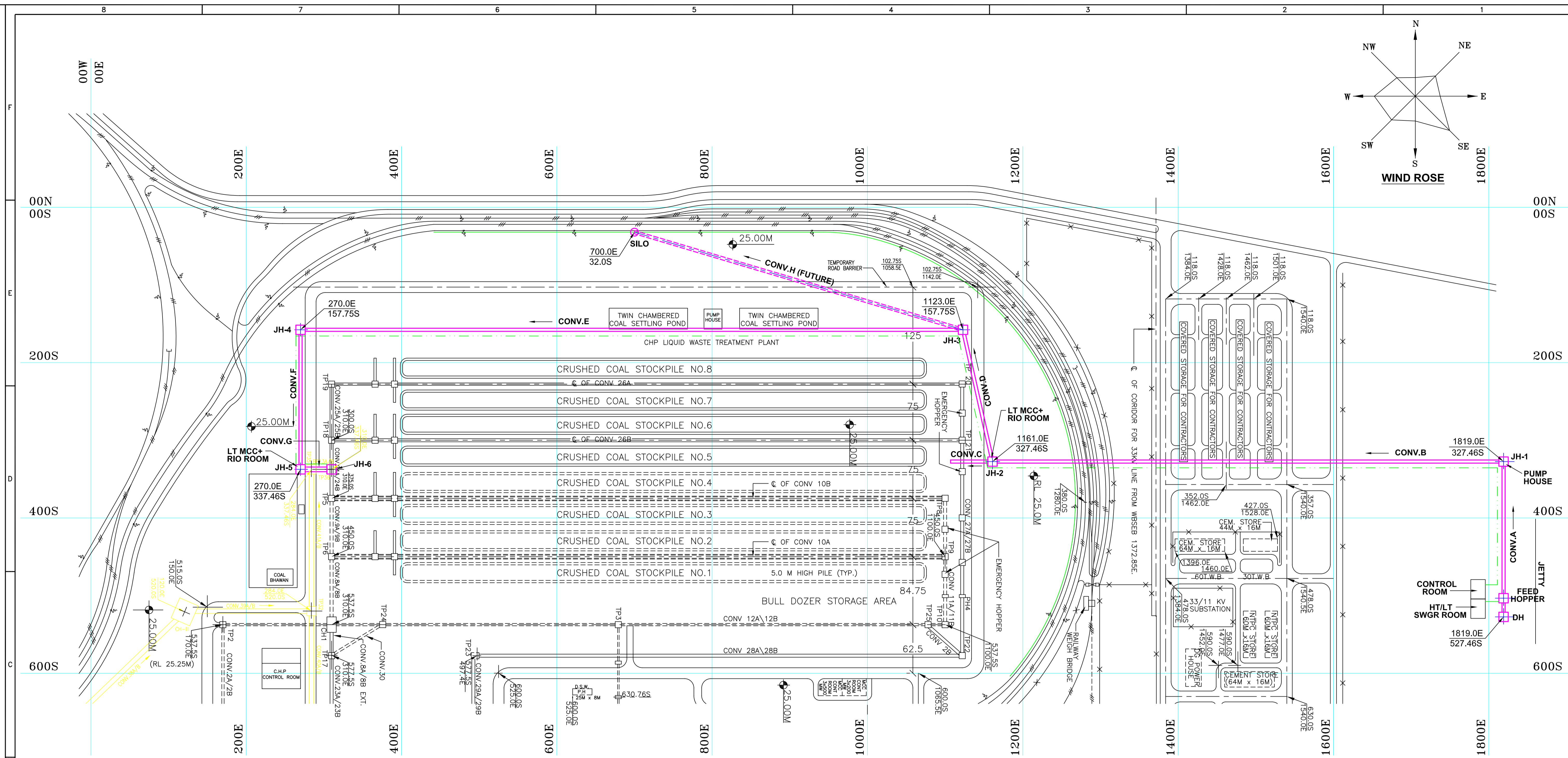
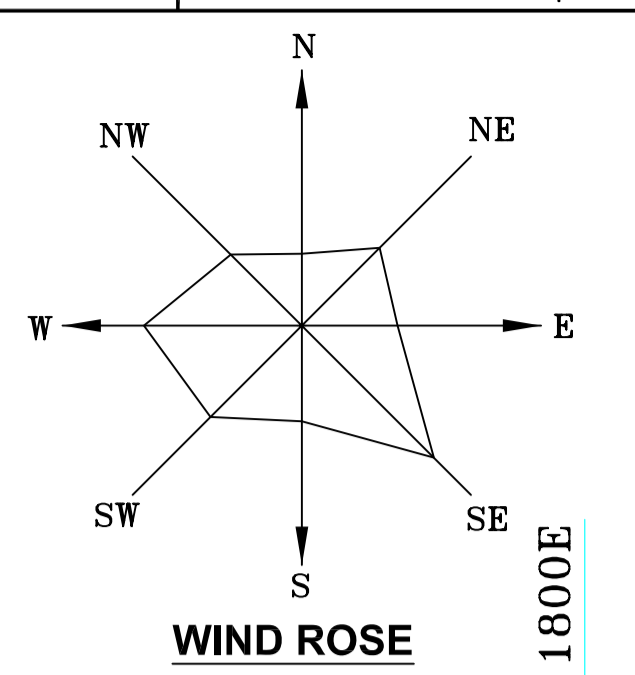


CLAUSE NO.	LIST OF TENDER DRAWINGS																							
	<table border="1"> <thead> <tr> <th data-bbox="412 212 505 281">S.NO.</th> <th data-bbox="505 212 911 281">DRG. NO.</th> <th data-bbox="911 212 1463 281">TITLE</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="412 281 1463 350"><b>A MECHANICAL</b></td> </tr> <tr> <td data-bbox="412 350 505 399">1.</td> <td data-bbox="505 350 911 399">4140-999-POM-A-001</td> <td data-bbox="911 350 1463 399">General Layout Plan</td> </tr> <tr> <td data-bbox="412 399 505 447">2.</td> <td data-bbox="505 399 911 447">4140-999-POM-A-002</td> <td data-bbox="911 399 1463 447">GA of Junction Houses</td> </tr> <tr> <td data-bbox="412 447 505 548">3.</td> <td data-bbox="505 447 911 548">4140-999-POM-A-003</td> <td data-bbox="911 447 1463 548">Single Line Diagram for DS, SW, CW &amp; Potable Water System</td> </tr> <tr> <td colspan="3" data-bbox="412 548 1463 617"><b>B ELECTRICAL</b></td> </tr> <tr> <td data-bbox="412 617 505 737">1.</td> <td data-bbox="505 617 911 737">4140-999-POE-A-001 (Two sheets)</td> <td data-bbox="911 617 1463 737">Coal Conveyors Plant Single Line Diagram</td> </tr> </tbody> </table>			S.NO.	DRG. NO.	TITLE	<b>A MECHANICAL</b>			1.	4140-999-POM-A-001	General Layout Plan	2.	4140-999-POM-A-002	GA of Junction Houses	3.	4140-999-POM-A-003	Single Line Diagram for DS, SW, CW & Potable Water System	<b>B ELECTRICAL</b>			1.	4140-999-POE-A-001 (Two sheets)	Coal Conveyors Plant Single Line Diagram
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<b>B ELECTRICAL</b>																								
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<p align="center">FARAKKA SUPER THERMAL POWER PROJECT COAL CONVEYING PLANT PACKAGE</p>	<p align="center">TECHNICAL SPECIFICATIONS SECTION-VI PART - E</p>	<p align="center">LIST OF TENDER DRAWINGS</p>	<p align="center">PAGE 1 OF 1</p>																					



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- NOTES :**
1. ALL DIMENSIONS AND LEVELS ARE IN METRES.
  2. FORMATION LEVEL OF THE PROJECT SITE IS AS SHOWN FOR VARIOUS BLOCKS.
  3. ELEVATION 0.00 CORRESPONDS TO RL(+)+26.50M
  4. COORDINATES INDICATED ARE TENTATIVE. ACTUAL COORDINATES SHALL BE DECIDED AFTER SITE SURVEY.
  5. ALL ROAD CROSSINGS/ RAILWAY LINE CROSSINGS FOR CONV. GALLERY SHALL BE MIN. 8M.
  6. CONV. C SHALL HAVE NO TRESTLES BEYOND ROAD UPTO STOCK YARD. CONV. C DISCHARGE POINT SHALL BE AT A HEIGHT OF 12M (MINIMUM).
  7. BIDDER SHALL CARRY OUT SITE SURVEY AND DISMANTLING AND/OR MODIFICATION/RELOCATION OF ANY BUILDING/STRUCTURE/ROADS IS REQUIRED TO BE DONE TO COMPLETE THE WORK IN BIDDER'S SCOPE AND WHICH HAS BEEN AGREED BY THE EMPLOYEE, THE SAME SHALL BE DONE BY THE BIDDER.

