

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
JANAPATH, BHOINAGAR, BHUBANESWAR - 22
[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :- 01 AS PER IFB

NAME OF THE WORK :- SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF FIRE FIGHTING SYSTEM IN ADMINSTRATIVE BLOCK, P.G COUNCIL BLOCK, CENTRAL LIBRARY IN NEW CAMPUS AND LIBRARY IN OLD CAMPUS OF FAKIR MOHAN UNIVERSITY, BALASORE.

BID REF NO :- 46/PM/ELECT/OPHWC/2023-24

NAME & ADDRESS OF THE FIRM	
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SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
PART-A	ADMINSTRATIVE BLOCK				
1	40007924 Providing , fixing of terrace booster pump of 450 lpm volute bronze impeller connected to a TEFC induction motor suitable for 410/440 volts, 3 phase , 50 cycles AC supply as per the details given below.Make:Wilo / Kiloskar Or Lubi.	NO	1	61870	61870.00
2	40007936 Supply, Installation, Testing and Commissioning 100mm nominal dia flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. (Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth)	MTR	75	2403.5	180262.50
3	40007938 Supply, Installation, Testing and Commissioning 80mm nominal dia flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. (Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth)	MTR	6	1726.15	10356.90

4	40007944 Providing and fixing of Non return valve 100mm nominal dia cast iron dual plate check valves of PN1.6 including nuts, bolts, 1.5mm thick compressed asbestos gasket including matching flanges .SANT / ZOLOTO / KARTAR.	NO	2	6716	13432.00
5	40007952 Providing and fixing of 100mm nominal dia C.I. Butterfly valves conforming to PN 1.6/13095 with nuts, bolts, washers, 3mm thick ins ertion rubber gasket and two matching flanges .SANT / ZOLOTO / KARTAR	NO	5	5221	26105.00
6	40007964 Providing and fixing dial type pressure gauge with isolation cock and chrome plated copper pipe at hydrant station.Make - H-Guru.Dial diameter 100 mm calibration 0-15 kg/sp.cm	NO	1	1495	1495.00
7	40007968 Providing and fixing electrically operated dual type pressure switches with threaded connection for a pressure vessel, complete suitable for 0-15 Kg/Sq.cm model IPS-200 .Make - Dandfos.	NO	1	2576	2576.00
8	40007972 Providing and fixing of 25mm brass ball valve with lever and screwed female ends.(20 kg/cm2)at all level and position .Zoloto/Kartar.	NO	8	1298.65	10389.20
9	40007974 Supplying and fixing approved make 25 mm dia automatic air release valve suitable for 20kg/sqcm working pressure with necessary fittings complete in all respect at all level and position .Zoloto/Kartar.	NO	1	1437.5	1437.50
10	40007980 Providing & fixing Two way fire brigade inlet Gunmetal collecting head with 63 mm dia instantaneous type inlet and 150 mm dia flanged outlet fire brigade connection to fire risers (I.S. 904-1965) complete with companion flange as per table "E" nuts, bolts, gasket included cutting & welding at all level and position ..Fire shield / KARTAR	NO	1	6589.5	6589.50
11	40007986 Supply , Installation , testing and commissioning of control panel of 450lpm fire pump .Make - ASES/LUBI/GREEN POWER .	NO	1	20700	20700.00
12	40007996 Supply and laying of 3C X 10sqmm sqm copper cable Power cabling (XLPE) insulated and PVC sheathed, armoured, Aluminium Conductor of 1.1 KV grade on existing cable trays).	MTR	117	198.95	23277.15

