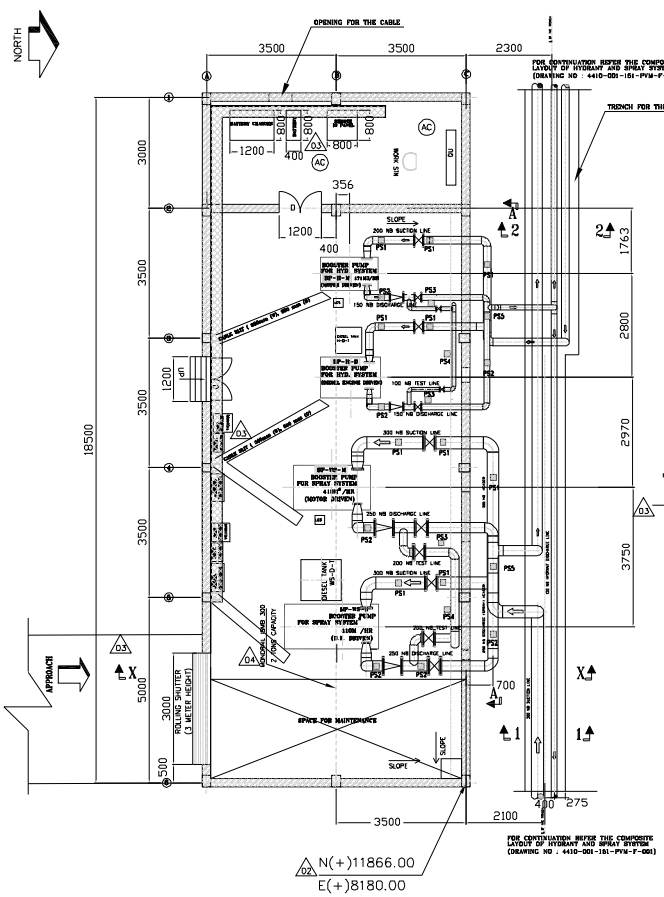
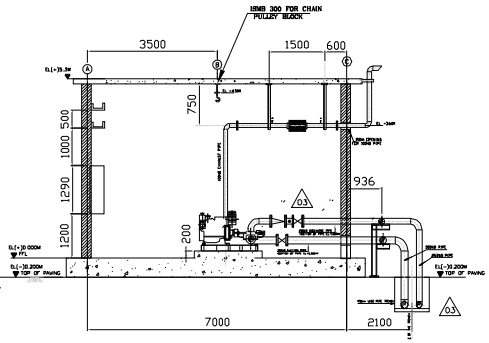
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

SH. 1 OF 1 DRG. NO. 1-38316-00079





SECTION -X-X

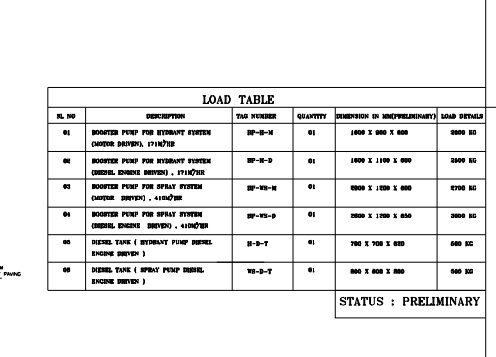
LEGEND:-

1.		FIRE WATER LINE
2.		CONCENTRIC REDUCER
3.		ECCENTRIC REDUCER
4.		GATE VALVE NORMALLY OPEN
5.		GATE VALVE NORMALLY CLOSED
6.		NON RETURN VALVE
7.		PIPE SUPPORT (PS)
8.	DEL	DELIVERY
9.	SUC	SUCTION
10.	FGL	FINISHED GROUND LEVEL
11.	FFL	FINISHED FLOOR LEVEL
12.	HPP	HIGHEST PAVING POINT

LOAD TABLE

SL NO	DESCRIPTION	TAG NUMBER	QUANTITY	DIMENSION IN MM(PRELIMINARY)	LOAD DETAILS
01	BOOSTER PUMP FOR HYDRANT SYSTEM (MOTOR DRIVEN), 1710M³/HR	HP-H-M	01	1600 X 800 X 600	2000 KG
02	BOOSTER PUMP FOR HYDRANT SYSTEM (DIESEL ENGINE DRIVEN) , 1710M³/HR	HP-H-D	01	1600 X 1100 X 600	2000 KG
03	BOOSTER PUMP FOR SPRAY SYSTEM (MOTOR DRIVEN) , 410M³/HR	SP-HS-M	01	2300 X 1200 X 600	2700 KG
04	BOOSTER PUMP FOR SPRAY SYSTEM (DIESEL ENGINE DRIVEN) , 410M³/HR	SP-HS-D	01	2300 X 1200 X 650	2800 KG
05	DIESEL TANK (HYDRANT PUMP DIESEL ENGINE DRIVEN)	H-D-T	01	700 X 700 X 850	560 KG
06	DIESEL TANK (SPRAY PUMP DIESEL ENGINE DRIVEN)	HS-D-T	01	800 X 800 X 850	560 KG

STATUS : PRELIMINARY



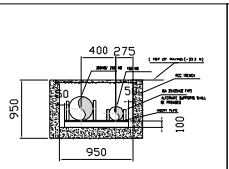
KEY PLAN

BILL OF MATERIAL :

