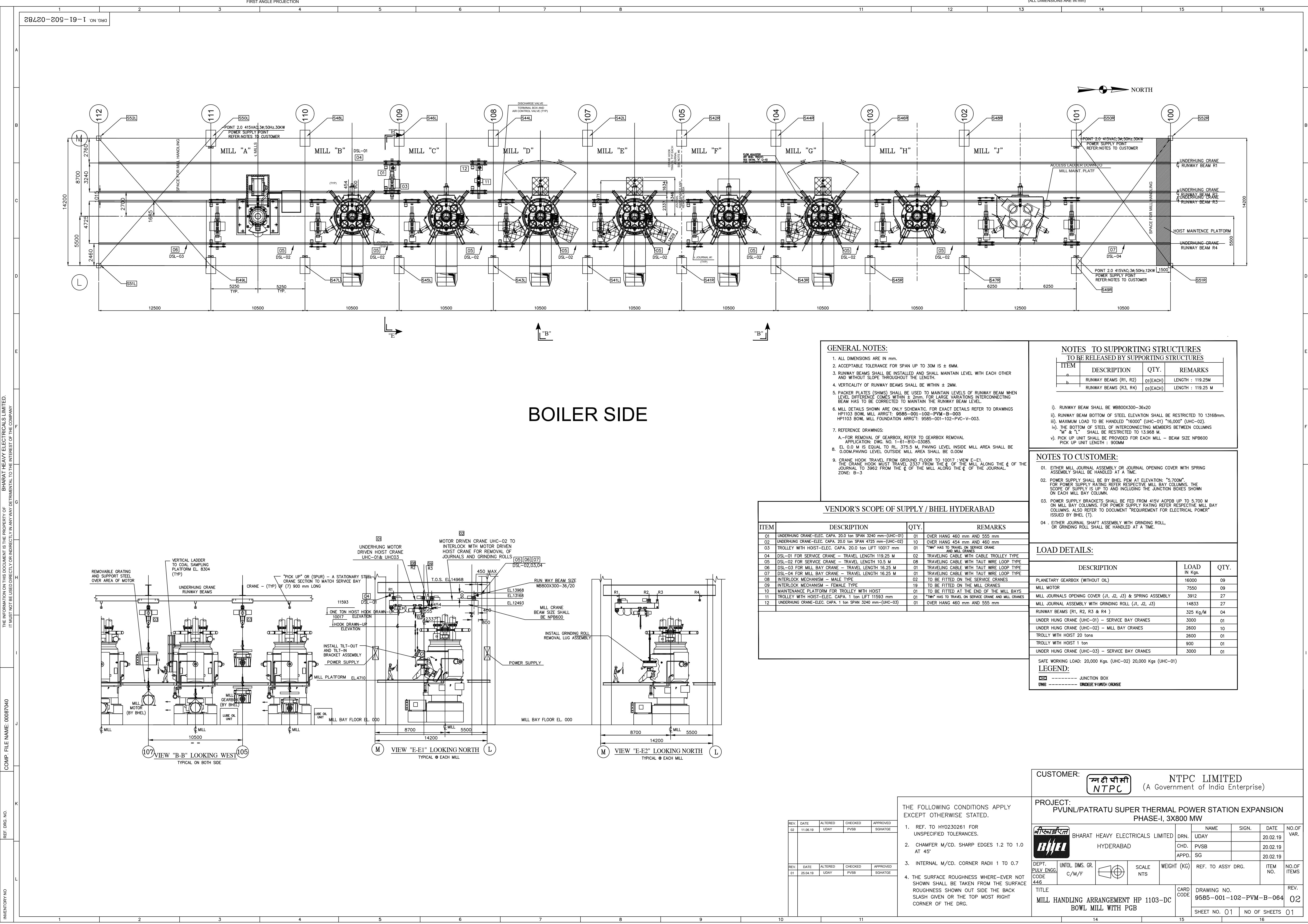




BOILER SIDE

GENERAL NOTES:

- 1. ALL DIMENSIONS ARE IN mm.
- 2. ACCEPTABLE TOLERANCE FOR SPAN UP TO 30M IS ± 6MM.
- 3. RUNWAY BEAMS SHALL BE INSTALLED AND SHALL MAINTAIN LEVEL WITH EACH OTHER AND WITHOUT SLOPE THROUGHOUT THE LENGTH.
- 4. VERTICALITY OF RUNWAY BEAMS SHALL BE WITHIN ± 2MM.
- 5. PACKER PLATES (SHIMS) SHALL BE USED TO MAINTAIN LEVELS OF RUNWAY BEAM WHEN LEVEL DIFFERENCE COMES WITHIN ± 2mm. FOR LARGE VARIATIONS INTERCONNECTING BEAM HAS TO BE CORRECTED TO MAINTAIN THE RUNWAY BEAM LEVEL.
- 6. MILL DETAILS SHOWN ARE ONLY SCHEMATIC. FOR EXACT DETAILS REFER TO DRAWINGS HP1103 BOWL MILL ARRGT: 9585-001-102-PVM-B-003
- 7. REFERENCE DRAWINGS:
 - A.-FOR REMOVAL OF GEARBOX, REFER TO GEARBOX REMOVAL APPLICATION: DWG. NO. 1-61-810-03085.
 - EL. 0.0 M IS EQUAL TO RL. 375.5 M. PAWING LEVEL INSIDE MILL AREA SHALL BE 0.00M. PAWING LEVEL OUTSIDE MILL AREA SHALL BE 0.00M.
- 8. CRANE HOOK TRAVEL FROM GROUND FLOOR TO 10017 :VIEW E-E1. THE CRANE HOOK MUST TRAVEL 2337 FROM THE 6 OF THE MILL ALONG THE 6 OF THE JOURNAL TO 3962 FROM THE 6 OF THE MILL ALONG THE 6 OF THE JOURNAL. ZONE: B-3

NOTES TO SUPPORTING STRUCTURES TO BE RELEASED BY SUPPORTING STRUCTURES

ITEM	DESCRIPTION	QTY.	REMARKS
a	RUNWAY BEAMS (R1, R2)	01(EACH)	LENGTH : 119.25M
b	RUNWAY BEAMS (R3, R4)	01(EACH)	LENGTH : 119.25 M

- i). RUNWAY BEAM SHALL BE WB800X300-36x20
- ii). RUNWAY BEAM BOTTOM OF STEEL ELEVATION SHALL BE RESTRICTED TO 13168mm.
- iii). MAXIMUM LOAD TO BE HANDLED "16000" (UHC-01) "16,000" (UHC-02).
- iv). THE BOTTOM OF STEEL OF INTERCONNECTING MEMBERS BETWEEN COLUMNS "M" & "L" SHALL BE RESTRICTED TO 13368 M.
- v). PICK UP UNIT SHALL BE PROVIDED FOR EACH MILL - BEAM SIZE NPB600 PICK UP UNIT LENGTH : 900MM

NOTES TO CUSTOMER:

- 01. EITHER MILL JOURNAL ASSEMBLY OR JOURNAL OPENING COVER WITH SPRING ASSEMBLY SHALL BE HANDLED AT A TIME.
- 02. POWER SUPPLY SHALL BE BY BHEL PEM AT ELEVATION: "5,700MM". FOR POWER SUPPLY RATING REFER RESPECTIVE MILL BAY COLUMNS. THE SCOPE OF SUPPLY IS UP TO AND INCLUDING THE JUNCTION BOXES SHOWN ON EACH MILL BAY COLUMN.
- 03. POWER SUPPLY BRACKETS SHALL BE FED FROM 415V ACBDB UP TO 5,700 M ON MILL BAY COLUMNS. FOR POWER SUPPLY RATING REFER RESPECTIVE MILL BAY COLUMNS. ALSO REFER TO DOCUMENT "REQUIREMENT FOR ELECTRICAL POWER" ISSUED BY BHEL (T).
- 04. EITHER JOURNAL SHAFT ASSEMBLY WITH GRINDING ROLL OR GRINDING ROLL SHALL BE HANDLED AT A TIME.