13	<p>40008008 Providing and fixing SS landing valve conforming to IS -52290 with 63 mm dia. instantaneous female coupling on the outlet with PVC cap with chain, necessary companion flanges (as per table "E") nuts, bolts, washer and gasket complete as per specification. (ISI marked) .SAFE GUARD / KARTAR /</p>	NO	6	8346.7	50080.20
14	<p>40008010 Providing and fixing first aid fire hose reel drum wall mounting, swinging type fitted with 20mm dia. B129 30m long high pressure rubber hose type -II to IS. 5132 or nylon braided polypropelene hose of approve make with 5 mm outlet S.S. nozzle with shut off valve (IS. 884-1969).(Make-SAFE GUARD / KARTAR / SWASTIK)</p>	NO	6	9407	56442.00
15	<p>40008012 Providing and fixing SS couplng 63 mm dia. 15m long rubberized EPDM lined hose including SS male and female instantaneous type coupling approved by fire authority.(Make-SAFE GUARD / KARTAR / SWASTIK)</p>	NO	12	6325	75900.00
16	<p>40008014 Providing and fixing standard short size SS branch pipe with SS nozzle 16 mm dia. outlet with standard instantaneous type 63 mm dia. coupling. (ISI marked) .(Make-SAFE GUARD / KARTAR / SWASTIK)</p>	NO	6	2403.5	14421.00
17	<p>40008016 Providing and fixing 25mm dia full bore type brass ball valve (full bore type) model specified with plastic coated lever and screwed female ends tested to 20 Kg/ cm2 .Make - ZOLOTO/Sant.</p>	NO	2	1224.75	2449.50
18	<p>40008018 Providing and fixing M.S. structural work fabricated from standard sections e.g. M.S. Rounds, angles, channels, GI clamps including cutting to size drilling, welding including insert plates or "Hilti/ Wurth fastners of required specification in RCC structural/masonry.</p>	KG	15	116.15	1742.25
19	<p>40008020 Providing and fixing fire hose cabinet fabricated from 16 gauge M.S. sheet with locking arrangement and hanging arrangement for accessories painted "Fire Red" with enameled paint "Fire Hose" written on front including suitable supports to place 900 mm above ground level properly anchored, approximately size 750x600x250 mm deep (to house two lengths of canvas hose with couplings, branch pipe with nozzle for external hydrants)</p>	NO	6	4140	24840.00

20	40008024 Providing and fixing Carbon-di-oxide fire extinguishers. Capacity 4.5 kg. ISI Marked.(Make -Fire shield/Kanex/Safex)	NO	6	7210.5	43263.00
21	40008026 Providing and fixing stored pressure portable (powder type) ABC - 6.0 kg fire extinguishers including all accessories as per latest IS with wall bracket and rawl plug(Make -Fire shield/Kanex/Safex .)	NO	12	3795	45540.00
22	40008035 Sand Bucket as per IS specification .	NO	3	575	1725.00
23	40008037 Bucket stand to store 3nos of Bucket also having aluminium sheet above the atand to prevent the sand from rain/Sunset.	NO	1	3243	3243.00
24	40008041 Supply ,Installation,testing & Commissioning of 2LOOP FIRE ALARM PANEL 32bit microprocessor based intelligent addressable Fire Alarm control Panel LPCB Approved with battery backup.The panel would be modular,decentralized,with minimum 240 character LCD display & for networking.Each loop would be capable to have atleast 99 addressable detectors & devices with 30mins battery backup & battery charger Inbuilt. Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	1	119600	119600.00
25	40008047 Supply, Installation,testing & Commissioning of intelligent addressable multicriteria detector with base . Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	6	3496	20976.00
26	40008049 Supply ,Installation,testing & Commissioning of Manual Call Point. Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	6	5152	30912.00
27	40008051 Supply ,Installation,testing & Commissioning of flash cum sounder(Hooter).Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	6	6141	36846.00
28	40008071 Providing,fixing,testing and commissioning of 2cx1.5sqmm pvc cable with condute.	MTR	500	142.6	71300.00
29	40008073 Supply and fixing of wall mounting type Auto glow signages of different type like, fire exit with one side arrow /do not use lift in case of fire/Emergency Exit/Staircase Indicating Arrow etc . Sizes :- 300x150mm . type .	NO	18	793.5	14283.00

30	40008359 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 50 mm dia Pipe (CPVC)	MTR	30	900.48	27014.40
31	40008361 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 40 mm dia Pipe (CPVC)	MTR	20	588.36	11767.20
32	40008363 Cutting holes through existing brick work including making good the same in cement mortar (1:4) for taking GI/PVC pipes and fittings etc all complete as per specification. 250 mm thick wall(10")	NO	4	46.35	185.40
33	40008365 Cutting hole in R.C.C floors and roofs upto 19 cm thick for passing G.I / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof. Detail cost per l hole of size (15cmX15cmX25cm)	NO	4	154.63	618.52
34	40008367 Fixing of U.P.V.C Ball Valve of 50 mm diameter conforming to the following nominal sizes with wheel as per specification complete.(solvent welded with metal ball)as per the direction of EIC. 50 mm dia U.P.V.C Ball Valve	NO	2	2415.3	4830.60
35	40008369 Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS : 12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting upto a height of 5 metres above ground level and placing the tank to the required position etc all complete as per specification and direction of the E.I.C . Double Layer Cylindrical Vertical water storage tanks	LT	10000	10.71	107100.00

