

MANDATORY SPARES		
	ITEM DESCRIPTION	QUANTITY
	2. QB Detectors	20% -do-
	3. Spot /Heat detectors(for boiler burner front area and Battery room)	20% -do-
12.0	HYDRANT VALVE	
	1. Hydrant valve complete (internal) single headed with instantaneous female coupling	20% of population
	2. Hydrant valve complete (external) single headed with instantaneous female coupling	20% -do-
	3. Hydrant valve complete(double headed) with instantaneous female coupling	10% -do-
	4. Water monitor sets with nozzle branch pipe etc.	10% -do-
	5. Spindle with nuts of Hydrant valve	10% -do-
	6. Bonnet, gland nut, rubber assembly of hydrant valve	10% -do-
	7. Seat, check nut, washer assembly of hydrant valve	10% -do-
	8. Rubber washer for female coupling	20% -do-
	9. Instnataneous female coupling assembly complete for hydrant valve	20% -do-
	10. Lock pin assy for hydrant valve	20% -do-
13.0	SMOKE / HEAT DETECTORS	
	1. Photo-electric type detector(Addressable)	10% of population
	2. Ionisation type detectors(Addressable)	10% -do-
	3. Indicators assembly for smoke detectors provided in false ceiling	5% -do-
	4. Duct Mounted Detectors	10% -do-
	5. LHS cable	10% -do-
	6. Sopt type heat detectors	10% -do-
14.0	INFRA RED DETECTORS	
	1. IRD unit with local control unit, purging unit, other accessories (for complete replacement)	20% of population
15.0	PORTABLE EXTINGUISHERS	
	1. Portable extinguishers	10% of each type & size
	a) Water Type	
	b) Foam Type	
	c) CO ₂ Type	
	d) Dry Chemical Type	
16.0	MOBILE EXTINGUISHERS	10% of each type & size
	a) Foam type	
	b) Dry Chemical Type	
	c) CO ₂ Type	
17.00	FIRE ALARM CONTROL/ANNUNCIATION PANELS (Addressable)	
	1. Fuses	100% of population
	2. Indicating lamps	100 % -do-

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	ITEM DESCRIPTION	QUANTITY
	3. Lamp holders	10 % -do-
	4. Push Buttons	10 % -do-
	5. Selector Control Switches	10 % -do-
	6. Auxiliary relays/Contractors	10 % -do-
	7. Annunciation window lamps	10 % -do-
	8. Control cards for annunciation facia, fire detection system, gas extinguishing etc of each type	10 % -do-
	9 All PCB assmeby cards, loop cards in cluding mother boards etc	10 % -do
	10 LCD display units of panels	10 % -do
	11 Interface units/ modules for noon-addressable devices, output relay modules, supervisory control modules etc	10 % -do
	12 LED's if applicable	100% of population
	13 Power supply modules	10 %
18.0	FIELD DEVICES	
	1. Pressure gauges	5 nos.
	2. Temprature gauges	2 Nos.
	3. Level Indicator	2 Nos.
	4. Pressure Switches	5 Nos.
	5. Flow Switches	2 Nos.
	6. Limit Switches for isolation valves.	20 Nos.
19.0	INERT GAS EXTINGUISHING SYSTEM	
	1. Nozzles	2 Nos of each size/type
	2. Automatic & Manual release system	1 No of each size/type
	3. Cylinder valve with safety pressure relief device	1 No of each size/type
	4. Gas cylinder	5 Nos. of each size/type
	5. Flexible hoses(if applicable)	2 Nos of each size/type
	6. Solenoid coils	2 Nos.of each size/type
NOTE:		
1. Wherever set is mentioned, one set of the spares of that item shall be for complete replacement of that particular item for one equipment.		
2. Any fraction of a item shall mean the next higher integer.		

9.00 AIR CONDITIONING SYSTEM

S.No.	Description	Quantity
1.	Reciprocating Chilling Machine	
a	Compressors with motors	1 No.
b	Piston	1Set.
c	Valve Plate, spring plate, seating washer	4 Nos.
d	Suction and discharge valve required for compressors	1 Set.
e	Piston ring/Guide ring	6 Sets
f	V-belts for compressor	4 Sets
g	Oil pressure failure safety switch	2 Nos.
h	Crank-case heater	2 Nos.
i	Gaskets	2 Sets
j	Set of 'O' rings and oil seals each type	2 Sets
k	Suction filter elements	4 Sets



1 x 660 MW - Panki Thermal Power Station

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