- LEGEND :**
1. ROADS
  2. FENCING
  3. RAILWAY LINE
  4. FACILITIES FOR COAL CONVEYING PLANT
  5. FORMATION LEVEL (+)26.00M
  6. CABLE TRESTLE

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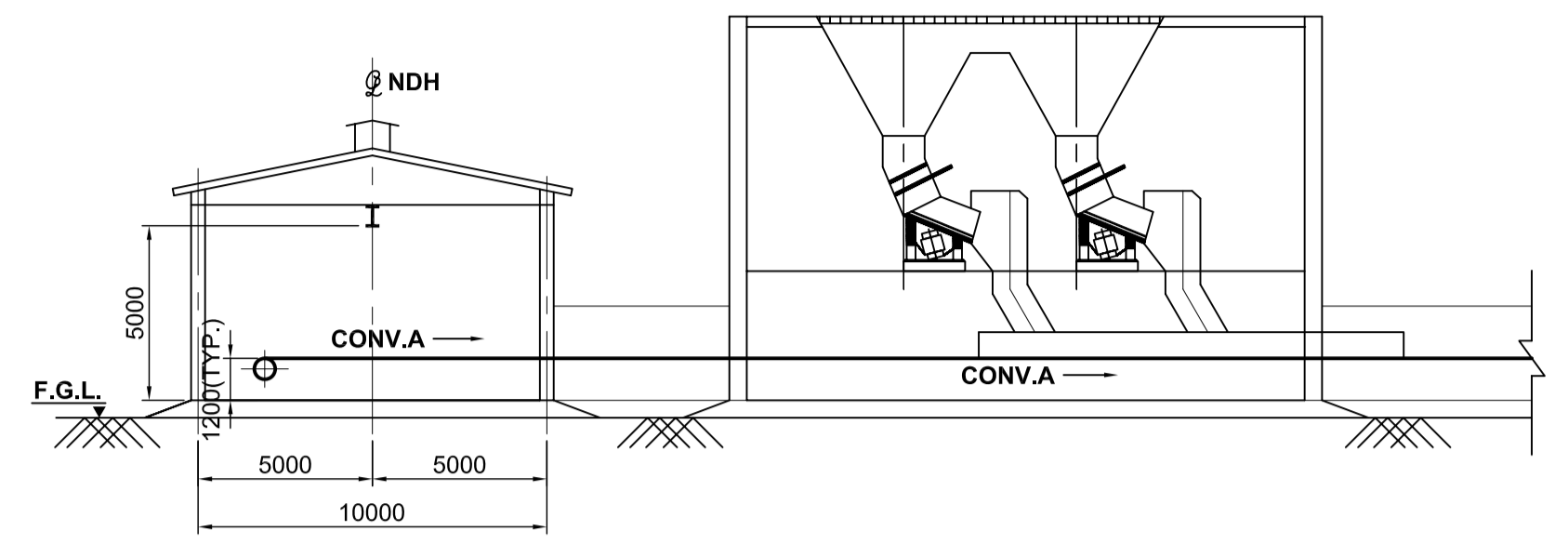
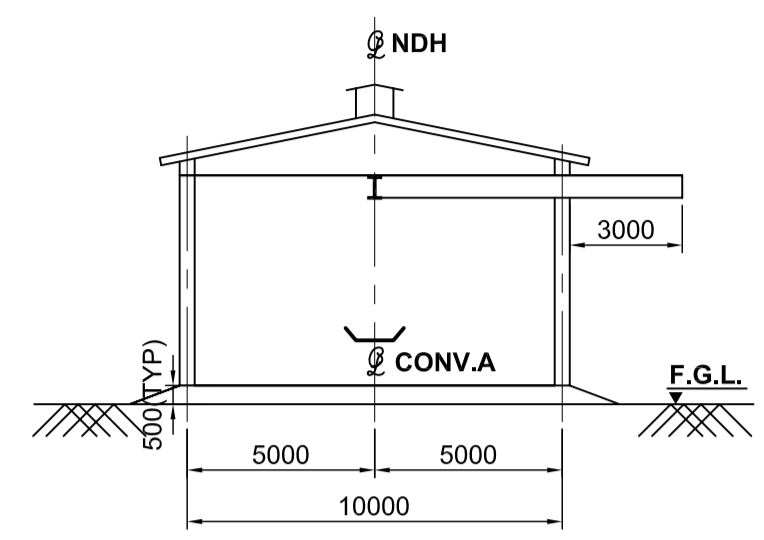
PROJECT **FARAKKA SUPER THERMAL POWER PROJECT**

TITLE **COAL CONVEYING PLANT PACKAGE  
GENERAL LAYOUT PLAN**

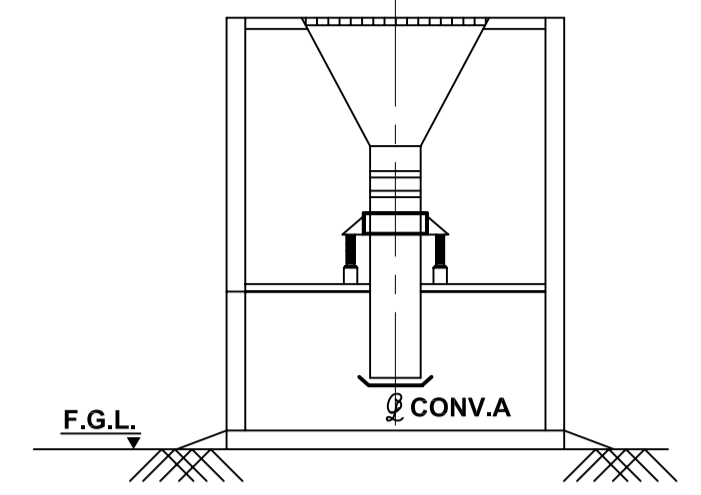
SIZE A1 SCALE 1:2500 DRG. NO. **4140-999-POM-A-001** REV. A