LOAD DETAILS:

DESCRIPTION	LOAD IN Kgs.	QTY.
PLANETARY GEARBOX (WITHOUT OIL)	16000	09
MILL MOTOR	7550	09
MILL JOURNALS OPENING COVER (J1, J2, J3) & SPRING ASSEMBLY	3912	27
MILL JOURNAL ASSEMBLY WITH GRINDING ROLL (J1, J2, J3)	14833	27
RUNWAY BEAMS (R1, R2, R3 & R4)	325 kg/M	04
UNDER HUNG CRANE (UHC-01) - SERVICE BAY CRANES	3000	01
UNDER HUNG CRANE (UHC-02) - MILL BAY CRANES	2600	10
TROLLEY WITH HOIST 20 tons	2600	01
TROLLEY WITH HOIST 1 ton	900	01
UNDER HUNG CRANE (UHC-03) - SERVICE BAY CRANES	3000	01

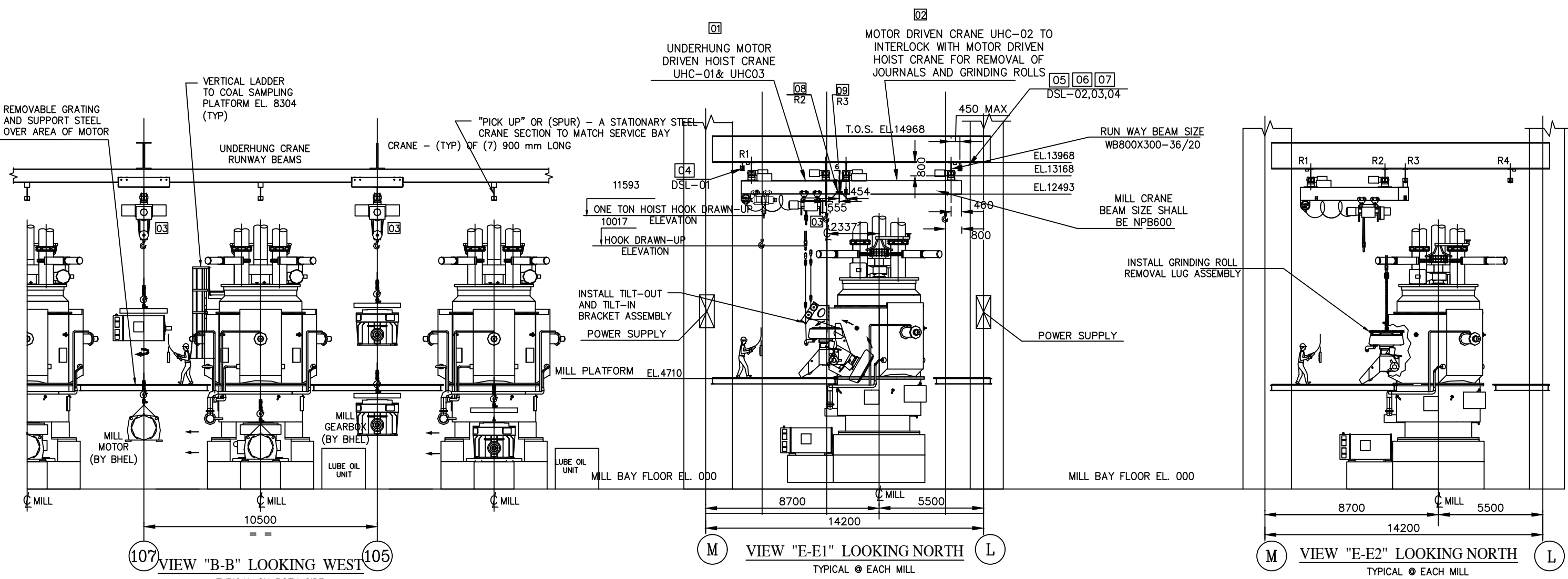
SAFE WORKING LOAD: 20,000 Kgs. (UHC-02) 20,000 Kgs (UHC-01)

