

INTRODUCTION

SLDC Complex of BBMB is situated in Industrial Area, Phase-1, Chandigarh on Madhya Marg in the premises of 66 kV substation, BBMB, Chandigarh. Map indicating location of the complex is placed below as an Annexure-I. Besides BBMB SLDC complex, offices of HVPNL & U.T. Electricity Department and residential houses for the employees are also situated in the premises. A plan of the complex is placed below as Annexure-II. The SLDC complex comprises of the following two blocks: -

1. Administrative Block

The offices of Chief Engineer/System Operation, BBMB and Chief Engineer/Transmission, BBMB are functioning in this block.

2. Computer Block

The Computer Block houses SLDC Control Room and the office of Director/Power Regulation.

BBMB State Load Despatch Centre is a part of Unified Load Despatch Scheme of Northern Regional Grid. The functions of BBMB SLDC is scheduling and despatch of power from the BBMB powerhouses in close coordination with NRLDC and partner states of BBMB viz. Punjab, Haryana, Rajasthan & Himachal Pradesh. For this purpose, data is exchanged through various communication links viz. wide band/ P&T/ PLCC with NRLDC, Powerhouses & Substations of BBMB, Irrigation authorities of BBMB, partner states etc. The wide band communication is through microwave/ optical fiber links. The functions of the BBMB State Load Despatch Centre are performed from the control room of SLDC, which is located on the first floor of Computer Block. The Control Room is manned around the clock in three shifts by a Senior Xen/Shifts assisted by one AEE/AE and other about 6 personnel as indicated in Annexure-III. The names of the officers/ officials on shift duty in the control room are also indicated in the Annexure-III. During office timings from 9.00 AM to 5.00 PM, other staff is also on general duty.

BBMB State Load Despatch Centre is fully computerized and houses sophisticated equipment viz. computers, servers, modems, RTUs etc. There are also separate Communication, Battery and UPS rooms in the Computer Block.

Trained security personnel (Ex-servicemen) from PESCO have been engaged for the security of the SLDC building. All the entry points to the SLDC complex are closed except the main entrance from the administrative block. The security personnel perform the duty round the clock in three shifts. Entry to the SLDC building is allowed after due verification by the security personnel at the main entrance of the administrative block. A metal detector has been also installed at the entrance.

This Contingency/ Civil Defence Plan envisages ways and means to protect the SLDC complex from manmade/ natural calamities so that the functioning of the SLDC continues undisturbed.

AIMS AND OBJECTIVES

The aims and objectives of this Contingency/ Civil Defence Plan are:

1. To protect man, machinery and plants of the SLDC from natural calamities like lightning, earthquakes, cyclones, flood etc and from manmade calamities such as fire, war, terrorist acts etc.
2. To handle any disaster caused by any natural or manmade calamity effectively and efficiently so as to contain the damage and maintain uninterrupted functioning of the SLDC and in the event of any interruption in the functioning thereof, to restore the same expeditiously.

CONTINGENCY/ CIVIL DEFENCE PLAN

The features of this plan are as under: -

A. RESTRICTED ENTRY TO SLDC COMPLEX

1. The SLDC complex has been declared prohibited area under Indian Official Secret Act 1923 notified vide No.11281-H-111(5)-99/23632 dated 7.12.99. All the entry points to the SLDC Complex are closed except the main entrance from the administrative block.
2. Trained security personnel (Ex-servicemen) from PESCO have been engaged for the security of the SLDC Complex. The security personnel are on duty round the clock in three shifts. Entry to the SLDC Complex is allowed after due verification by the security personnel at the main entrance of the administrative block.
3. A metal detector has been also installed at the entrance to check the entry of firearms or any other weapon into the complex.
4. At the time of war/terrorist activities/agitation/riots, entry to the visitors would be further restricted and allowed only after verification of credentials by the Director/Power Regulation or any other officer authorized by him.
5. At the time of war/terrorist activities, the security of the complex would be beefed up. Atleast, two additional security personnel (armed guards) in each shift would be arranged.
6. An Electronic Security lock has been installed at the main entrance of Control room/Computer room functioning at first floor of SLDC complex. All the persons, who need access to the Control/Computer room, have been provided with electronic key of the lock, which is in the shape of a numbered-card. An unauthorized person cannot enter the room.