REV.	DESCRIPTION	DRAWN	DESIGN	CHKD.	C	M	E	C&I	APPD	DATE
A	RELEASED FOR TENDER									24/11/10

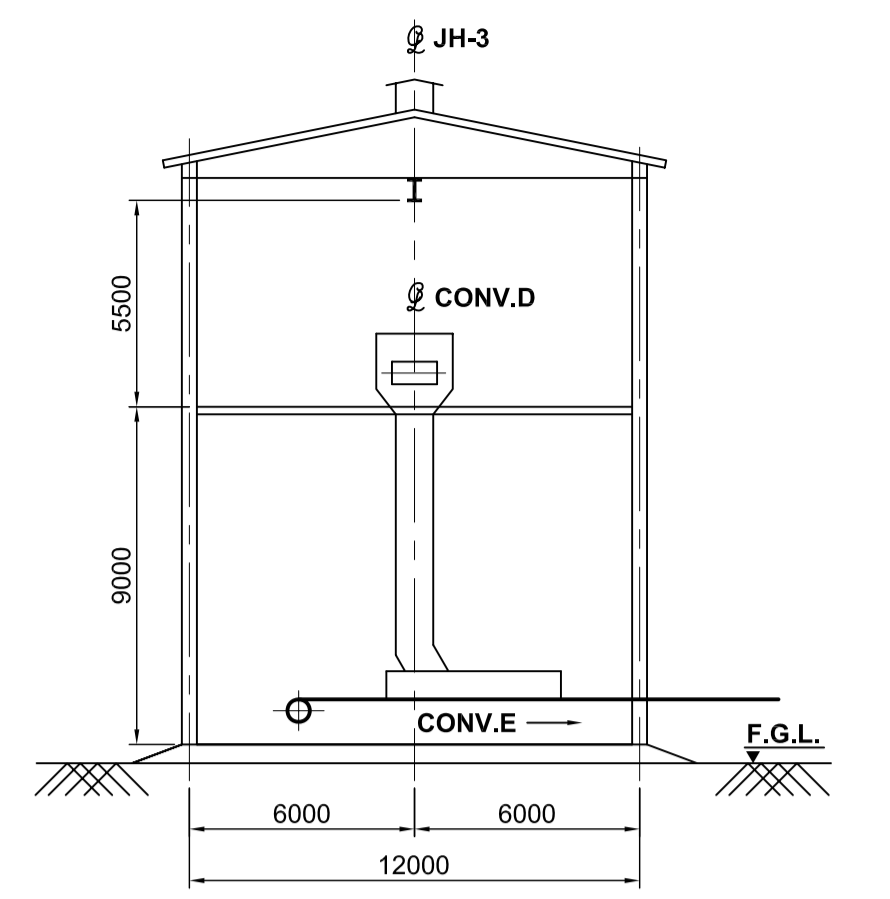
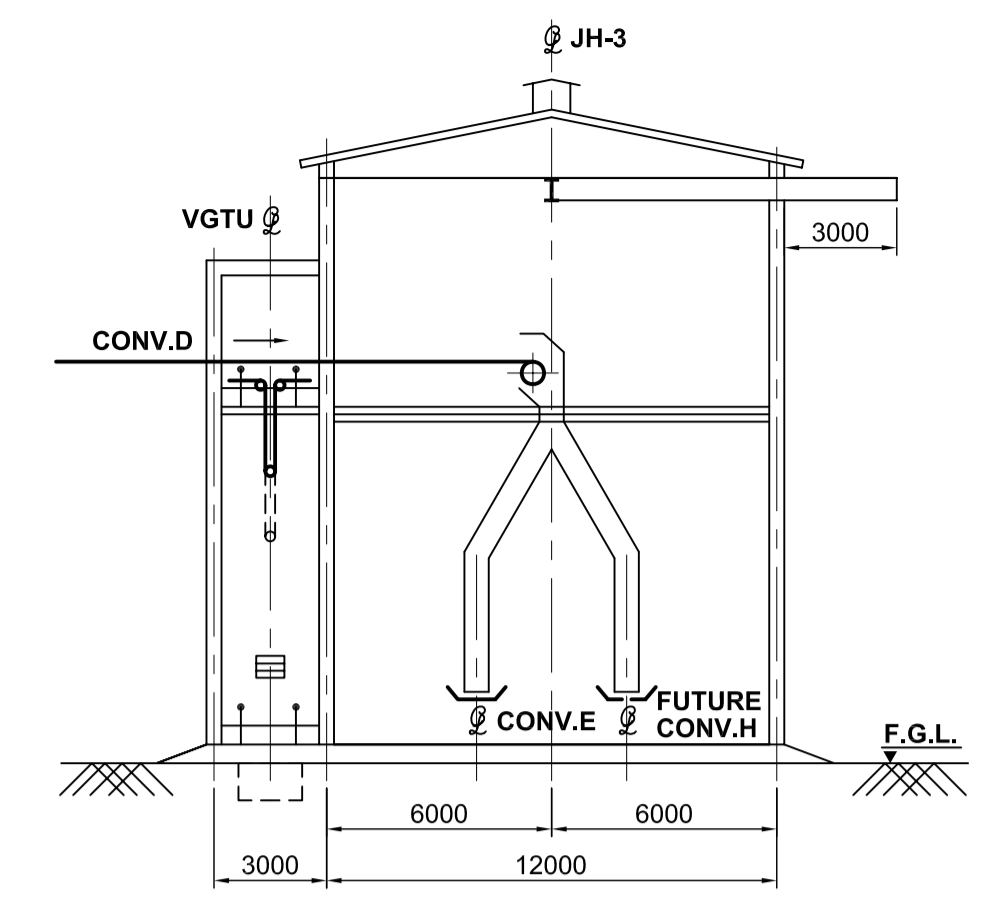
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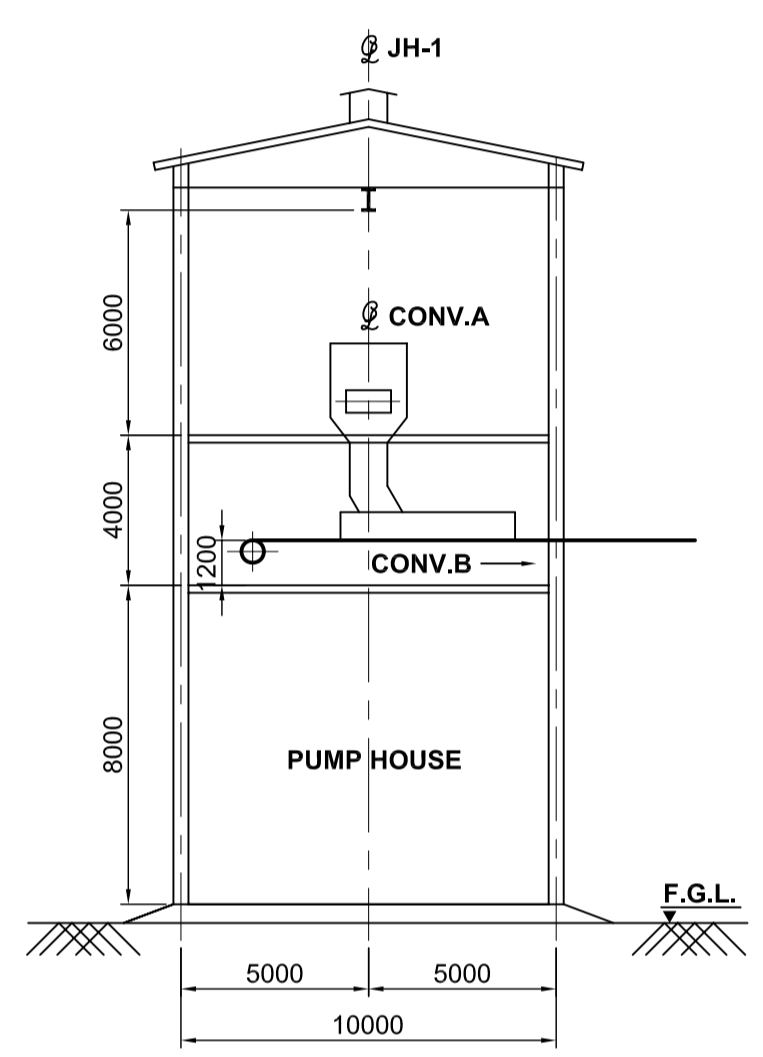
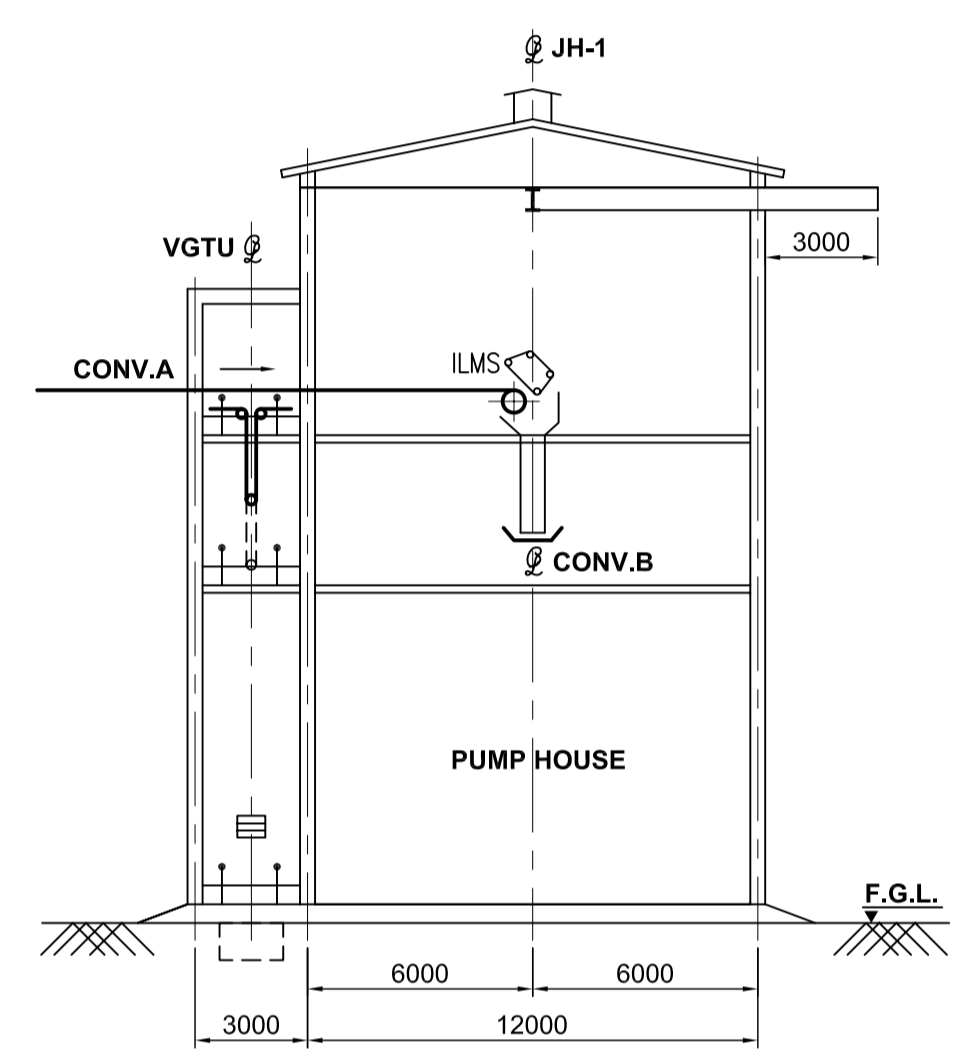
**G. A. OF NDH AND FEED HOPPER**