36	40008371 Extra over item No 25 for hoisting Rotational moulded polyethylene cylindrical vertical water storage tanks of the following size for every additional height of 5 metres or part there of (Excluding ground floor).for hoisting the water tank above 5 meter (for each addl. 1 Mtr)	MTR	73	34.2	2496.60
37	40008373 Construction of Valve Chamber for sluice Valve of size 1000 x 1000 x1200 mm with 230 mm thick brick wall and MS chequered plate.(Pump House for Terrece) (SUBJECT TO ACTUAL)	NO	1	20000	20000.00
(PART-A) TOTAL					1146066.42
PART-B	CENTRAL LIBRARY IN NEW CAMPUS				
38	40007924 Providing , fixing of terrace booster pump of 450 lpm volute bronze impeller connected to a TEFC induction motor suitable for 410/440 volts, 3 phase , 50 cycles AC supply as per the details given below.Make:Wilo / Kiloskar Or Lubi.	NO	1	61870	61870.00
39	40007936 Supply, Installation, Testing and Commissioning 100mm nominal dia flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. (Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth)	MTR	60	2403.5	144210.00
40	40007938 Supply, Installation, Testing and Commissioning 80mm nominal dia flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. (Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth)	MTR	2	1726.15	3452.30
41	40007944 Providing and fixing of Non return valve 100mm nominal dia cast iron dual plate check valves of PN1.6 including nuts, bolts, 1.5mm thick compressed asbestos gasket including matching flanges .SANT / ZOLOTO / KARTAR.	NO	2	6716	13432.00

42	40007952 Providing and fixing of 100mm nominal dia C.I. Butterfly valves conforming to PN 1.6/13095 with nuts, bolts, washers, 3mm thick ins ertion rubber gasket and two matching flanges .SANT / ZOLOTO / KARTAR	NO	5	5221	26105.00
43	40007964 Providing and fixing dial type pressure gauge with isolation cock and chrome plated copper pipe at hydrant station.Make - H-Guru.Dial diameter 100 mm calibration 0-15 kg/sp.cm	NO	1	1495	1495.00
44	40007968 Providing and fixing electrically operated dual type pressure switches with threaded connection for a pressure vessel, complete suitable for 0-15 Kg/Sq.cm model IPS-200 .Make - Dandfos.	NO	1	2576	2576.00
45	40007972 Providing and fixing of 25mm brass ball valve with lever and screwed female ends.(20 kg/cm2)at all level and position .Zoloto/Kartar.	NO	8	1298.65	10389.20
46	40007974 Supplying and fixing approved make 25 mm dia automatic air release valve suitable for 20kg/sqcm working pressure with necessary fittings complete in all respect at all level and position .Zoloto/Kartar.	NO	1	1437.5	1437.50
47	40007980 Providing & fixing Two way fire brigade inlet Gunmetal collecting head with 63 mm dia instantaneous type inlet and 150 mm dia flanged outlet fire brigade connection to fire risers (I.S. 904-1965) complete with companion flange as per table "E" nuts, bolts, gasket included cutting & welding at all level and position ..Fire shield / KARTAR	NO	1	6589.5	6589.50
48	40007986 Supply , Installation , testing and commissioning of control panel of 450lpm fire pump .Make - ASES/LUBI/GREEN POWER .	NO	1	20700	20700.00
49	40007996 Supply and laying of 3C X 10sqmm sqm copper cable Power cabling (XLPE) insulated and PVC sheathed, armoured, Aluminium Conductor of 1.1 KV grade on existing cable trays).	MTR	60	198.95	11937.00
50	40008008 Providing and fixing SS landing valve conforming to IS -52290 with 63 mm dia. instantaneous female coupling on the outlet with PVC cap with chain, necessary companion flanges (as per table "E") nuts, bolts, washer and gasket complete as per specification. (ISI marked) .SAFE GUARD / KARTAR /	NO	4	8346.7	33386.80

