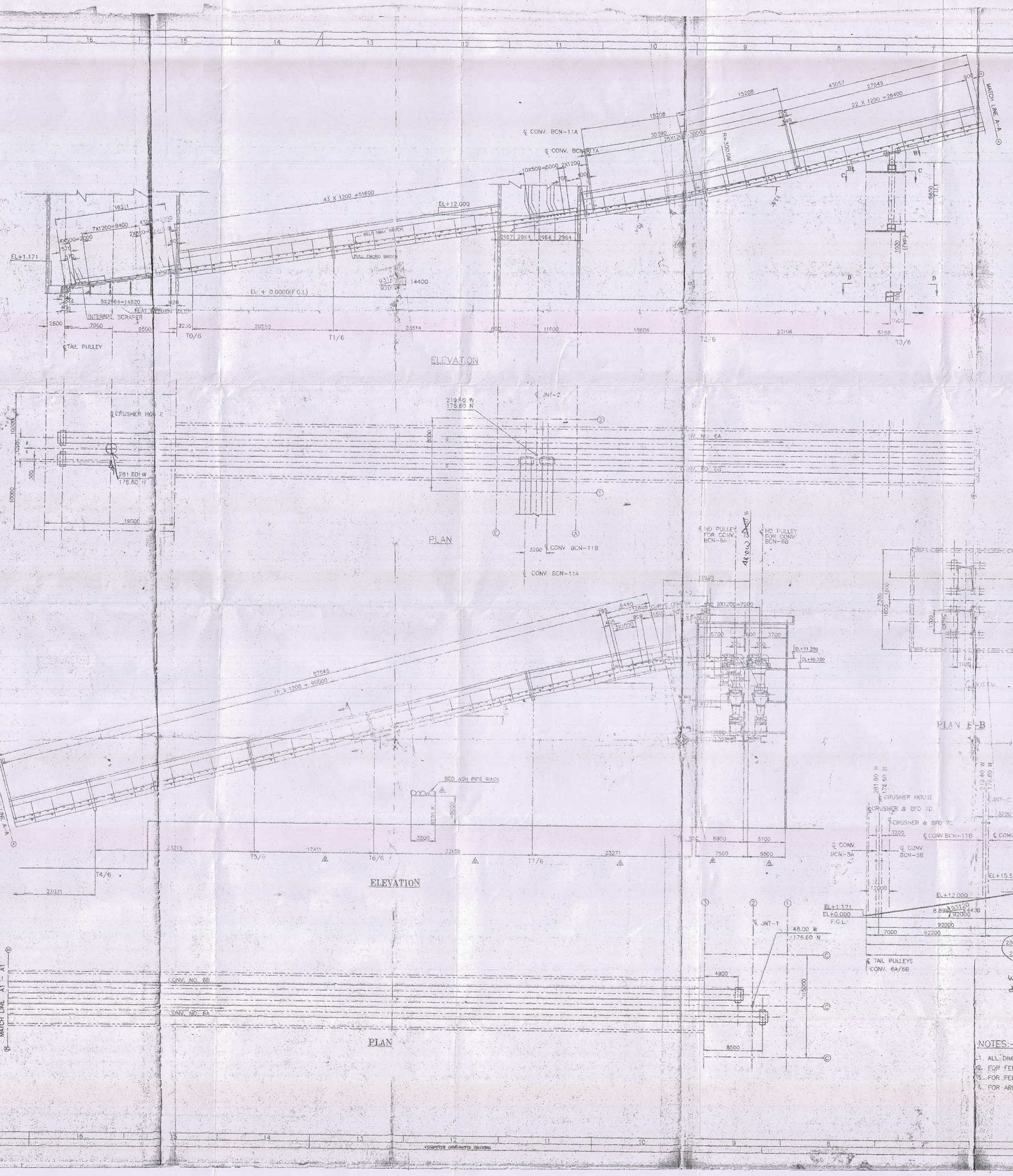


| 1 | MATERIAL | | | |
|---|---|---|---|---|
| | DESCRIPTION | | DATA | QTY |
| | MATERIAL | | LIGNITE | |
| | BULK DENSITY (FOR CONV.CAPACITY) | T/M | 0.8 | |
| | MAXIMUM MOISTURE | % | | |
| | ANGLE OF REPOSE/SURCHARGE | | 35°/15° | |
| | LUMP SIZE | MM | (-)10 | |

| 2 | CONVEYOR | | | |
|---|---|---|---|---|
| | CONVEYOR NO | | 6A/6B | 6A/6B |
| | BELT WIDTH | MM | 1400 | |
| | BELT LENGTH | M | 513/521 | |
| | PULLEY CENTER(HORIZONTAL) | M | 238.5/242.1 | |
| | BELT LIFT | M | 50.097 | |
| | CAPACITY (RATED) | TPH | 1200 | |
| | CAPACITY (DESIGN) | TPH | 1500 | |
| | BELT SPEED | M/SEC | 2.8 | |
| | WRAP ANGLE AT DRIVE PULLEY | | 200° | |