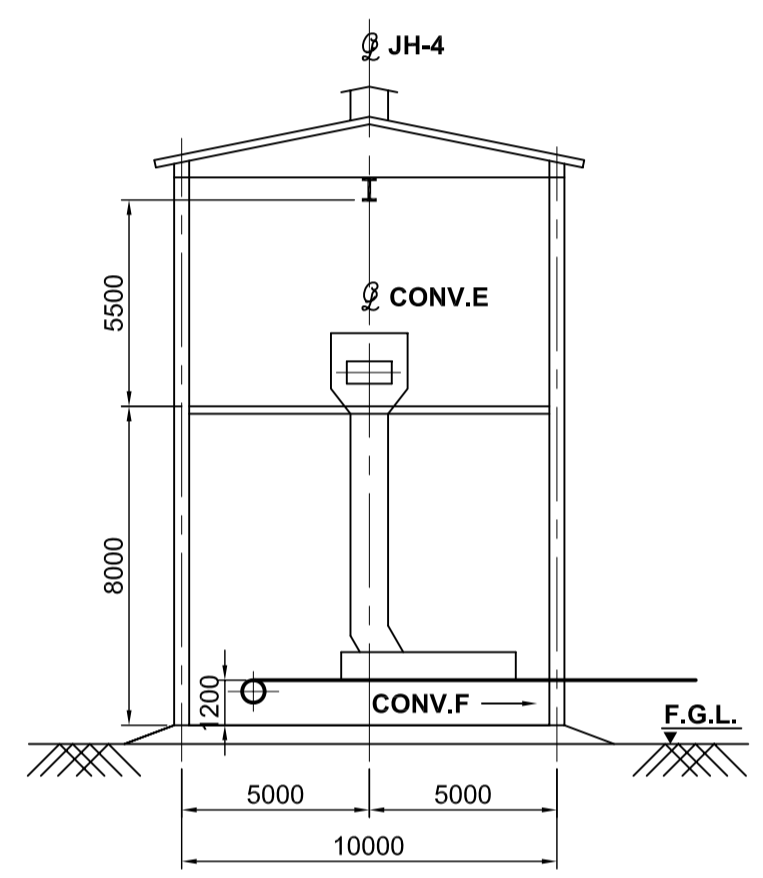
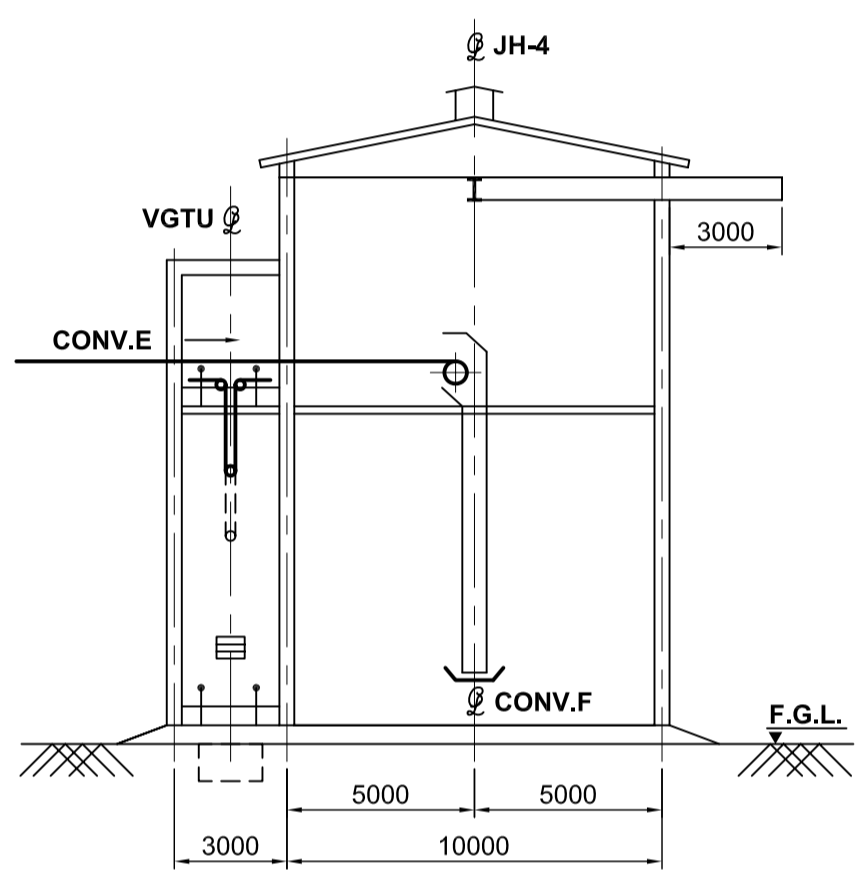
**SIDE VIEW OF FEED HOPPER**



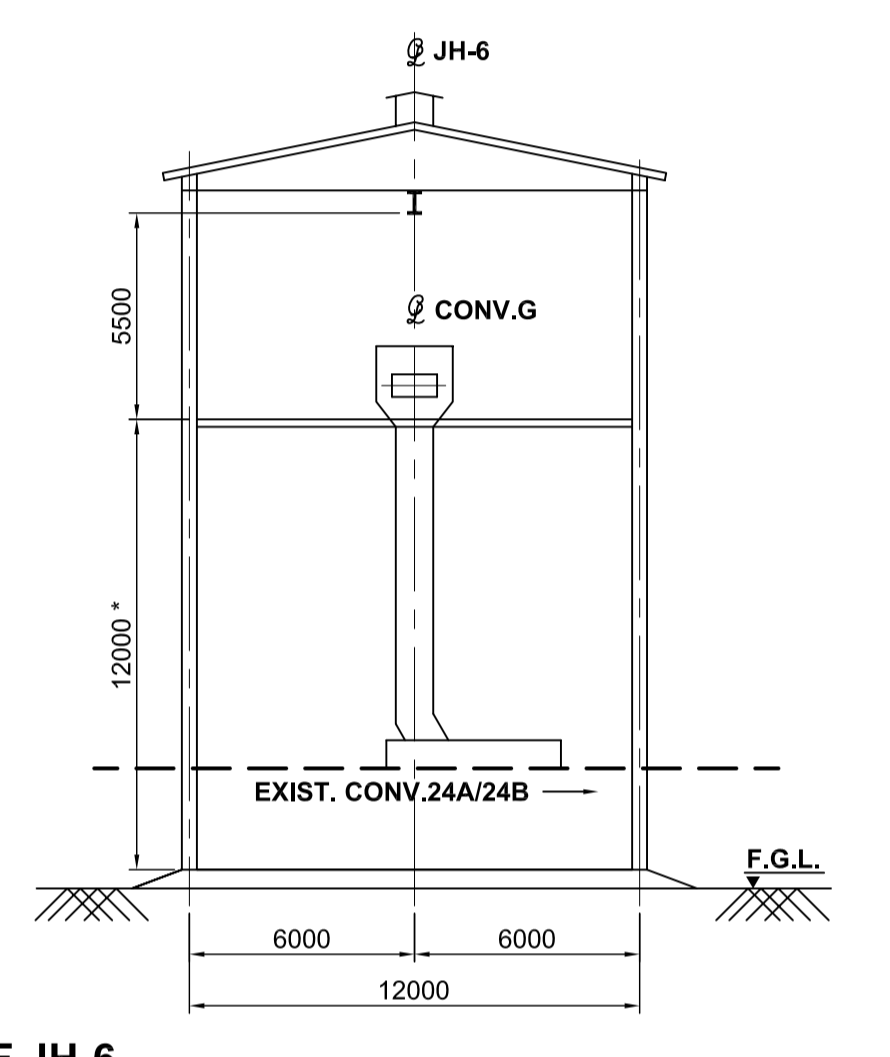
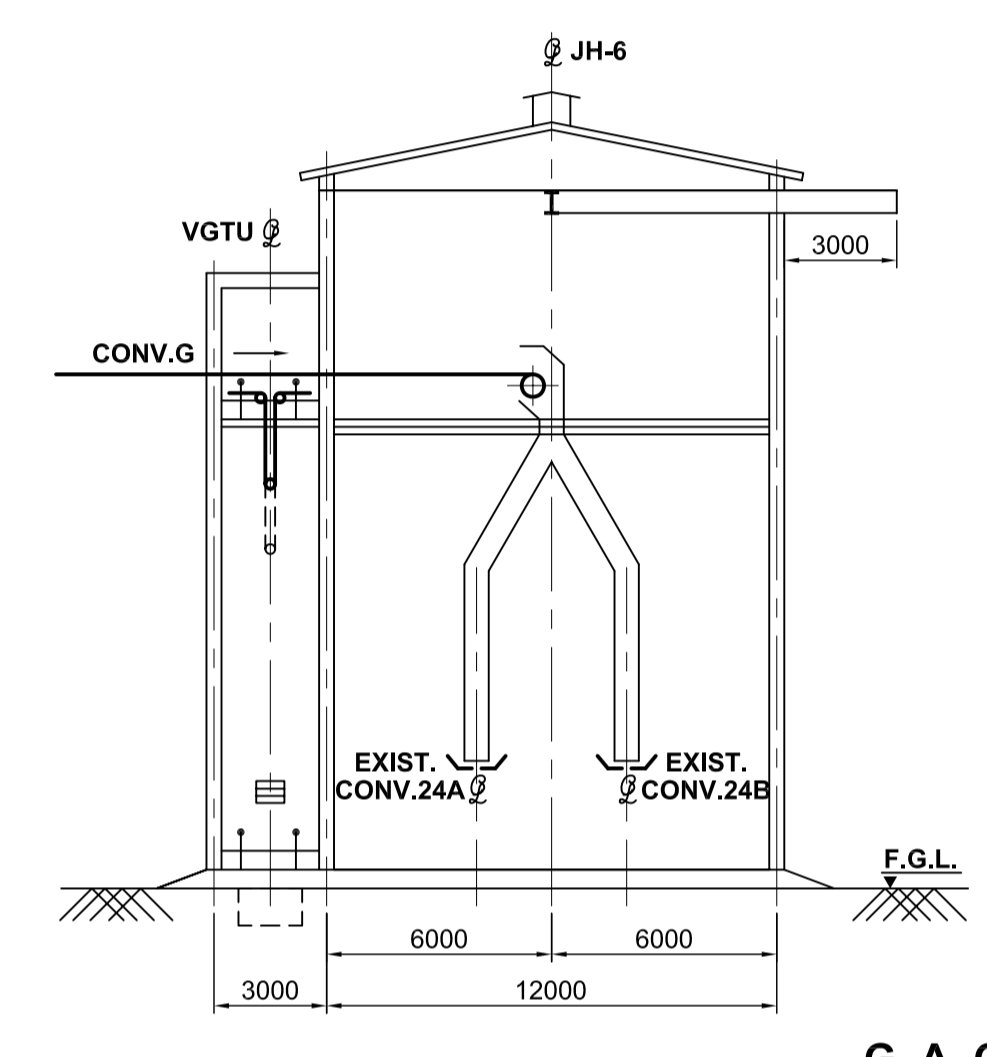
**G. A. OF JH-3**