51	40008010 Providing and fixing first aid fire hose reel drum wall mounting, swinging type fitted with 20mm dia. B129 30m long high pressure rubber hose type -II to IS. 5132 or nylon braided polypropelene hose of approve make with 5 mm outlet S.S. nozzle with shut off valve (IS. 884-1969).(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	4	9407	37628.00
52	40008012 Providing and fixing SS coupling 63 mm dia. 15m long rubberized EPDM lined hose including SS male and female instantaneous type coupling approved by fire authority.(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	8	6325	50600.00
53	40008014 Providing and fixing standard short size SS branch pipe with SS nozzle 16 mm dia. outlet with standard instantaneous type 63 mm dia. coupling. (ISI marked) .(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	4	2403.5	9614.00
54	40008016 Providing and fixing 25mm dia full bore type brass ball valve (full bore type) model specified with plastic coated lever and screwed female ends tested to 20 Kg/ cm2 .Make - ZOLOTO/Sant.	NO	2	1224.75	2449.50
55	40008018 Providing and fixing M.S. structural work fabricated from standard sections e.g. M.S. Rounds, angles, channels, GI clamps including cutting to size drilling, welding including insert plates or "Hilti/ Wurth fastners of required specification in RCC structural/masonry.	KG	15	116.15	1742.25
56	40008020 Providing and fixing fire hose cabinet fabricated from 16 gauge M.S. sheet with locking arrangement and hanging arrangement for accessories painted "Fire Red" with enameled paint "Fire Hose" written on front including suitable supports to place 900 mm above ground level properly anchored, approximately size 750x600x250 mm deep (to house two lengths of canvas hose with couplings, branch pipe with nozzle for external hydrants)	NO	4	4140	16560.00
57	40008024 Providing and fixing Carbon-di-oxide fire extinguishers. Capacity 4.5 kg. ISI Marked.(Make -Fire shield/Kanex/Safex)	NO	4	7210.5	28842.00
58	40008026 Providing and fixing stored pressure portable (powder type) ABC - 6.0 kg fire extinguishers including all accessories as per latest IS with wall bracket and rawl plug(Make -Fire shield/Kanex/Safex .)	NO	10	3795	37950.00

59	40008035 Sand Bucket as per IS specification .	NO	3	575	1725.00
60	40008037 Bucket stand to store 3nos of Bucket also having aluminium sheet above the atand to prevent the sand from rain/Sunset.	NO	1	3243	3243.00
61	40008041 Supply ,Installation,testing & Commissioning of 2LOOP FIRE ALARM PANEL 32bit microprocessor based intelligent addressable Fire Alarm control Panel LPCB Approved with battery backup.The panel would be modular,decentralized,with minimum 240 character LCD display & for networking.Each loop would be capable to have atleast 99 addressable detectors & devices with 30mins battery backup & battery charger Inbuilt. Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	1	119600	119600.00
62	40008047 Supply, Installation,testing & Commissioning of intelligent addressable multicriteria detector with base . Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST . Ground Floor	NO	4	3496	13984.00
63	40008049 Supply ,Installation,testing & Commissioning of Manual Call Point. Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	4	5152	20608.00
64	40008051 Supply ,Installation,testing & Commissioning of flash cum sounder(Hooter).Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	4	6141	24564.00
65	40008071 Providing,fixing,testing and commissioning of 2cx1.5sqmm pvc cable with condute.	MTR	250	142.6	35650.00
66	40008073 Supply and fixing of wall mounting type Auto glow signages of different type like, fire exit with one side arrow /do not use lift in case of fire/Emergency Exit/Staircase Indicating Arrow etc . Sizes :- 300x150mm . type .	NO	10	793.5	7935.00
67	40008359 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778,having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 50 mm dia Pipe (CPVC)	MTR	30	900.48	27014.40

68	40008361 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 40 mm dia Pipe (CPVC)	MTR	20	588.36	11767.20
69	40008363 Cutting holes through existing brick work including making good the same in cement mortar (1:4) for taking GI/PVC pipes and fittings etc all complete as per specification. 250 mm thick wall(10")	NO	4	46.35	185.40
70	40008365 Cutting hole in R.C.C floors and roofs upto 19 cm thick for passing G.I / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof. Detail cost per hole of size (15cmX15cmX25cm)	NO	4	154.63	618.52
71	40008367 Fixing of U.P.V.C Ball Valve of 50 mm diameter conforming to the following nominal sizes with wheel as per specification complete.(solvent welded with metal ball)as per the direction of EIC. 50 mm dia U.P.V.C Ball Valve	NO	2	2415.3	4830.60
72	40008369 Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS : 12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting upto a height of 5 metres above ground level and placing the tank to the required position etc all complete as per specification and direction of the E.I.C . Double Layer Cylindrical Vertical water storage tanks	LT	10000	10.71	107100.00
73	40008371 Extra over item No 25 for hoisting Rotational moulded polyethylene cylindrical vertical water storage tanks of the following size for every additional height of 5 metres or part there of (Excluding ground floor).for hoisting the water tank above 5 meter (for each addl. 1 Mtr)	MTR	73	34.2	2496.60
74	40008373 Construction of Valve Chamber for sluice Valve of size 1000 x 1000 x1200 mm with 230 mm thick brick wall and MS chequered plate.(Pump House for Terrece) (SUBJECT TO ACTUAL)	NO	1	20000	20000.00
TOTAL RS(PART-B)					924287.77