B. FIRE FIGHTING

1. The Sr.Xen/Shifts on duty would be the nodal officer for fire fighting. The security personnel on duty and other staff on shift duty would follow his instructions in combating fire.
2. Fire sensing and alarm system has been provided in the SLDC complex. The main control panels of this system have been installed at the main entrance of the administrative block and in the control room, both of which are manned round the clock. In case of break out of fire in any part of the SLDC complex, the security personnel at the entrance would get the alarm of the same from the main control panel at the entrance and would immediately inform the Sr Xen/Shifts on duty about the same.
3. In case, fire breaks out in the computer/ control room, on the first floor, the Sr Xen/Shifts and the staff on shift duty would get alarm through the control panel installed in the control room and the security personnel through the main control panel at the main entrance.
4. On the break out of any fire in any part of the building, the nodal officer will swing into action and immediately seek help of the Fire Control Room Fire Station, Industrial Area, Phase-1 (and simultaneously start fire fighting operation with the CO2 / Water type fire extinguishers as the case may be.
5. The telephone numbers of the fire control room (Phone No. 101) and Fire Station, Industrial Area, Phase-1 (Phone No.655816) have been displayed at various suitable locations in the SLDC Complex.
6. The fire extinguishers as detailed hereunder stand installed in the complex: -

LOCATION	CO2 TYPE FIRE EXTINGUISHER		WATER TYPE FIRE EXTINGUISHER	TOTAL
	4.5Kg each	2 Kg each		
Control Room	3	3		6
Computer room	2	2		4
1 st floor Gallery/ Corridor	2	-	3	5
JPS Room	1	-	-	1
Ground floor Gallery	-	-	3	3
L.T. Room	-	3	-	3
Carrier room	-	2	-	2
D.G. Set	-	1	-	1
Total	8	11	6	25

A pump house (3 Nos. Pumps with 12.5 HP, 20 HP & 60 HP Motors) has been installed in the complex as a part of water based fire fighting equipment. The pump house is connected to an underground water tank of 1.0 Lac Ltrs. and can be extended to any part of the building for fire fighting. For pumping the water when there is no power supply, a DG Set of 66 KVA has also been provided in the pump house room exclusively for Fire Fighting system.

In addition to the above underground tank, 4 Nos. 5000 Ltrs. Capacity water tanks have also been provided at the roof of Admn. Block for fire fighting purpose exclusively. These tanks are filled with water through mono block pump and always kept filled with water to meet with any exigency of fire. Even when the generator can not be operated due to failure of power supply or any other reasons, the water from the tanks would flow under gravity and can be used.

7. A mock exercise for fire fighting is being arranged every month to train the identified personnel for fire fighting and instill a sense of confidence in them.
8. Ladders/ ropes have been arranged for emergency exit.
9. In case of fire the electric supply to the effected area shall be switched off from L.T. Control Room / 66KV Grid Sub-Station, BBMB, Chandigarh.

C. UNEXPLODED BOMB (UXB)

1. The names & Telephone numbers of the offices of BOMB squad, sniff dog squad, police authorities, fire stations, ambulance, have been displayed at important locations of the SLDC Complex.
2. The Sr.Xen/Shifts on duty would be the nodal officer for this purpose. In the event of any danger due to UXB, the nodal officer would immediately seek the help of the Bomb squad.
3. The affected area shall be immediately evacuated and sealed.
4. Trained personnel would place sandbags around the UXB before the UXB squad reaches.

