
PLOT AREA FACTORY:	7074.00	M2
Ground Floor =	1989	sq...m
Mezzanine Floor (A) =	170	sq...m
Mezzanine Floor (A) =	43	sq...m
TOTAL BUILT UP AREA =	2202	sq...m
External Store =	160	sq...m
Pray Hall =	160	sq...m

BUILDING/TYPE OF CONSTRUCTION:

Minimum Construction Requirements
Fire Resistance Rating at Type II(222) Construction)

FIRE SAFETY NOTES/PROVISION:

Detection and Fire Alarm System to be Provided CONVENTIONAL TYPE in All Building visible Audible notification appliances Throughout in All Building																																
Extinguishments Requirements 1-Standpipe : class II fire hose reel PIPE 250 2-AUTOMATIC SPRINKLERS IN FACTORY BUILDING 3-Portable Fire Extinguisher System Throughout in All Building																																
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Ventilation KITCHEN, BATHROOMS & FACTORY BY EXHAUST FAN AND OTHER PLACES BY NATURAL AIR																																
Air-Conditioning Split or Window Type As Indication Drawing																																
Reference NFPA 101 CH 12 FOR (ASSEMBLY OCCUPANCY) NFPA 101 CH 38 FOR (BUSINESS OCCUPANCY) NFPA 101 CH 40 FOR (INDUSTRIAL OCCUPANCY) NFPA 101 CH 42 FOR (STORAGE OCCUPANCY) NFPA 10 CH 3 FOR (EXTINGUISHER)																																

THE FIRE SAFETY WORKS SHOWN ON THIS BUILDING PLAN AFFECT THE
*FIRE PROTECTION SYSTEM / FP PLAN
WILL BE SUBMITTED SEPARATELY WITHIN 45 DAYS FROM THE DATA
OF SUBMISSION OF THE BUILDING PLAN.

OCCUPANT LOAD CALCULATION

GROUND FLOOR
1989 /9.3 =214 PERSONS
FIRST FLOOR (OFFICES)
231/9.3 =25 PERSONS

*STORE:
STORE =(160/27.9)= 6 PERSON

Pray Hall
Pray Hall =(120*0.65)= 78 PERSON

EGRESS CAPACITY CALCULATION

FOR OFFICE
*STAIR WIDTH CALCULATION:
STAIR width required = total person x factor
stair width required = 25 x 7.62 =191 mm
stair width providing in building =3000 mm
so the stair width required is less than the stair width available
in building, SO, IT IS SAFE.

*TRAVEL DISTANCE:
Travel Distance at 1ST floor= 16.21m < 75m so, it is safe.
Travel Distance at FACTORY= 32.50m < 75m so, it is safe.

FOR FACTORY

*EXIT DOOR CALCULATION:
exit door width required = total person x factor
exit door width required =214 x 5=1070 mm
exit door width providing in building =2X2.40 M+1.40= 2800 mm
so the exit door width required is less than the exit door width available
in building, SO, IT IS SAFE.

FOR STORE

*EXIT DOOR CALCULATION:
exit door width required = total person x factor
exit door width required = 6 x 5=30 mm
exit door width providing in building =1X1.00 M= 2400 mm
so the exit door width required is less than the exit door width available
in building, SO, IT IS SAFE.

DOORS/WINDOWS/OPENINGS SCHEDULE:

SCHEDULE OF DOORS & WINDOWS FOR FACTORY & STORE-OFFICE					
TYPE	WIDTH	HEIGHT	QTY	SPECIFICATION	fr. hr
D1	170	2200	1	DOUBLE LEAF WOODEN DOOR	1 hr
D2	1000	2400	9	SMALL LEAF WOODEN DOOR	1 hr
D3	900	2400	7	SMALL LEAF WOODEN DOOR	-----
SD	700	5000	2	SMALL LEAF STEEL DOOR	-----
DF	1000	2200	2	SMALL LEAF STEEL DOOR	-----
W1	600	1800	12	ALUMINUM & GLASS	SLIDING
W2	600	4000	110	4 ALUMINUM & GLASS	SLIDING
W3	1000	1000	2000	2 ALUMINUM & GLASS	SLIDING
W4	1400	1000	2000	1 ALUMINUM & GLASS	SLIDING
W5	600	1200	800	2 ALUMINUM & GLASS	1 hr
W6	1000	1000	700	6 ALUMINUM & GLASS	1 hr
W7	1400	1000	700	1 ALUMINUM & GLASS	1 hr
W8	1000	1200	1000	4 ALUMINUM & GLASS	1 hr
W9	1200	1200	1000	6 ALUMINUM & GLASS	1 hr
W10	600	1800	4	ALUMINUM & GLASS	SLIDING