PART-C	LIBRARY IN OLD CAMPUS				
75	40007924 Providing , fixing of terrace booster pump of 450 lpm volute bronze impeller connected to a TEFC induction motor suitable for 410/440 volts, 3 phase , 50 cycles AC supply as per the details given below.Make:Wilo / Kiloskar Or Lubi.	NO	1	61870	61870.00
76	40007936 Supply, Installation, Testing and Commissioning 100mm nominal dia flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. (Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth)	MTR	40	2403.5	96140.00
77	40007938 Supply, Installation, Testing and Commissioning 80mm nominal dia flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. (Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth)	MTR	2	1726.15	3452.30
78	40007944 Providing and fixing of Non return valve 100mm nominal dia cast iron dual plate check valves of PN1.6 including nuts, bolts, 1.5mm thick compressed asbestos gasket including matching flanges .SANT / ZOLOTO / KARTAR.	NO	2	6716	13432.00
79	40007952 Providing and fixing of 100mm nominal dia C.I. Butterfly valves conforming to PN 1.6/13095 with nuts, bolts, washers, 3mm thick ins ertion rubber gasket and two matching flanges .SANT / ZOLOTO / KARTAR	NO	4	5221	20884.00
80	40007964 Providing and fixing dial type pressure gauge with isolation cock and chrome plated copper pipe at hydrant station.Make - H-Guru.Dial diameter 100 mm calibration 0-15 kg/sp.cm	NO	1	1495	1495.00

81	40007968 Providing and fixing electrically operated dual type pressure switches with threaded connection for a pressure vessel, complete suitable for 0-15 Kg/Sq.cm model IPS-200 .Make - Dandfos.	NO	1	2576	2576.00
82	40007972 Providing and fixing of 25mm brass ball valve with lever and screwed female ends.(20 kg/cm2)at all level and position .Zoloto/Kartar.	NO	4	1298.65	5194.60
83	40007974 Supplying and fixing approved make 25 mm dia automatic air release valve suitable for 20kg/sqcm working pressure with necessary fittings complete in all respect at all level and position .Zoloto/Kartar.	NO	1	1437.5	1437.50
84	40007980 Providing & fixing Two way fire brigade inlet Gunmetal collecting head with 63 mm dia instantaneous type inlet and 150 mm dia flanged outlet fire brigade connection to fire risers (I.S. 904-1965) complete with companion flange as per table "E" nuts, bolts, gasket included cutting & welding at all level and position ..Fire shield / KARTAR Ground Floor	NO	1	6589.5	6589.50
85	40007986 Supply , Installation , testing and commissioning of control panel of 450lpm fire pump .Make - ASES/LUBI/GREEN POWER .	NO	1	20700	20700.00
86	40007996 Supply and laying of 3C X 10sqmm sqm copper cable Power cabling (XLPE) insulated and PVC sheathed, armoured, Aluminium Conductor of 1.1 KV grade on existing cable trays).	MTR	50	198.95	9947.50
87	40008008 Providing and fixing SS landing valve conforming to IS -52290 with 63 mm dia. instantaneous female coupling on the outlet with PVC cap with chain, necessary companion flanges (as per table "E") nuts, bolts, washer and gasket complete as per specification. (ISI marked) .SAFE GUARD / KARTAR /	NO	4	8346.7	33386.80
88	40008010 Providing and fixing first aid fire hose reel drum wall mounting, swinging type fitted with 20mm dia. B129 30m long high pressure rubber hose type -II to IS. 5132 or nylon braided polypropelene hose of approve make with 5 mm outlet S.S. nozzle with shut off valve (IS. 884-1969).(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	2	9407	18814.00

89	40008012 Providing and fixing SS coupling 63 mm dia. 15m long rubberized EPDM lined hose including SS male and female instantaneous type coupling approved by fire authority.(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	4	6325	25300.00
90	40008014 Providing and fixing standard short size SS branch pipe with SS nozzle 16 mm dia. outlet with standard instantaneous type 63 mm dia. coupling. (ISI marked) .(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	4	2403.5	9614.00
91	40008016 Providing and fixing 25mm dia full bore type brass ball valve (full bore type) model specified with plastic coated lever and screwed female ends tested to 20 Kg/ cm2 .Make - ZOLOTO/Sant. Ground Floor	NO	2	1224.75	2449.50
92	40008018 Providing and fixing M.S. structural work fabricated from standard sections e.g. M.S. Rounds, angles, channels, GI clamps including cutting to size drilling, welding including insert plates or "Hilti/ Wurth fastners of required specification in RCC structural/masonry.	KG	15	116.15	1742.25
93	40008020 Providing and fixing fire hose cabinet fabricated from 16 gauge M.S. sheet with locking arrangement and hanging arrangement for accessories painted "Fire Red" with enameled paint "Fire Hose" written on front including suitable supports to place 900 mm above ground level properly anchored, approximately size 750x600x250 mm deep (to house two lengths of canvas hose with couplings, branch pipe with nozzle for external hydrants)	NO	2	4140	8280.00
94	40008024 Providing and fixing Carbon-di-oxide fire extinguishers. Capacity 4.5 kg. ISI Marked.(Make -Fire shield/Kanex/Safex)	NO	2	7210.5	14421.00
95	40008026 Providing and fixing stored pressure portable (powder type) ABC - 6.0 kg fire extinguishers including all accessories as per latest IS with wall bracket and rawl plug(Make -Fire shield/Kanex/Safex .)	NO	8	3795	30360.00
96	40008035 Sand Bucket as per IS specification .	NO	3	575	1725.00
97	40008037 Bucket stand to store 3nos of Bucket also having aluminium sheet above the atand to prevent the sand from rain/Sunset.	NO	1	3243	3243.00