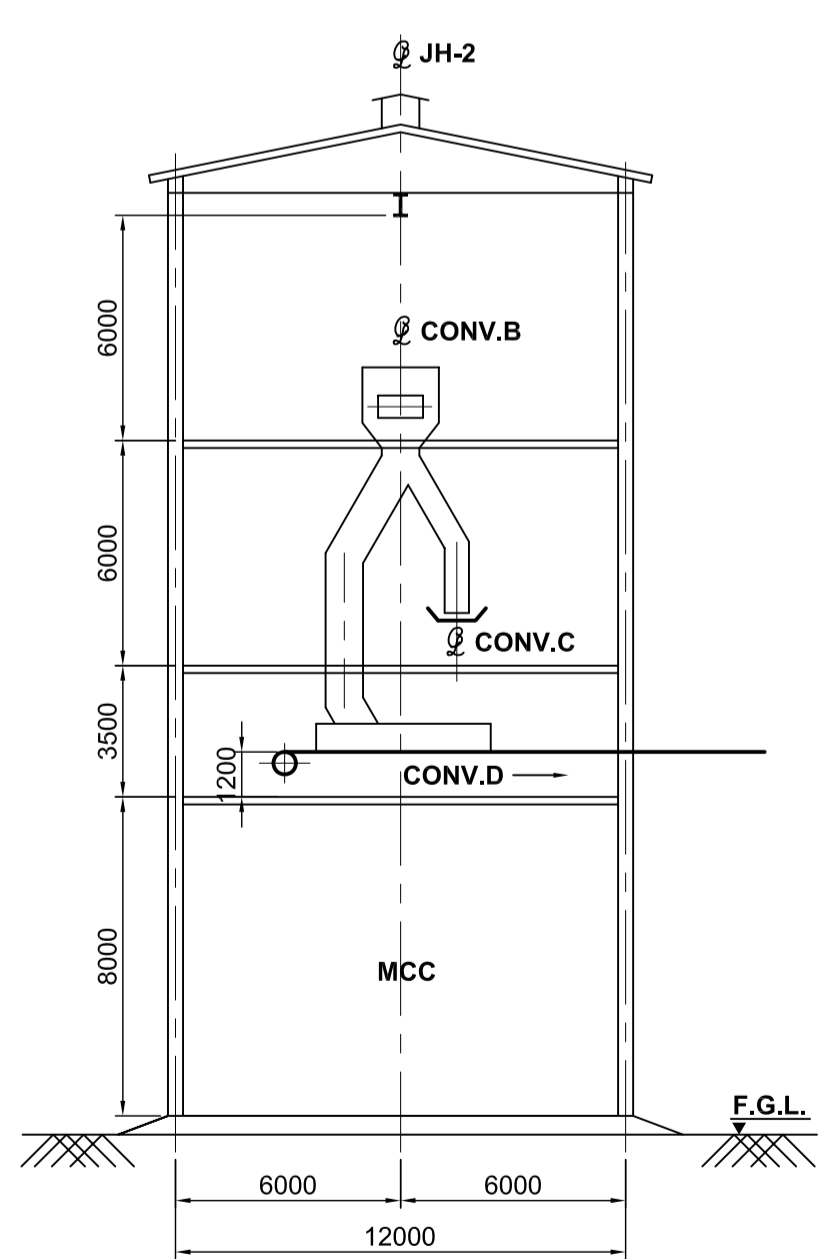
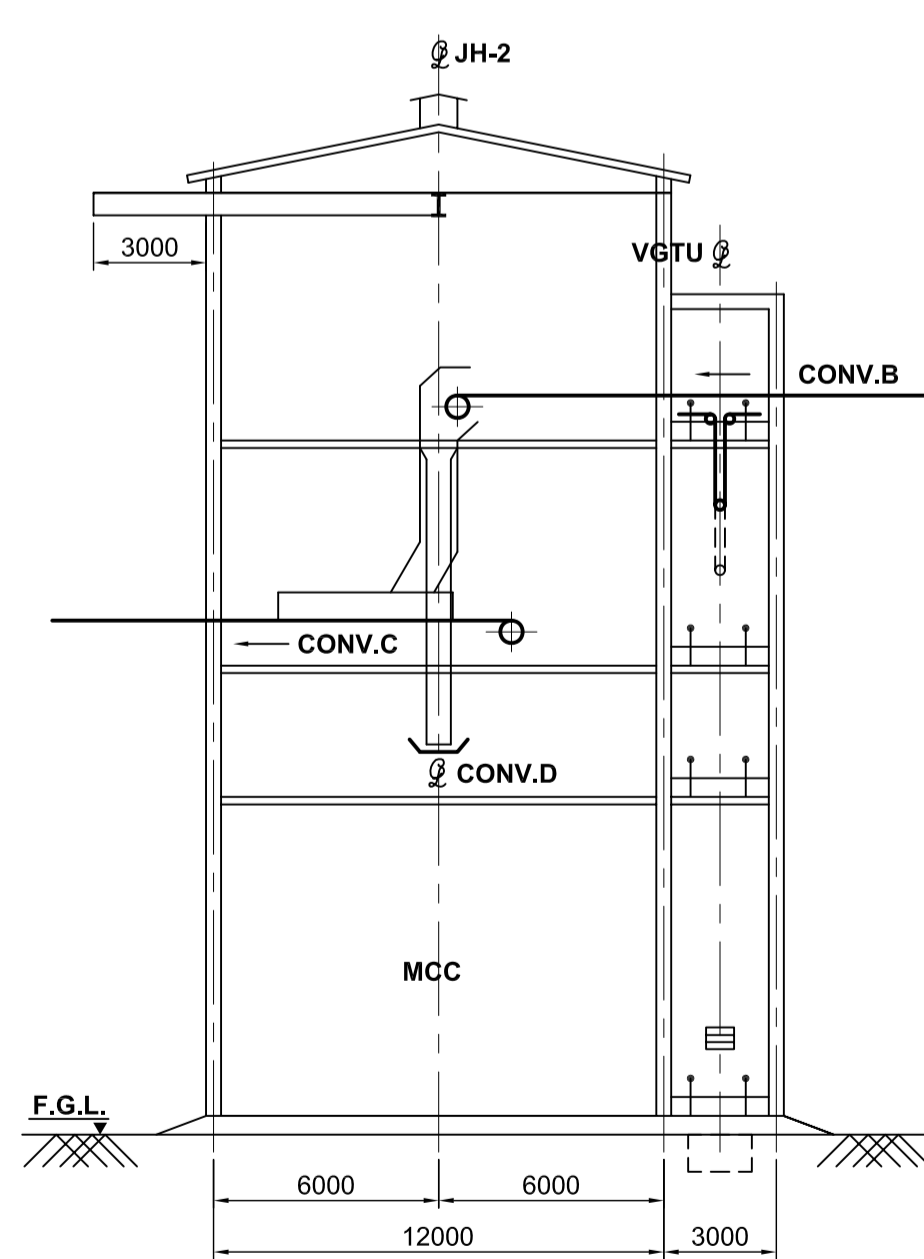
**G. A. OF JH-1**