NAME OF THE ITEM	300 NB	250 NB	200 NB	150 NB	100 NB
MS PIPE AS PER IS1239/3589 △04	30 M	30 M	48 M	48 M	18 M
CI GATE VALVE △04	2	2	4	2	2
CI NRV △04		2		2	

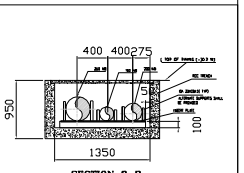
NOTES:

1. ALL DIMENSIONS ARE IN mm. & ELEVATION ARE IN Mtrs.
2. EL(+/-)0.0M CORRESPONDS TO RL(+)457.5M
3. CHAIN PULLEY BLOCK OF 2 TONS CAPACITY.
4. MINIMUM HT REQUIRED: CRANE HOOK ELEVATION .4.0M
5. DETAILS OF MONORAIL SHALL BE AS PER TECHNICAL SPEC. △04
6. ALL TESTING SHALL BE DONE AS PER TECHNICAL SPEC. △04
7. THE DIMENSIONS FOR THE EQUIPMENTS INSIDE THE PUMP HOUSE ARE PRELIMINARY .
8. THE LOCATION AND DETAILS OF THE WINDOWS SHALL BE COVERED IN ARCHITECTURAL DRAWING.



SECTION 1-1

TYPICAL SECTION DETAILS TWO PIPES

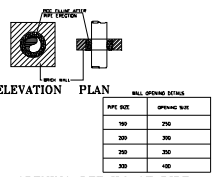


SECTION 2-2

TYPICAL SECTION DETAILS THREE PIPES

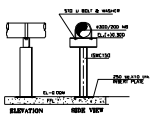
REFERENCE DRAWINGS:-

1. PLOT PLAN: - PE-DG-405-100-M001
2. COMPOSITE LAYOUT OF HYDRANT AND SPRAY SYSTEM (DRAWING NO : 4410-001-151-PVM-F-001)

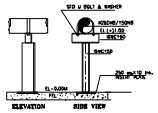


OPENING DETAILS OF PIPE

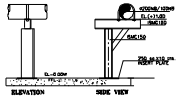
PIPE SIZE	OPENING SIZE
150	250
200	300
250	350
300	400



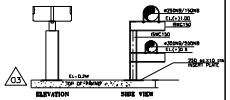
PS-1



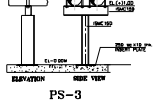
PS-2



PS-4



PS-5

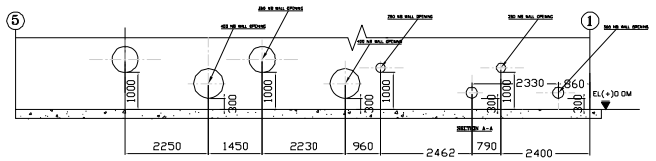


PS-3

LEGEND

SL NO	SYMBOL	DESCRIPTION
01	TOP	TOP OF PAVING
02	FGL	FINISHED GROUND LEVEL
03	FFL	FINISHED FLOOR LEVEL

WALL OPENING DETAILS FOR PIPES △02



SECTION A-A

STATUS: PRELIMINARY

ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.
CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD	
ZONE		ZONE			ZONE			ZONE			ZONE		

DATE	ALTERED	SUMANT	REV.	DATE	ALTERED	SUMANT	REV.	DATE	ALTERED	SUMANT	REV.	DATE	ALTERED	SUMANT
09.11.16	CHD/APPD	AMIT/GUNJAN	03	22.08.16	CHD/APPD	AMIT/GUNJAN	02	21.06.16	CHD/APPD	AMIT	01	03.10.16	CHD/APPD	K GUNJAN
ZONE	REVISED AS PER NTPC'S COMMENTS DATED 07.09.2016.		ZONE	REVISED AS PER NTPC'S COMMENTS DATED 06.07.2016.			ZONE	REVISED AS PER CUSTOMER COMMENTS.			ZONE	REVISED AS PER CUSTOMER COMMENTS.		

NAME OF CUSTOMER/PROJECT: NORTH KARANPURA SUPER THERMAL POWER PROJECT (3X660MW)

NAME OF CONSULTANT: NTPC Limited (A GOVERNMENT OF INDIA ENTERPRISE) ENGINEERING DIVISION

BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	K SUMANT	-SD-	30.03.15
CHD.	K AMIT	-SD-	31.03.15
APPD	K GUNJAN	-SD-	31.03.15

NO.OF VAR. -N.A.-

DEPT. CODE	UNTOL DIMS.	SCALE	WEIGHT (KG)	ITEM NO.	NO.OF ITEMS
I.T.D. 415	CR. C/M/E	1:50	-N.A.-	-N.A.-	-N.A.-

TITLE: EQUIPMENT LAYOUT FOR HYDRANT AND SPRAY BOOSTER PUMP HOUSE

CARD CODE: N.A.

BHEL DRAWING NO. 1-38316-00079

CUSTOMER DRAWING NO. 4410-001-151-PVM-P-010

REV. 04

SHT. No 1 NO. OF SHT. 1

COMPUTER FILE NAME 1383160000079-S00-R04

REF. DRG. NO.

SIGN. AND DATE

INVENTORY NO

GENERAL DIMENSIONAL LIMITS,FITS & TOLERANCES AS PER HY0230261

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