98	40008041 Supply ,Installation,testing & Commissioning of 2LOOP FIRE ALARM PANEL 32bit microprocessor based intelligent addressable Fire Alarm control Panel LPCB Approved with battery backup.The panel would be modular,decentralized,with minimum 240 character LCD display & for networking.Each loop would be capable to have atleast 99 addressable detectors & devices with 30mins battery backup & battery charger Inbuilt. Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	1	119600	119600.00
99	40008047 Supply, Installation,testing & Commissioning of intelligent addressable multicriteria detector with base . Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	2	3496	6992.00
100	40008049 Supply ,Installation,testing & Commissioning of Manual Call Point. Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	2	5152	10304.00
101	40008051 Supply ,Installation,testing & Commissioning of flash cum sounder(Hooter).Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	2	6141	12282.00
102	40008071 Providing,fixing,testing and commissioning of 2cx1.5sqmm pvc cable with condute.	MTR	150	142.6	21390.00
103	40008073 Supply and fixing of wall mounting type Auto glow signages of different type like, fire exit with one side arrow /do not use lift in case of fire/Emergency Exit/Staircase Indicating Arrow etc . Sizes :- 300x150mm . type .	NO	12	793.5	9522.00
104	40008359 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778,having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 50 mm dia Pipe (CPVC)	MTR	30	900.48	27014.40

105	40008361 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 40 mm dia Pipe (CPVC)	MTR	20	588.36	11767.20
106	40008363 Cutting holes through existing brick work including making good the same in cement mortar (1:4) for taking GI/PVC pipes and fittings etc all complete as per specification. 250 mm thick wall(10")	NO	4	46.35	185.40
107	40008365 Cutting hole in R.C.C floors and roofs upto 19 cm thick for passing G.I / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof. Detail cost per hole of size (15cmX15cmX25cm)	NO	4	154.63	618.52
108	40008367 Fixing of U.P.V.C Ball Valve of 50 mm diameter conforming to the following nominal sizes with wheel as per specification complete.(solvent welded with metal ball)as per the direction of EIC. 50 mm dia U.P.V.C Ball Valve	NO	2	2415.3	4830.60
109	40008369 Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS : 12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting upto a height of 5 metres above ground level and placing the tank to the required position etc all complete as per specification and direction of the E.I.C . Double Layer Cylindrical Vertical water storage tanks	LT	10000	10.71	107100.00
110	40008371 Extra over item No 25 for hoisting Rotational moulded polyethylene cylindrical vertical water storage tanks of the following size for every additional height of 5 metres or part there of (Excluding ground floor).for hoisting the water tank above 5 meter (for each addl. 1 Mtr)	MTR	73	34.2	2496.60
111	40008373 Construction of Valve Chamber for sluice Valve of size 1000 x 1000 x1200 mm with 230 mm thick brick wall and MS chequered plate.(Pump House for Terrece) (SUBJECT TO ACTUAL)	NO	1	20000	20000.00
(PART-C) TOTAL RS.					747156.67