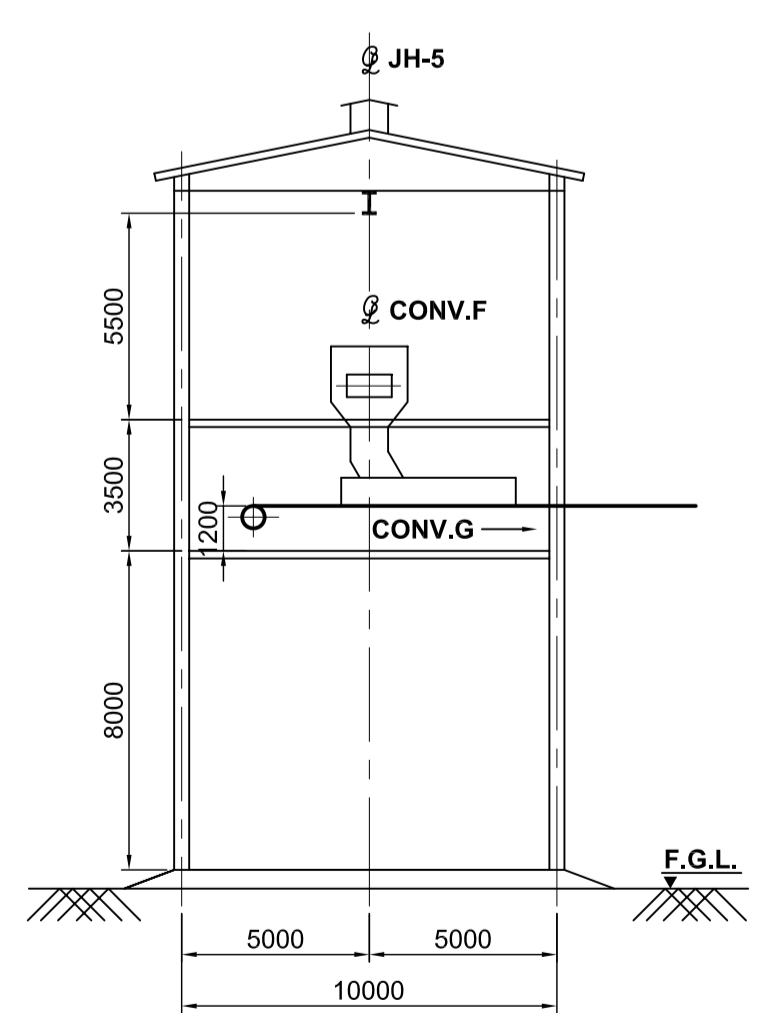
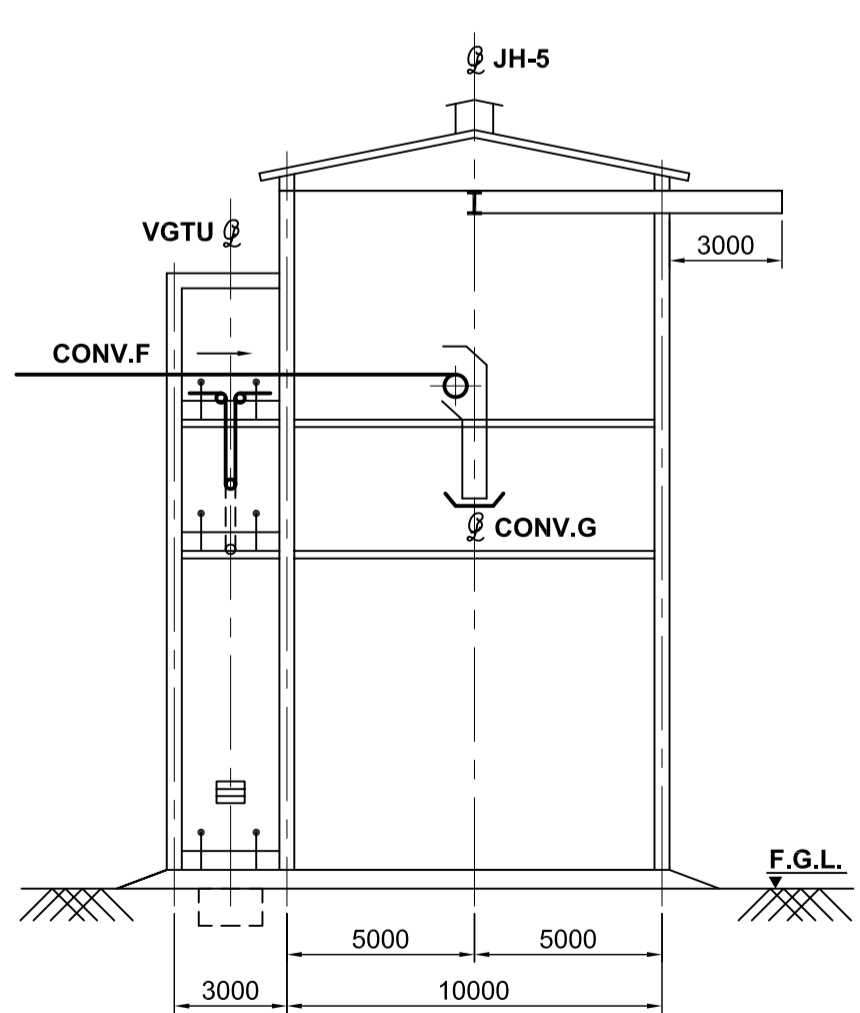
**G. A. OF JH-4**



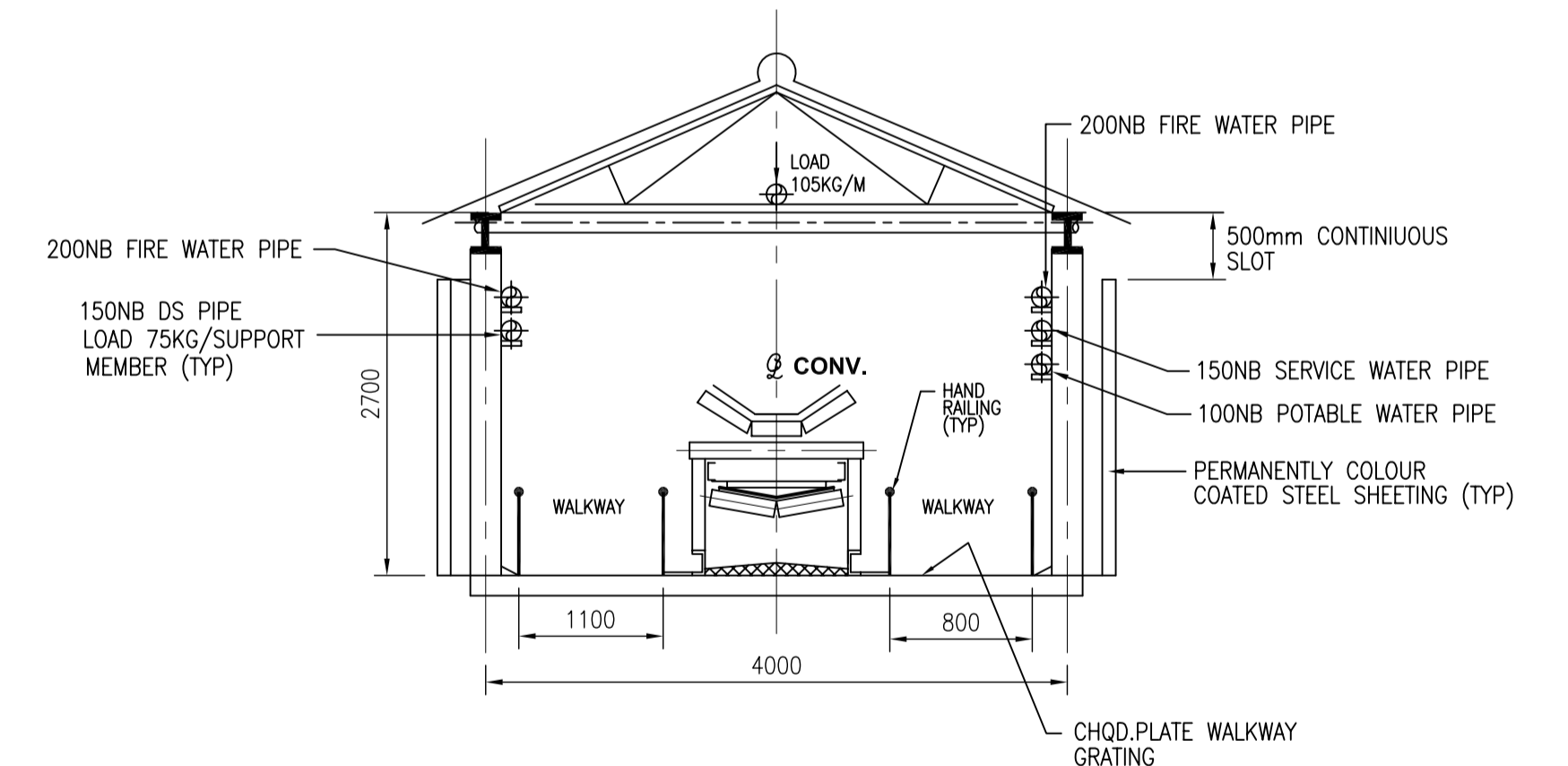
**G. A. OF JH-6**  
(\* TO SUIT EXISTING CONVEYOR)



**G. A. OF JH-2**



**G. A. OF JH-5**



**TYPICAL CROSS SECTION FOR SINGLE CONVEYOR GALLERY**

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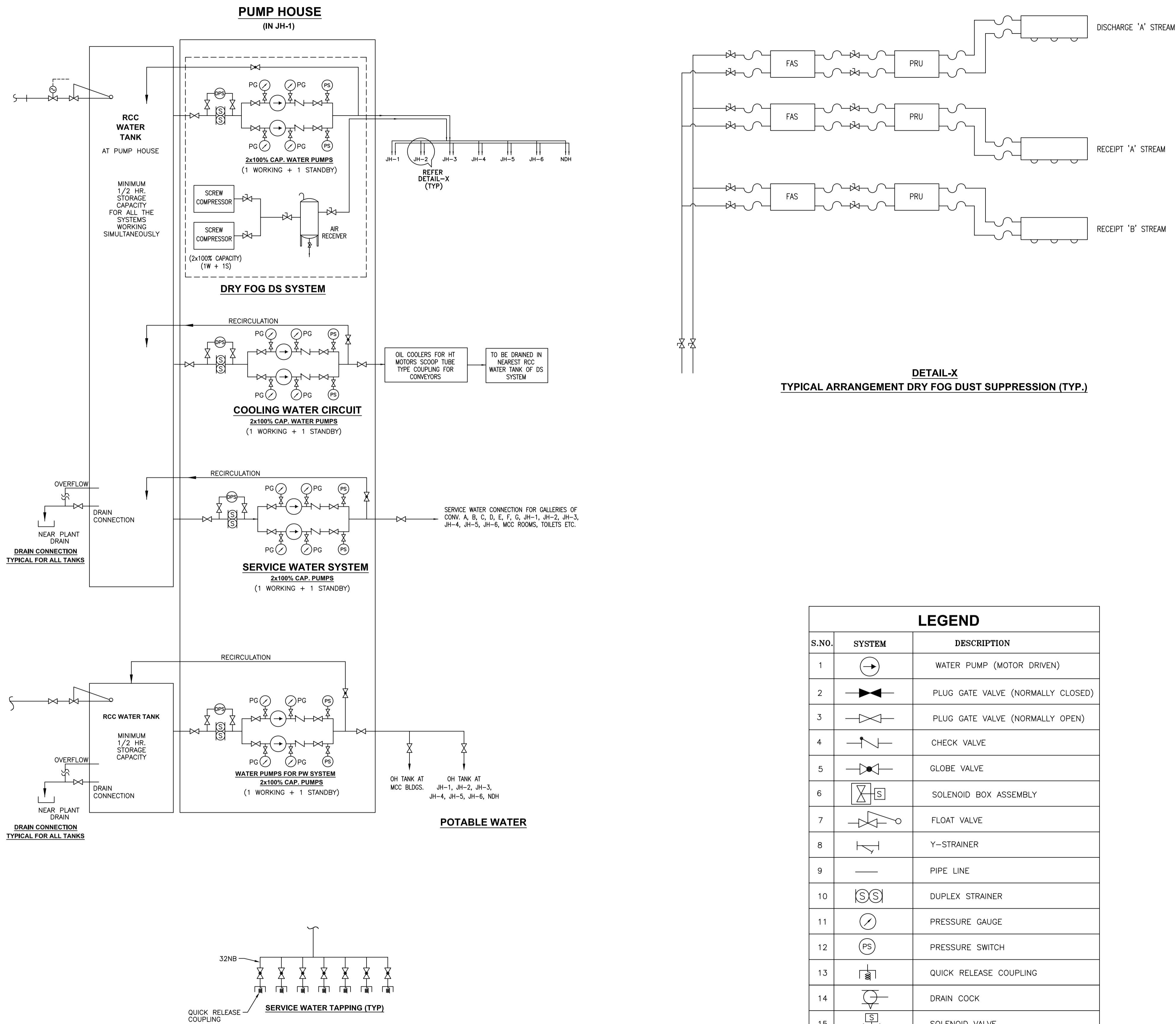
PROJECT **FARAKKA SUPER THERMAL POWER PROJECT**