D. WAR TIME SITUATION

1. During war time situation, all the internal lights of the SLDC Complex would be covered with brown/black paper in such a way that light doesn't come out. All the windowpanes, doors/ventilators would be suitably blackened/covered with black paper.
2. Whenever there would be any air raid warning, the staff would evacuate the building and take positions in the trenches especially in the wartime situation.
3. Sandbags in height would be placed at sensitive locations in the complex to avoid entry of any stray splinter of bombs.
4. Local administration/police authorities shall be immediately approached for reinforcement and deployment of extra police/home guards/military officials in the complex.

ALTERNATIVE CONTROL ROOM

1. SLDC Complex is connected to various Partner States viz. Punjab, Haryana, Rajasthan, HPSEB/NRLDC New Delhi/generating stations/substations through the various communications system viz. wide band, P&T, PLCC, EPBAX.
2. In case the Control Room of the SLDC is made non operational due to any disaster but the communication room and other parts of the SLDC are not affected, the basic functions of SLDC shall be carried out as a stopgap arrangement from the office of Sr.Xen/PC Division located on the first floor opposite to the communication room. In case the communication room and the room of Sr.Xen/PC Division are also affected by the disaster, the functions of SLDC would be performed from Control Room /Carrier room of 66KV Sub-Station BBMB Chandigarh. In that case the wide band communication would be also affected and the communication with NRLDC, Irrigation authorities, Powerhouses/ Substations, partner States would be carried out through P&T & PLCC. V-SAT System installed in the HVPN office adjacent to the Control /Carrier Room at 66kV Substation, BBMB, would be also used as a Hot Line Link with NRLDC.

E. FAILURE OF POWER SUPPLY

1. In case of failure of supply the computer system shall automatically switch over to UPS system which is backed up by 220-Volt DC Battery and has a capacity of about 10 hours back up on full load.
2. In case of failure of supply, the Sr.Xen/Shifts would immediately inform the Sr.Xen/ PC Division who would be the nodal officer for the restoration of normal supply. The nodal officer with the help of his maintenance staff would ensure restoration of normal power supply at the earliest. Dy.Director/LD-II would be also associated.
3. A 75 KVA Diesel Generator set has been installed exclusively for the battery room and emergency load of the Computer/ Control room. The nodal officer would put the D.G.Set in operation, whenever need be.

F. MEDICAL AID/ RESCUE OPERATION

1. One jeep (No. PB-12-C-4180) is always kept available in the complex for dealing with any emergent situation arising out of any mishap, accident, serious illness etc. The affected personnel shall be immediately rushed to GMCH, Sec-32/GH, Sec-16/PGI for medical aid.
2. The ambulance services will be called for, if the situation demands. The telephone numbers of the ambulance services has also been displayed at all important locations.
3. First aid box has been provided in the Control Room and first aid training is being imparted to the officials.

TRAINING

Training is being imparted to the personnel for fire fighting, first aid etc. Mock exercise for fire fighting is carried out every month.

Approved

YH
Addl. Deputy Comm.
Deputy Commissioner-Cum-
Controller Civil Defence,
U.T. Chandigarh." YH

Be
Addl Superintending Engineer,
PC Division, SLDC, BBMB,
Chandigarh.

LIST OF IMPORTANT TELEPHONE NUMBERS

1. POLICE CONTROL NUMBERS	100, 2749194, 2744100
2. FIRE CONTROL ROOM	101
3. POLICE STATION, IND. AREA, PH-I, CHD	2657344, 2679013
4. Sr. SUPDT. OF POLICE	2760001, 2760807
5. DY. SUPDT. OF POLICE/CRIME	2740244, 2760000
6. DSP/SECURITY	2650100, 2658504
7. SECURITY CONTROL ROOM(P.P) PB	2740418
(ADGP PUNJAB SECURITY) CHD	2743337
8. AMBULANCE	102
P.G.I ENQUIRY	2756565, 2746018
GMCH, SEC-16	2768201, 2768202, 2782457
UT RED CROSS	2744188
PUNJAB RED CROSS	2780827, 2542180
9. SECURITY POST AT 66KV SUB-STATION	PBX-427
IND. AREA PH- 1	
10. INCHARGE SECURITY SLDC COMPLEX	PBX-129
11. DIRECTOR/POWER REGULATION	2652820
12. ADDL. SE/PC (Control Room)	2639560, FAX NO. 2653297