PART-D	P.G COUNCIL BLOCK				
112	40007924 Providing , fixing of terrace booster pump of 450 lpm volute bronze impeller connected to a TEFC induction motor suitable for 410/440 volts, 3 phase , 50 cycles AC supply as per the details given below.Make:Wilo / Kiloskar Or Lubi.	NO	1	61870	61870.00
113	40007936 Supply, Installation, Testing and Commissioning 100mm nominal dia flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. (Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth)	MTR	40	2403.5	96140.00
114	40007938 Supply, Installation, Testing and Commissioning 80mm nominal dia flange jointed / screwed / welded, M.S. Pipes of Class c (Heavy class) ISI marked including accessories such as MS bracket, U clamps with Anchor fasteners, tees / elbows / reducers / couplings / unions / bends / flanges etc., and laying on the surface including painting with two coats of anticorrosive primer and two coats of approved red enamel paint after laying and testing after Installation etc. as per specifications complete as required. (Pipes - Tata/Jindal ,Anchor fastener- Hilti/ Wurth)	MTR	2	1726.15	3452.30
115	40007944 Providing and fixing of Non return valve 100mm nominal dia cast iron dual plate check valves of PN1.6 including nuts, bolts, 1.5mm thick compressed asbestos gasket including matching flanges .SANT / ZOLOTO / KARTAR.	NO	2	6716	13432.00
116	40007952 Providing and fixing of 100mm nominal dia C.I. Butterfly valves conforming to PN 1.6/13095 with nuts, bolts, washers, 3mm thick ins ertion rubber gasket and two matching flanges .SANT / ZOLOTO / KARTAR	NO	4	5221	20884.00
117	40007964 Providing and fixing dial type pressure gauge with isolation cock and chrome plated copper pipe at hydrant station.Make - H-Guru.Dial diameter 100 mm calibration 0-15 kg/sp.cm	NO	1	1495	1495.00

118	40007968 Providing and fixing electrically operated dual type pressure switches with threaded connection for a pressure vessel, complete suitable for 0-15 Kg/Sq.cm model IPS-200 .Make - Dandfos. Ground Floor	NO	1	2576	2576.00
119	40007972 Providing and fixing of 25mm brass ball valve with lever and screwed female ends.(20 kg/cm2)at all level and position .Zoloto/Kartar.	NO	4	1298.65	5194.60
120	40007974 Supplying and fixing approved make 25 mm dia automatic air release valve suitable for 20kg/sqcm working pressure with necessary fittings complete in all respect at all level and position .Zoloto/Kartar.	NO	1	1437.5	1437.50
121	40007980 Providing & fixing Two way fire brigade inlet Gunmetal collecting head with 63 mm dia instantaneous type inlet and 150 mm dia flanged outlet fire brigade connection to fire risers (I.S. 904-1965) complete with companion flange as per table "E" nuts, bolts, gasket included cutting & welding at all level and position ..Fire shield / KARTAR Ground Floor	NO	4	6589.5	26358.00
122	40007986 Supply , Installation , testing and commissioning of control panel of 450lpm fire pump .Make - ASES/LUBI/GREEN POWER .	NO	1	20700	20700.00
123	40007996 Supply and laying of 3C X 10sqmm sqm copper cable Power cabling (XLPE) insulated and PVC sheathed, armoured, Aluminium Conductor of 1.1 KV grade on existing cable trays).	MTR	60	198.95	11937.00
124	40008008 Providing and fixing SS landing valve conforming to IS -52290 with 63 mm dia. instantaneous female coupling on the outlet with PVC cap with chain, necessary companion flanges (as per table "E") nuts, bolts, washer and gasket complete as per specification. (ISI marked) .SAFE GUARD / KARTAR /	NO	2	8346.7	16693.40
125	40008010 Providing and fixing first aid fire hose reel drum wall mounting, swinging type fitted with 20mm dia. B129 30m long high pressure rubber hose type -II to IS. 5132 or nylon braided polypropelene hose of approve make with 5 mm outlet S.S. nozzle with shut off valve (IS. 884-1969).(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	2	9407	18814.00

126	40008012 Providing and fixing SS coupling 63 mm dia. 15m long rubberized EPDM lined hose including SS male and female instantaneous type coupling approved by fire authority.(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	4	6325	25300.00
127	40008014 Providing and fixing standard short size SS branch pipe with SS nozzle 16 mm dia. outlet with standard instantaneous type 63 mm dia. coupling. (ISI marked) .(Make-SAFE GUARD / KARTAR / SWASTIK)	NO	6	2403.5	14421.00
128	40008016 Providing and fixing 25mm dia full bore type brass ball valve (full bore type) model specified with plastic coated lever and screwed female ends tested to 20 Kg/ cm2 .Make - ZOLOTO/Sant.	NO	2	1224.75	2449.50
129	40008018 Providing and fixing M.S. structural work fabricated from standard sections e.g. M.S. Rounds, angles, channels, GI clamps including cutting to size drilling, welding including insert plates or "Hilti/ Wurth fastners of required specification in RCC structural/masonry.	KG	15	116.15	1742.25
130	40008020 Providing and fixing fire hose cabinet fabricated from 16 gauge M.S. sheet with locking arrangement and hanging arrangement for accessories painted "Fire Red" with enameled paint "Fire Hose" written on front including suitable supports to place 900 mm above ground level properly anchored, approximately size 750x600x250 mm deep (to house two lengths of canvas hose with couplings, branch pipe with nozzle for external hydrants)	NO	2	4140	8280.00
131	40008024 Providing and fixing Carbon-di-oxide fire extinguishers. Capacity 4.5 kg. ISI Marked.(Make -Fire shield/Kanex/Safex)	NO	4	7210.5	28842.00
132	40008026 Providing and fixing stored pressure portable (powder type) ABC - 6.0 kg fire extinguishers including all accessories as per latest IS with wall bracket and rawl plug(Make -Fire shield/Kanex/Safex .)	NO	8	3795	30360.00
133	40008035 Sand Bucket as per IS specification .	NO	3	575	1725.00
134	40008037 Bucket stand to store 3nos of Bucket also having aluminium sheet above the atand to prevent the sand from rain/Sunset.	NO	1	3243	3243.00