TITLE **COAL CONVEYING PLANT PACKAGE  
G.A. OF JUNCTION HOUSES, NDH, FEED HOPPER &  
TYPICAL SECTION OF SINGLE CONVEYOR GALLERY**

SIZE A1 SCALE 1:200 DRG. NO. **4140-999-POM-A-002** REV. A

REV.	DESCRIPTION	DRAWN	DESIGN	CHKD.	C	M	E	C&I	APPD.	DATE
A	RELEASED FOR TENDER									28.11.10

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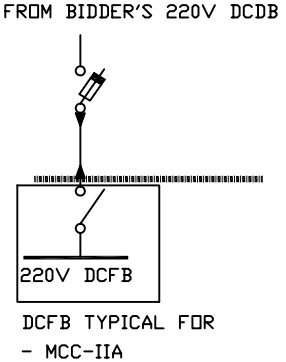
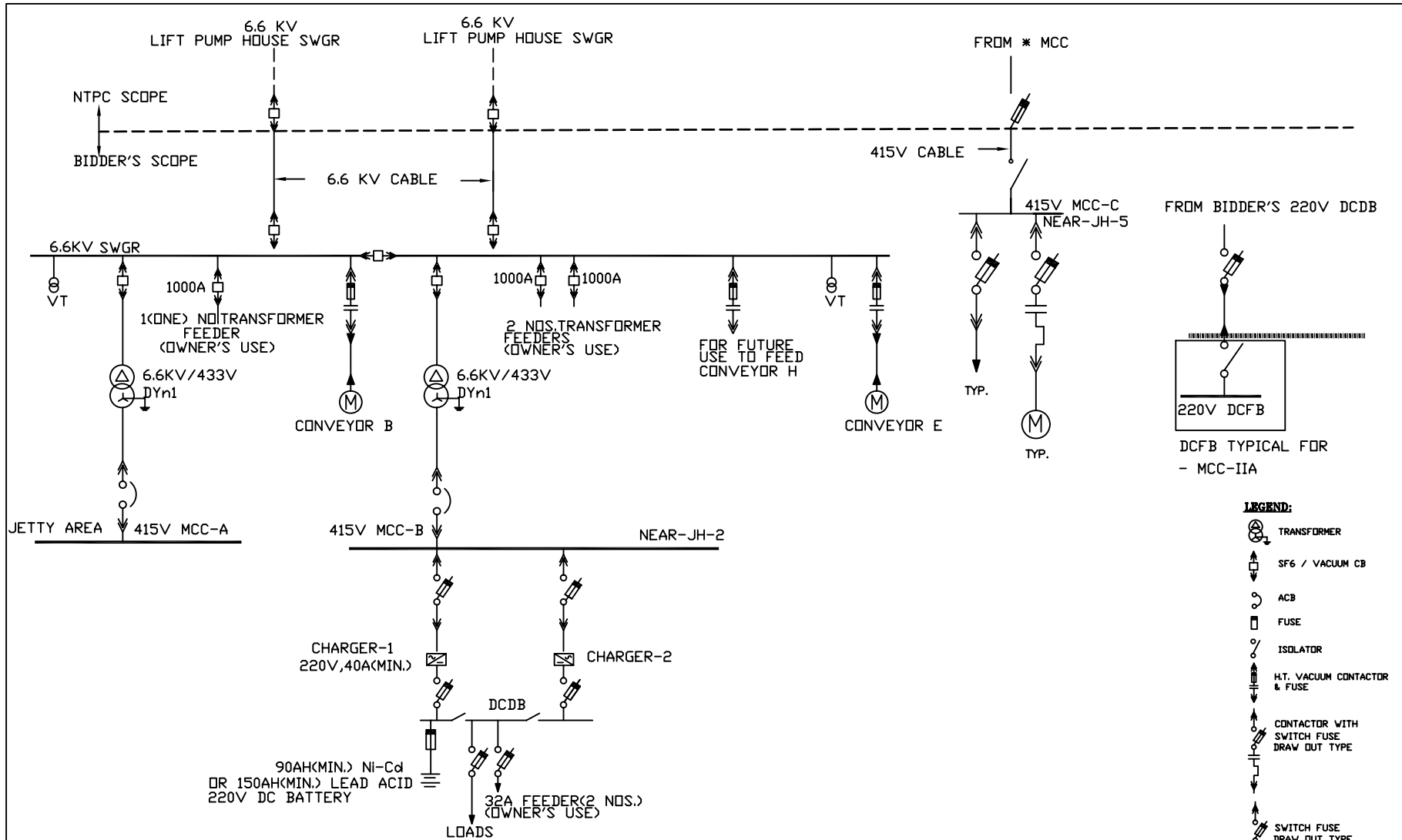
**NOTES :**

- ALL NECESSARY PIPING, VALVES, FITTINGS AND ACCESSORIES FOR THE COMPLETE SERVICE WATER, POTABLE WATER AND DUST SUPPRESSION SYSTEM BEYOND THE TERMINAL POINTS ARE INCLUDED IN THE SCOPE OF CHP BIDDER.
- THE CAPACITY AND HEAD OF PUMPS AND PIPE SIZING FOR COMPLETE DUST SUPPRESSION, SERVICE WATER AND POTABLE WATER SYSTEM SHALL BE SUBJECT TO EMPLOYER'S APPROVAL DURING DETAIL ENGINEERING.
- CANOPY SHALL BE PROVIDED FOR OUTDOOR MOTORS.
- BIDDER SHALL PROVIDE DRAIN CONNECTION WITH ISOLATION VALVE & OVERFLOW THE SAME SHALL BE CONNECTED TO NEAREST DRAIN OF EMPLOYER FOR ALL WATER TANKS.
- TANK SHALL BE COMPLETELY ENCLOSED AND PROVIDED WITH MAN HOLE AND ACCESS LADDER (EXTERNAL & INTERNAL). SIZE OF TANK AS INDICATED IS MINIMUM. IN CASE BIGGER CAPACITY TANK IS REQUIRED AS PER SYSTEM REQUIREMENT, THE SAME SHALL BE PROVIDED BY BIDDER. ALL AREA AROUND TANK SHALL BE PAVED WITH CONCRETE & SHALL HAVE PROPER DRAINS. ALL DRAINS SHALL BE CONNECTED TO CHP DRAIN.
- INSTRUMENTATION REQUIRED FOR VARIOUS SYSTEMS IS NOT SHOWN FOR CLARITY AND THE SAME SHALL BE PROVIDED AS PER SPECIFICATION/SYSTEM REQUIREMENT. ALL INSTRUMENTS SHALL BE PROVIDED WITH ISOLATING VALVES.
- WATER SYSTEM SCHEME AS SHOWN IS INDICATIVE ONLY. ADDITIONAL PRESSURE GAUGES, PRESSURE SWITCHES, FLOW SWITCHES, SOLENOID VALVES (FOR INTERLOCKING) UNDER BELT SWITCHES, VALVES/TANKS/PUMPS, NOZZLE FOR DFDS SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR AS PER SYSTEM REQUIREMENT. IN CASE, ANY ADDITIONAL WATER PUMP REQUIRED TO BE PROVIDED, CONTRACTOR SHALL PROVIDE 2x100% WATER PUMPS (1 WORKING + 1 STANDBY). IT SHOULD ALSO BE POSSIBLE TO ISOLATE EVERY BUILDING AND GALLERY IN THE PIPING NETWORK FOR DS/SW/DW/CW/PW SYSTEM.
- DUST SUPPRESSION/SERVICE WATER/POTABLE WATER TAPPING SHALL BE PROVIDED AS PER TECH. SPEC.
- REQUIRED NO. OF VENTS AT HIGHEST POINTS & DRAINS AT LOWEST POINTS SHALL BE PROVIDED FOR TANKS.
- ALL PUMPS SHALL BE PROVIDED WITH SUCTION & DISCHARGE PRESSURE GAUGES AND STRAINERS.
- THE DRG. SHALL BE READ IN CONJUNCTION WITH OTHER TENDER DRGS.
- EACH WATER TANK SHALL BE PROVIDED WITH 3 NO. LEVEL SWITCHES ONE FOR LOW, ONE FOR HIGH & ONE FOR HIGH-HIGH CONDITIONS.
- SPACING OF SERVICE WATER CONNECTION SHALL BE AT 50M INTERVAL FOR CONV. TUNNEL & GALLERY AND MINIMUM ONE NO. TAPPING SHALL BE PROVIDED FOR EACH FLOOR OF JP'S & ONE NO. TAPPING FOR ALL MCC ROOMS, TOILETS, CONTROL ROOM ETC.
- PROTECTION FOR BURRIED PIPE WORK SHALL BE PROVIDED AS PER SPECIFICATION WHERE EVER APPLICABLE.
- EACH SPRAY HEADER SHALL HAVE A PROVISION OF INSTALLING PRESSURE GAUGE.
- ALL SOLENOID VALVES SHALL BE PROVIDED IN A BOX WITH MIN. IP-55 PROTECTION AND MOUNTED ON THE NEAREST WALL.
- FLEXIBLE HOSE :  
 i) 32NB SIZE HOSE SHALL BE PROVIDED TO CONFORM TO RELEVANT IS. EACH HOSE SHALL BE MINIMUM 25M LONG.  
 ii) HOSES SHALL BE SUPPLIED IN HOSE REELS. ONE NO. HOSE REEL WITH HOSE SHALL BE PROVIDED IN EACH JH.
- DRINKING WATER SHALL BE PUMPED TO THE OVERHEAD TANK PROVIDED ON EACH BUILDING ONCE OR TWICE A DAY AS PER REQUIREMENT. OVERHEAD DRINKING WATER TANK SHALL BE OF PVC AND MINIMUM 250 LTS. CAPACITY. PROPER ARRANGEMENT FOR DRAIN SHALL BE PROVIDED FOR THE OVERHEAD (OH) TANK. THE OVERHEAD SHALL BE LOCATED ON PEDESTAL AT APPROX. 1M ABOVE THE FFL OF THE TOPMOST FLOOR OF THE BUILDING.
- ALL TOILET SHALL BE PROVIDED WITH 250 LTR. PVC OVERHEAD TANK FOR STORAGE OF SERVICE WATER.
- 30 MINUTES (1/2 HR.) STORAGE CAPACITY FOR EACH TANK SHALL BE PROVIDED.