| 3 | BELTING | | |
|---|---|---|---|
| | BELT SPECIFICATION | | 1600/5 (X) |
| | BELT TYPE | | N/N |
| | NO.OF PLIES | | 5 |
| | COVER THICKNESS TOP/BOTTOM | MM | 5/3 |
| | COVER GRADE | | FIRE RESISTANT |
| | MAX.ALLOWABLE TENSION | N | 180000 |
| | MAX.WORKING TENSION @ DRIVE PULLEY | N | 153883 (X) |
| | SLACK SIDE TENSION @ DRIVE PULLEY | N | 56246 |

| 4 | IDLERS | | | |
|---|---|---|---|---|
| | TROUGHING | 139.7X35° | AT 1.2M SPACING | 6B/6A |
| | S.A.TROUGHING | 139.7X35° | AT 2.4M SPACING | 10/10 |
| | IMPACT TROUGHING | 190.6X35 | AT 0.6M SPACING | 21/21 |
| | TRANSITION TROUGHING | 139.7ø×10° | NEAR HEAD END | 1/1 |
| | TRANSITION TROUGHING | 139.7ø×20° | | 1/1 |
| | IMPACT TRANSITION | | | |
| | RETURN | ø139.7 ø X 0° | NEAR TAIL END | 1/1 |
| | RETURN V TYPE (2 ROLL) | ø139.7 ø X 10° | AT 3M SPACING | 70/72 |
| | S.A.RETURN (2 ROLL) | ø139.7 ø X 10° | AT 3M SPACING | 10/10 |
| | INVERTED V | | | |
| | PRESSURE ROLLER | | | |

| 5 | PULLEYS | | | | | |
|---|---|---|---|---|---|---|
| | | | DIA 6A | DIA 6B | DIA | |
| | DRIVE | MM | 1000 | 200 | 220 | |
| | SNUB | MM | 800 | 140 | 140 | |
| | BEND | MM | 800 | 140 | 140 | |
| | TAKE-UP | MM | 800 | 140 | 140 | |
| | TAIL | MM | 800 | 140 | 140 | |
| | HOLDING DOWN | | | | | |
| | LAGGING THICKNESS DRIVE | MM | 12 | | | |
| | SNUB | MM | 10 | | | |
| | TAIL | MM | 10 | | | |

| 6 | DRIVE | | |
|---|---|---|---|
| | MOTOR MAKE | | BHT |
| | TYPE | | |
| | RATING/SPEED | KW/RPM | 300/1485 (X) |
| | POWER SUPPLY | | (X) Hold until approval of conveyor calculation |
| | GEAR BOX MAKE | | |
| | TYPE | | |
| | SIZE/RATIO | | |
| | HOLD BACK TYPE/RATING IN NM | | YES |
| | COUPLING HIGH SPEED MAKE | | |
| | COUPLING HIGH SPEED TYPE | | SCOOP |
| | COUPLING HIGH SPEED SIZE/MODEL | | |
| | COUPLING LOW SPEED MAKE | | |
| | COUPLING LOW SPEED TYPE | | RESILIENT |
| | COUPLING LOW SPEED SIZE/MODEL | | |
| | MAKE | | |

| 7 | CONVEYOR ACCESSORIES | | | |
|---|---|---|---|---|
| | DECK PLATE THICKNESS | MM | 3/FULL LENGTH | |
| | TAKE-UP TYPE/TAKE-UP & MATL KG | | V.G.T.U. | |
| | SCRAPERS INTERNAL | | PLOUGH TYPE | |
| | SCRAPERS EXTERNAL | | HOSCH TYPE-2NOS | |
| | PULL CHORD SWITCH(pairs) | | AT 30M SPACING | 6/8 |
| | BELT SWAY SWITCH(pairs) | | AT 50M SPACING | 4/4 |
| | ZERO SPEED SWITCH(nos) | | AT TAIL END | 1/1 |

NOTES:–

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES.
2. FOR FEEDING ARRGT TAIL END REF.DRG.NO.–M043G030000001.
3. FOR FEEDING ARRGT AT JNT–2 REF.DRG.NO.–M043H020000001–0 .
4. FOR ARRGT OF HEAD END REF DRG NO. M043H010000001–0.

Why are these dimensions revised...

KEY ELEVATION

GUJARAT INDUSTRIES POWER CO. LTD.
SURAT LIGNITE POWER PROJECT
2 X 125 MW UNITS NO. 1 & 2

CONSULTANTS: TATA CONSULTING ENGINEERS, BANGALORE

TCE DRG. NO.: TCE-2777-563-IL-KIL-97-R7 24 MAR 1997

| Surface finish as per IS: 10719 | Castings as per | Welded Construction (welded) Components as per | Optional Tolerances for ... for holes ... for unspecified ... for shafts ... for angular | Index | Description | Date | Name |
|---|---|---|---|---|---|---|---|
| | | | | C | | | |
| | | | | B | REVISED AS NOTED ABOVE | 7/5/97 | R S M |
| | | | | A | REVISED AS COMMENTED BY TCE | 28/11/96 | A S M |

Scale 1:200

| | Date | Name |
|---|---|---|
| Drawn | 25/9/96 | KBN |
| Checked | 25/9/96 | SEW |
| Approved | 25/9/96 | S CHANDER |

Critical dimensions

KRUPP INDUSTRIES INDIA
Pimpri, Pune – 411 018

Title: GENERAL ARRANGEMENT OF CONVEYOR 6A/6B

M043C060000001–0

Q M B

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Sheet No. | Total Sheets | AO

COMPUTER GENERATED DRAWING