135	40008041 Supply ,Installation,testing & Commissioning of 2LOOP FIRE ALARM PANEL 32bit microprocessor based intelligent addressable Fire Alarm control Panel LPCB Approved with battery backup.The panel would be modular,decentralized,with minimum 240 character LCD display & for networking.Each loop would be capable to have atleast 99 addressable detectors & devices with 30mins battery backup & battery charger Inbuilt. Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	1	119600	119600.00
136	40008047 Supply, Installation,testing & Commissioning of intelligent addressable multicriteria detector with base . Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	3	3496	10488.00
137	40008049 Supply ,Installation,testing & Commissioning of Manual Call Point. Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	3	5152	15456.00
138	40008051 Supply ,Installation,testing & Commissioning of flash cum sounder(Hooter).Make-Honeywell MORLEY IAS/ Apollo /system sensor Or GST .	NO	3	6141	18423.00
139	40008071 Providing,fixing,testing and commissioning of 2cx1.5sqmm pvc cable with condute.	MTR	200	142.6	28520.00
140	40008073 Supply and fixing of wall mounting type Auto glow signages of different type like, fire exit with one side arrow /do not use lift in case of fire/Emergency Exit/Staircase Indicating Arrow etc . Sizes :- 300x150mm . type .	NO	12	793.5	9522.00
141	40008359 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778,having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 50 mm dia Pipe (CPVC)	MTR	30	900.48	27014.40

142	40008361 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. 40 mm dia Pipe (CPVC)	MTR	20	588.36	11767.20
143	40008363 Cutting holes through existing brick work including making good the same in cement mortar (1:4) for taking GI/PVC pipes and fittings etc all complete as per specification. 250 mm thick wall(10")	NO	4	46.35	185.40
144	40008365 Cutting hole in R.C.C floors and roofs upto 19 cm thick for passing G.I / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof. Detail cost per hole of size (15cmX15cmX25cm)	NO	4	154.63	618.52
145	40008367 Fixing of U.P.V.C Ball Valve of 50 mm diameter conforming to the following nominal sizes with wheel as per specification complete.(solvent welded with metal ball)as per the direction of EIC. 50 mm dia U.P.V.C Ball Valve	NO	2	2415.3	4830.60
146	40008369 Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS : 12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting upto a height of 5 metres above ground level and placing the tank to the required position etc all complete as per specification and direction of the E.I.C . Double Layer Cylindrical Vertical water storage tanks	LT	10000	10.71	107100.00
147	40008371 Extra over item No 25 for hoisting Rotational moulded polyethylene cylindrical vertical water storage tanks of the following size for every additional height of 5 metres or part there of (Excluding ground floor).for hoisting the water tank above 5 meter (for each addl. 1 Mtr)	MTR	73	34.2	2496.60
148	40008373 Construction of Valve Chamber for sluice Valve of size 1000 x 1000 x1200 mm with 230 mm thick brick wall and MS chequered plate.(Pump House for Terrece) (SUBJECT TO ACTUAL)	NO	1	20000	20000.00
(PART-D) TOTAL					793368.27

	Total Rs.(PART-A+PART-B+PART-C+PART-D)				3610879.13
		Cess @ 1%			36108.79
		Total Estimated Cost			3,646,987.92
		Total Estimated Cost in Figures			3,646,988.00
EXCESS	<input type="checkbox"/>	LESS	<input type="checkbox"/>	(Please Tick)	_____%
Quoted Amount in Figure					
Quoted Amount in words					

N:B- The Estimated cost is exclusive of GST .

Signature of Tenderer with seal

Sd/-
Asst. Project Manager[Elect.]

Sd/-
APM (Elect.) Hqr.

Sd/-
Project Manager(Elect.)