SCHEDULE OF DOORS & WINDOWS G.ROOM					
TYPE	WIDTH	HEIGHT	QTY	SPECIFICATION	REMARKS
D1	900	2200	0	1 SMALL LEAF WOODEN DOOR	HINGED
D2	900	2200	0	1 SMALL LEAF WOODEN DOOR	HINGED
W1	1200	1200	1000	2 ALUMINUM & GLASS	SLIDING & FIXED
W2	800	800	1700	1 ALUMINUM & GLASS	SLIDING & FIXED

DRAWING LIST

S.NO	sheet no.	Drawing Title	Scale	Paper Size
1	BP-00	PROJECT DETAILS	N.T.S	A1
2	BP-01	SITE PLAN	1:200	
3	BP-02	GROUND FLOOR PLAN	1:100	
4	BP-03	MEZZ FLOOR PLAN	1:100	
5	BP-04	ROOF FLOOR PLAN	1:100	
6	BP-05	ELEVATION AND GUARD ROOM	1:100	
7	BP-06	External Store AND Pray Hall & FIRE PUMP ROOM	1:100	
8	BP-07	CURTAIN WALL DETAILS	1:100	
9	BP-08	DETAILS	N.T.S	

LEGENDS AND SYMBOLS:

SYMBOLS	DESCRIPTION
—	2.00 HOUR FIRE RESISTANCE
▲	FIRE EXTINGUISHER
(AS)	AUTOMATIC SPRINKLERS
(NS)	NON SPRINKLERS
(SM) ②	SMOKE DETECTOR
(HT) ①	HEAT DETECTOR
□	CINSs Wet Hose Reel with cabin & portable fire extinguisher
N.V	NATURALLY VENTILATED
M.V	MECHANICALLY VENTILATED
EMERGENCY LIGHT AND EXIT SIGN	EMERGENCY LIGHT AND EXIT SIGN M.R. REF. EN1838:1 HOUR OPERATION, MAINTAINED LUMINOSITY, WITH EXIT SIGN IN BASIC AND ENGLISH CONSTRUCTION MADE OF POLYESTER COATED SHEET STEEL, WITH HIGH TEMPERATURE NICKEL Cadmium BATTERY
EXIT	EXIT
○	MANUAL CALL POINT
▶	SOUNDER BELL AND FLASHER LIGHTING
FB	FIRE PLANKET

(officer's signature)

PS NO.: 77464 (Reviewing Engineer's signature)

77464 DATE:

CONSULTANT'S ENDORSEMENT:

I KHALED MOHAMED an ARCHITECTURE ENGINEER with UPDA Registration No. 545, AS Grade A, being the Consultant hereby certify that the fire safety works shown on these plans has been designed in accordance with the provisions of NFPA 101 / 170 / 80 / 220 / 5000 and local fire safety codes or standards being imposed by QCD.

Further, I certify that I am fully aware and commit myself responsible to this project and all the conditions prescribed under the existing Law No. 19 of 2005, The Law Regulating the Practice of Engineering Profession in the State of Qatar.

Attached is my signature to attest to the above undertaking.

Khaled Mohamed
Al Aqsa Engineering Consultancy (Q.E.C.)
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UPDA Reg.No./Grade: 545/A Qatar ID No.: 27481802237

Validity: JUNE 6, 2014 Validity: MAY 04, 2014

UPDA Reg.No./Grade: 35/A Qatar ID No.: 26381800356

Validity: NOVEMBER 12, 2014 Validity: MAY 13, 2014

OWNER:

ENG. ADNAN FAHAD AL NAIMI

AGRI GREEN
FACTORY(G), OFFICE(G+1), STORE AND DINING ROOM

Location: INDUSTRIAL AREA PIN No.: 81050365

Area: 81 Street: --- PLOT NO. 9079

TITLE: FIRE SAFETY / BUILDING PLAN
PROJECT DETAILS

Revision: 03 Dwg. No.: B.P-00

Date: 09-2013