LEGEND:

----- JUNCTION BOX
----- UNDER HUNG CRANE

VENDOR'S SCOPE OF SUPPLY / BHEL HYDERABAD

ITEM	DESCRIPTION	QTY.	REMARKS
01	UNDERHUNG CRANE-ELEC. CAPA: 20.0 ton SPAN 3240 mm-(UHC-01)	01	OVER HANG 460 mm AND 555 mm
02	UNDERHUNG CRANE-ELEC. CAPA: 20.0 ton SPAN 4728 mm-(UHC-02)	10	OVER HANG 454 mm AND 460 mm
03	TROLLEY WITH HOIST-ELEC. CAPA: 20.0 ton LIFT 10017 mm	01	"THM" HAS TO TRAVEL ON SERVICE CRANE AND MILL CRANES
04	DSL-01 FOR SERVICE CRANE - TRAVEL LENGTH 119.25 M	02	TRAVELING CABLE WITH CABLE TROLLEY TYPE
05	DSL-02 FOR SERVICE CRANE - TRAVEL LENGTH 10.5 M	08	TRAVELING CABLE WITH TAUT WIRE LOOP TYPE
06	DSL-03 FOR MILL BAY CRANE - TRAVEL LENGTH 16.25 M	01	TRAVELING CABLE WITH TAUT WIRE LOOP TYPE
07	DSL-04 FOR MILL BAY CRANE - TRAVEL LENGTH 16.25 M	01	TRAVELING CABLE WITH TAUT WIRE LOOP TYPE
08	INTERLOCK MECHANISM - MALE TYPE	02	TO BE FITTED ON THE SERVICE CRANES
09	INTERLOCK MECHANISM - FEMALE TYPE	19	TO BE FITTED ON THE MILL CRANES
10	MAINTENANCE PLATFORM FOR TROLLEY WITH HOIST	01	TO BE FITTED AT THE END OF THE MILL BAYS
11	TROLLEY WITH HOIST-ELEC. CAPA. 1 ton LIFT 11593 mm	01	"THM" HAS TO TRAVEL ON SERVICE CRANE AND MILL CRANES
12	UNDERHUNG CRANE-ELEC. CAPA. 1 ton SPAN 3240 mm-(UHC-03)	01	OVER HANG 460 mm AND 555 mm



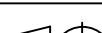
THE FOLLOWING CONDITIONS APPLY EXCEPT OTHERWISE STATED.

- 1. REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.
- 2. CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°
- 3. INTERNAL M/CD. CORNER RADII 1 TO 0.7
- 4. THE SURFACE ROUGHNESS WHERE-EVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE THE BACK SLASH GIVEN OR THE TOP MOST RIGHT CORNER OF THE DRG.

REV	DATE	ALTERED	CHECKED	APPROVED
02	11.06.19	UDAY	PVSB	SGHATGE
01	25.04.19	UDAY	PVSB	SGHATGE

CUSTOMER: **NTPC LIMITED**
(A Government of India Enterprise)

PROJECT: **PVUNL/PATRATU SUPER THERMAL POWER STATION EXPANSION PHASE-I, 3X800 MW**

भारत भारती BHEL				BHARAT HEAVY ELECTRICALS LIMITED HYDERABAD		DRN.	NAME	SIGN.	DATE	NO. OF VAR.
				CHD.	PVSB			20.02.19		
				APPD.	SG			20.02.19		
DEPT. FULLY ENGG. CODE 446	UNTOOL DMS. GR. C/M/F		SCALE NTS	WEIGHT (KG)	REF. TO ASSY DRG.			ITEM NO.	NO. OF ITEMS	
TITLE MILL HANDLING ARRANGEMENT HP 1103-DC BOWL MILL WITH PGB					CARD CODE	DRAWING NO. 9585-001-102-PVM-B-064			REV. 02	
SHEET NO. 01						NO OF SHEETS			01	