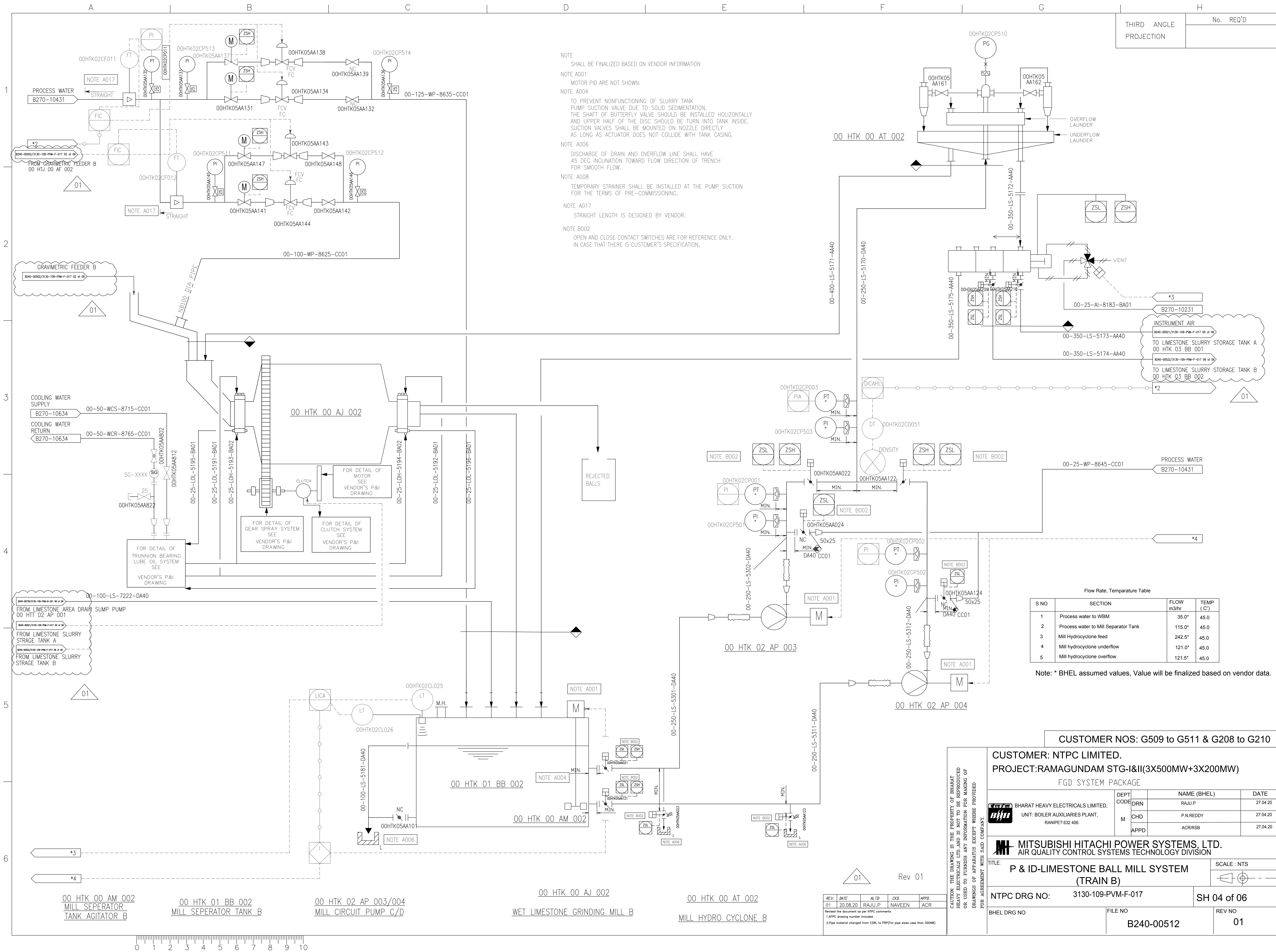




NOTE  
SHALL BE FINALIZED BASED ON VENDOR INFORMATION

NOTE A001  
MOTOR PID ARE NOT SHOWN.

NOTE A004  
TO PREVENT NONFUNCTIONING OF SLURRY TANK PUMP SUCTION VALVE DUE TO SOLID SEDIMENTATION, THE SHAFT OF BUTTERFLY VALVE SHOULD BE INSTALLED HORIZONTALLY AND UPPER HALF OF THE DISC SHOULD BE TURN INTO TANK INSIDE. SUCTION VALVES SHALL BE MOUNTED ON NOZZLE DIRECTLY AS LONG AS ACTUATOR DOES NOT COLLIDE WITH TANK CASING.

NOTE A006  
DISCHARGE OF DRAIN AND OVERFLOW LINE SHALL HAVE 45 DEG INCLINATION TOWARD FLOW DIRECTION OF TRENCH FOR SMOOTH FLOW.

NOTE A008  
TEMPORARY STRAINER SHALL BE INSTALLED AT THE PUMP SUCTION FOR THE TERMS OF PRE-COMMISSIONING.

NOTE A017  
STRAIGHT LENGTH IS DESIGNED BY VENDOR.

NOTE B002  
OPEN AND CLOSE CONTACT SWITCHES ARE FOR REFERENCE ONLY. IN CASE THAT THERE IS CUSTOMER'S SPECIFICATION,

| Flow Rate, Temperature Table |                                      |            |           |
|------------------------------|--------------------------------------|------------|-----------|
| S NO                         | SECTION                              | FLOW m3/hr | TEMP (°C) |
| 1                            | Process water to WBM                 | 35.0*      | 45.0      |
| 2                            | Process water to Mill Separator Tank | 115.0*     | 45.0      |
| 3                            | Mill Hydrocyclone feed               | 242.5*     | 45.0      |
| 4                            | Mill hydrocyclone underflow          | 121.0*     | 45.0      |
| 5                            | Mill hydrocyclone overflow           | 121.5*     | 45.0      |

Note: \* BHEL assumed values, Value will be finalized based on vendor data.

CUSTOMER NOS: G509 to G511 & G208 to G210

CUSTOMER: NTPC LIMITED.  
PROJECT:RAMAGUNDAM STG-I&II(3X500MW+3X200MW)

FGD SYSTEM PACKAGE

| DEPT CODE | NAME (BHEL) | DATE     |
|-----------|-------------|----------|
| DRN       | RAJU.P      | 27.04.20 |
| CHD       | P.N.REDDY   | 27.04.20 |
| APPD      | ACR/RSB     | 27.04.20 |

**MITSUBISHI HITACHI POWER SYSTEMS, LTD.**  
AIR QUALITY CONTROL SYSTEMS TECHNOLOGY DIVISION

TITLE: **P & ID-LIMESTONE BALL MILL SYSTEM (TRAIN B)**

NTPC DRG NO: 3130-109-PVM-F-017

BHEL DRG NO: FILE NO: B240-00512

REV NO: 01

| REV. | DATE     | ALT.   | CHK.   | APP. |
|------|----------|--------|--------|------|
| 01   | 20.08.20 | RAJU.P | NAVEEN | ACR  |

Revised the document as per NTPC comments  
1.NTPC drawing number included.  
2.Pipe material changed from CSRL to FRPP(For pipe sizes Less than 300MM)

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A3

DRAWING No.