LIST OF OFFICERS/ STAFF ON SHIFT DUTY

Address: Power Controller, BBMB, SLDC Complex
Indl Area, Phase- I, Chandigarh

Sr. No.	Name	Designation
	Er. Rajiv Sharma	ASE/OP
	Er. Sanjay Kumar Sekhri	ASE/OP
	Er. Sawinder Singh	ASE/OP
	Er. S.P. Pasrija	ASE/OP
	Er. B.B.Sharma	ASE/OP
	Er. Charanjit Bhatia	APC
	Er. Ansh Jain	APC
	Er. Naresh Kumar	APC
	Er. Bakshish Chand	APC
	Er. Jatinder Singh	APC
	Sh. ParveshGachli	JE
	Sh. Ashok Kumar	JE
	Sh. Charanjit Singh	JE
	Sh. Kapil Dev	JE
	Sh. Gurinder Singh	Telephonist
	Sh. Sulekh Kumar	Telephonist
	Sh. Ajmer Singh	T-mate
	Sh. Surjit Singh	T-mate
	Sh. Parveen Kumar	T-mate
	Sh. Satyawar	Beldar

LIST OF PERSONNEL IN EACH SHIFT

Sr. No.	Designation	
1.	Addl. SE/Sr. XEN/Shifts	1
2.	APC	1
3.	JE	1
4.	Jr. Programmer/TPO/Telephonist	1
5.	T-mates	1
6.	Security Personnel	2 (PESCO)
7.	Data Entry Operator	1
TOTAL		8

AVAILABILITY OF TRANSPORT

The vehicles mentioned here under are available during office hours.

Sr. No.	Registration No. of Vehicles	Type of Vehicle
1.	CH-01-G1-2186	CAR
2.	CH-01-G1-2793	"
3.	CH-01-GA-1182	"
4.	CH-01-G1-7578	JEEP
5.	CH-01-GA-1101	CAR
6.	CH-01-G1-4551	"
7.	CH-01-G1-4303	"

Sr. No.	Registration No. of Vehicles	Type of Vehicle
1.	CH-01-G1-2186	CAR Accent PR
2.	CH-01-G1-2793	“ Indigo car pool SO
3.	CH-01-GA-1182	“ Chief SO Scala
4.	CH-01-G1-7578	JEEP Bolero SO
5.	CH-01-GA-1101	CAR CETS Ciaz
6.	CH-01-G1-4551	“ SCALA P&C
7.	CH-01-G1-4303	“ Indigo common pool TS

**CRISIS MANAGEMENT PLAN IN RESPECT OF SYSTEM LOAD
DESPATCH CENTRE, BBMB, CHANDIGARH.**

NAME OF INSTALLATION: SLDC COMPLEX, BBMB, CHANDIGARH

POPULATION:

OFFICE	G.E	NGE	PESCO	Total
Chief Engineer / S.O	5	20	2	27
Chief Engineer / T.S	6	35	14	55
Director / PR	25	38	17	80
Director / P&D/ T.S	19	21	8	48
Director / P&C	3	12	6	21
Director / P&D (PP)	16	26	4	46
Total	74	152	51	277

AREA : 3 Acres

OFFICE	G.E	NGE	PESCO	Total
Chief Engineer / S.O	4	20	4	28
Chief Engineer / T.S	6	35	14	55
Director / PR	13	18	10	41
Director / P&D	16	29	7	52
Director / P&C	2	13	5	20
Addl. S.E/ P.C Divn.				
1. General Duty	2	7	4	13
2. Shift Duty	10	13		23
Total	53	135	44	232