**FOR TENDER PURPOSE ONLY**

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PROJECT <b>FARAKKA SUPER THERMAL POWER PROJECT</b>			
TITLE <b>COAL CONVEYING PLANT PACKAGE</b>			
TITLE <b>SINGLE LINE DIAGRAM FOR DS, SW, CW AND POTABLE WATER SYSTEM</b>			
SIZE	SCALE	DRG.NO.	REV.
A1	--	<b>4140-999-POM-A-003</b>	A

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**LEGEND:**

- TRANSFORMER
- SF6 / VACUUM CB
- ACB
- FUSE
- ISOLATOR
- H.T. VACUUM CONTACTOR & FUSE
- CONTACTOR WITH SWITCH FUSE DRAW OUT TYPE
- SWITCH FUSE DRAW OUT TYPE
- MOTOR

**NOTES I-**

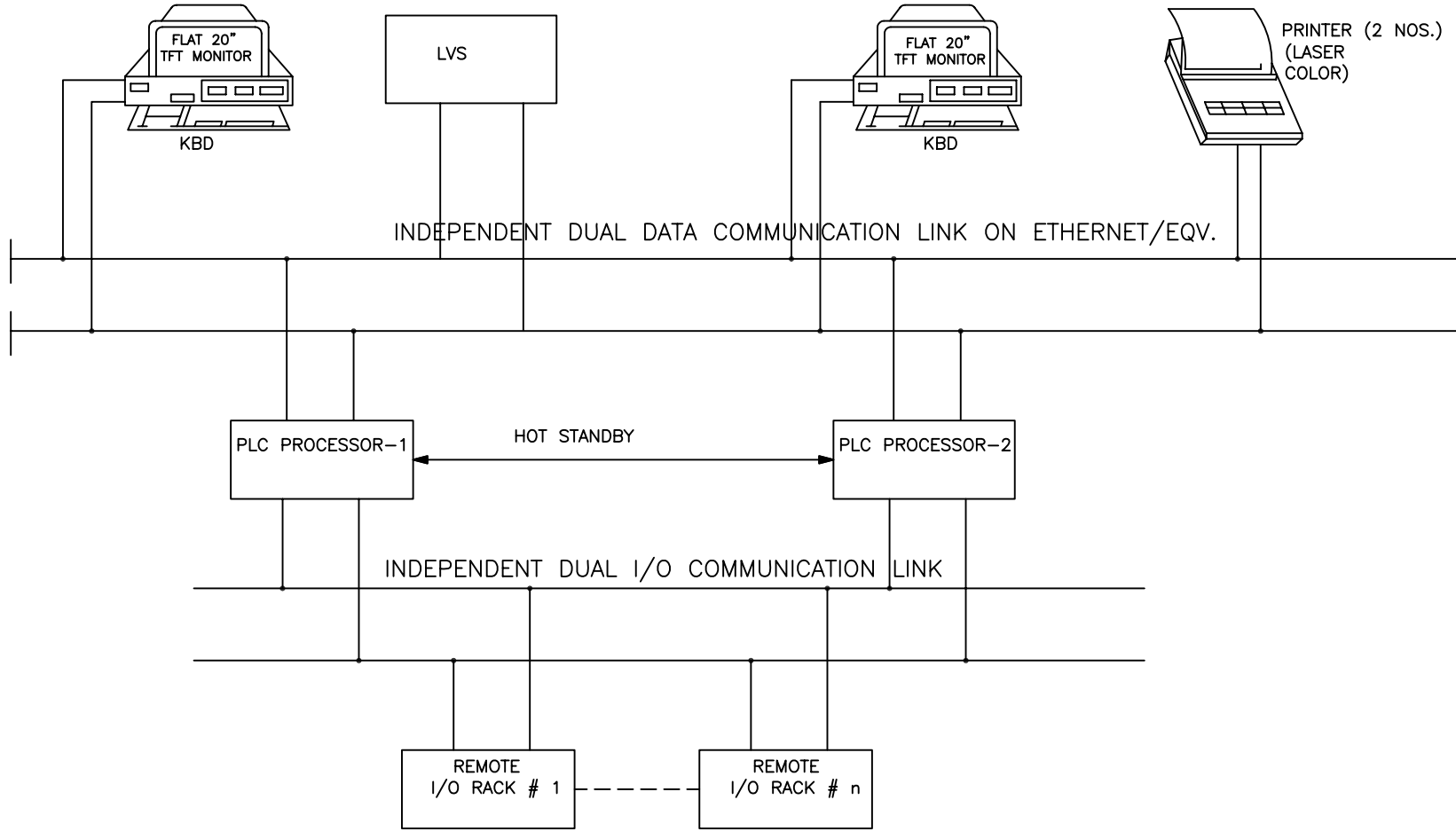
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SPECIFICATION.
  2. THE NOS. & TYPE OF FEEDERS ARE ONLY INDICATIVE, THE SAME SHALL BE PROVIDED AS PER SYSTEM REQUIREMENT.
  3. ONE (1) NO. ACFB DCFB SHALL BE PROVIDED IN EACH SWITCHGEAR ROOM UNDER BIDDER'S SCOPE.
  4. 2 NOS. 125A SFU FEEDERS (TOTAL LOAD 50KVA) FOR EMPLOYER'S USE SHALL BE PROVIDED FROM EACH SWITCHGEAR UNDER BIDDE'S SCOPE.
- \* THE '\*' MARKED FEEDER SHALL BE IDENTIFIED BY FSTPP SITE.

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PROJECT		<b>FARAKKA S.T.P.P.</b> (3x200MW+2x500MW)	
TITLE		<b>ELECTRICAL SINGLE LINE DIAGRAM-COAL CONVEYING PLANT PACKAGE</b>	
DESCRIPTION	DRAWN	DESIGN	CHKD
			APPD
			DATE
SIZE	SCALE	DRAWING NO.	REV. NO.
		<b>4140-999-POE-A-001</b>	<b>0</b>

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OPERATING & PROGRAMMING  
PC BASED WORK STATION#1


OPERATING & PROGRAMMING  
PC BASED WORK STATION#2



PRINTER (2 NOS.)  
(LASER  
COLOR)

**NOTES:**

1. PLC PROCESSORS-1&2 SHALL BE IN HARDWARE AS WELL AS SOFTWARE BASED REDUNDANCY CONFIGURATION.
2. NUMBERS AND LOCATIONS OF REMOTE I/O RACKS SHALL BE DECIDED DURING DETAILED ENGINEERING.

 नेशनल थर्मल पावर कॉर्पोरेशन लिमिटेड <b>NTPC</b> National Thermal Power Corporation Ltd. (A GOVERNMENT OF INDIA ENTERPRISE) ENGINEERING DIVISION	
PROJECT <b>FARAKKA S.T.P.P.</b> (3x200MW+2x500MW)	
TITLE <b>ELECTRICAL SINGLE LINE DIAGRAM-COAL CONVEYING PLANT PACKAGE</b>	
DESCRIPTION	DRAWN DESIGNED CHECKED APPROVED DATE SIZE SCALE DRAWING NO. <b>4140-999-POE-A-001</b> REV. NO. <b>0</b>