

TECHNICAL CHECKLIST

(To be submitted in bidder's letter head with authorized signature)

Sl.No	Material Code	Qty	UOM	Material Long text	Bidder's acceptance to material description [yes/no]	If "no" deviation to material long text to be provided below
1	21805094490	8	EA	<p>TECHNICAL SPECIFICATION :</p> <p>DUPLEX SPROCKET FOR INGOT GUIDE OF ICM PITCH = 1/2 INCH (12.7 MM) BS NO OF TEETH = 30 BOTH SIDE HUBS OF EQUAL LENGTH HUB DIA = 60.5 MM;HUB LENGTH (THROU BORE) = 40 MM WITH PILOT BORE = 20 MM MATERIAL:C-45/EN-8 SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN 300 BHN.</p>		
2	21805103480	20	EA	<p>TECHNICAL SPECIFICATION :</p> <p>DUPLEX SPROCKET FOR 1/2 INCH PITCH BRITISH STANDARD ROLLER CHAIN AS PER DRAWING NO:CH-B/SP/MECH/A4/7175 MATERIAL: AS PER DRAWING SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN.300 BHN</p>		
3	21805130420	8	EA	<p>TECHNICAL SPECIFICATION :</p> <p>TENSION SPROCKET FOR COOLING CONVMOR. AS PER ITEM-4 OF DRAWING NO:CHB/MECH/SPR/A1/7747 SH-2/2 MATERIAL: AS PER DRAWING NOTE: 04 NOS TO BE SUPPLIED WITH FINISHED BORE AS PER THE ABOVE SPECIFICATION AND ANOTHER 04 NOS TO BE SUPPLIED IN PILOT BORE OF 20MM DIA. SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN.300 BHN</p>		
4	21805130590	4	EA	<p>TECHNICAL SPECIFICATION :</p> <p>DE SPROCKET FOR SECONDARY COOLING CONVEYOR. AS PER DRAWING NO:CH-B/MECH/SPR/A3/10729 REV-0 MATERIAL: AS PER DRAWING SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN 300 BHN</p>		
5	21805130660	4	EA	<p>TECHNICAL SPECIFICATION :</p> <p>NDE SPROCKET FOR SECONDARY</p>		

				COOLING CONVEYOR. AS PER ITEM NO-1 OF DRAWING NO:CH-B/MECH/SPR/A2/10602 REV-2 MATERIAL: AS PER DRAWING SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN 300 BHN		
6	21805150550	2	EA	TECHNICAL SPECIFICATION : DRIVE SPROCKET FOR LAYER CONVEYOR AS PER DRAWING NO:CH- B/MECH/SPR/A2/10872 MATERIAL: AS PER DRAWING SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN 300 BHN		
7	21805150620	4	EA	TECHNICAL SPECIFICATION : NON DRIVE SPROCKET FOR LAYER CONVEYOR AS PER DRAWING NO:CH- B/MECH/SPR/A2/10874 MATERIAL: AS PER DRAWING SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN. BHN 300.		
8	21805191450	4	EA	TECHNICAL SPECIFICATION : DUPLEX SPROCKET FOR TURNING DEVICE OF ICM, CH-B. PITCH = 1/2 INCH (12.7 MM) BS NO OF TEETH = 15 WITH ONE SIDE HUB HUB DIA = 50 MM HUB LENGTH (THROU BORE) = 40 MM WITH PILOT BORE DIA = 20 MM MATERIAL:C-45/EN-8 SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN 300 BHN.		
9	21805191520	6	EA	TECHNICAL SPECIFICATION : DUPLEX SPROCKET FOR TD OF ICM PITCH = 1/2 INCH (12.7 MM) BS NO OF TEETH = 17 WITH ONE SIDE HUB HUB DIA = 50 MM HUB LENGTH (THROU BORE) = 40 MM WITH PILOT BORE DIA = 20 MM MATERIAL:C-45/EN-8 SPROCKET TEETH SHOULD BE FLAME HARDENED TO MIN 300 BHN.		

NOTE:

(i). LIST OF APPROVED VENDORS:

1. ROLCON ENGINEERING COMPANY LIMITED
2. RENOLD CHAIN INDIA PVT. LIMITED.
3. SKF INDIA LTD
4. T.I.DIAMOND CHAIN LTD.
5. REXNORD INDIA PVT. LTD.
6. WIPERDRIVE ENGINEERING
7. RUD INDIA CHAIN PVT LTD.
8. GALAXY CHAINS PVT. LTD.

(ii). CONSIDERING STANDARDIZED NATURE OF ITEMS ONLY PROPOSED APPROVED VENDORS OR THEIR AUTHORIZED DEALERS ARE ELIGIBLE TO PARTICIPATE IN THIS BID. OFFERS OF OTHER THAN APPROVED VENDORS WILL NOT BE CONSIDERED FOR THIS TENDER. AUTHORIZED DEALERS SHALL SUBMIT VALID AUTHORIZATION CERTIFICATE FROM OEM/PRINCIPAL WITH DETAIL SEAL, SIGN, CONTACT NO., OFFICE ADDRESS OF PRINCIPAL ALONG WITH OFFER, FAILING WHICH THE OFFER SHALL BE REJECTED.

(iii). MATERIAL TEST CERTIFICATE FROM NABL INDIA/GOVT. APPROVED LAB TO BE SUBMITTED FOR ALL ITEMS ALONG WITH THE SUPPLY OF THE ITEMS.

(iv). THE MATERIALS SHALL CONFORM TO SPECIFICATIONS FOR SATISFACTORY PERFORMANCE UNDER NORMAL CONDITIONS AND CARRY A WARRANTY AGAINST ANY FAULTY-DESIGN, WRONG SPECIFICATION, DEFECTIVE MATERIALS OR BAD WORKMANSHIP FOR A PERIOD OF 12 MONTHS FROM THE DATE OF PUTTING INTO USE OR 18 MONTHS FROM THE DATE OF DISPATCH WHICHEVER IS EARLIER. VENDOR HAS TO SUBMIT WARRANTY CERTIFICATE ALONG WITH THE SUPPLY OF THE ITEMS.

NOTE: IN CASE DISTRIBUTORS/DEALERS ARE PARTICIPATING IN THIS BID, THEY NEED TO SUBMIT VALID OEM DEALERSHIP CERTIFICATE OR OEM AUTHORIZATION LETTER/ CERTIFICATE ALONG WITH THEIR OFFER.

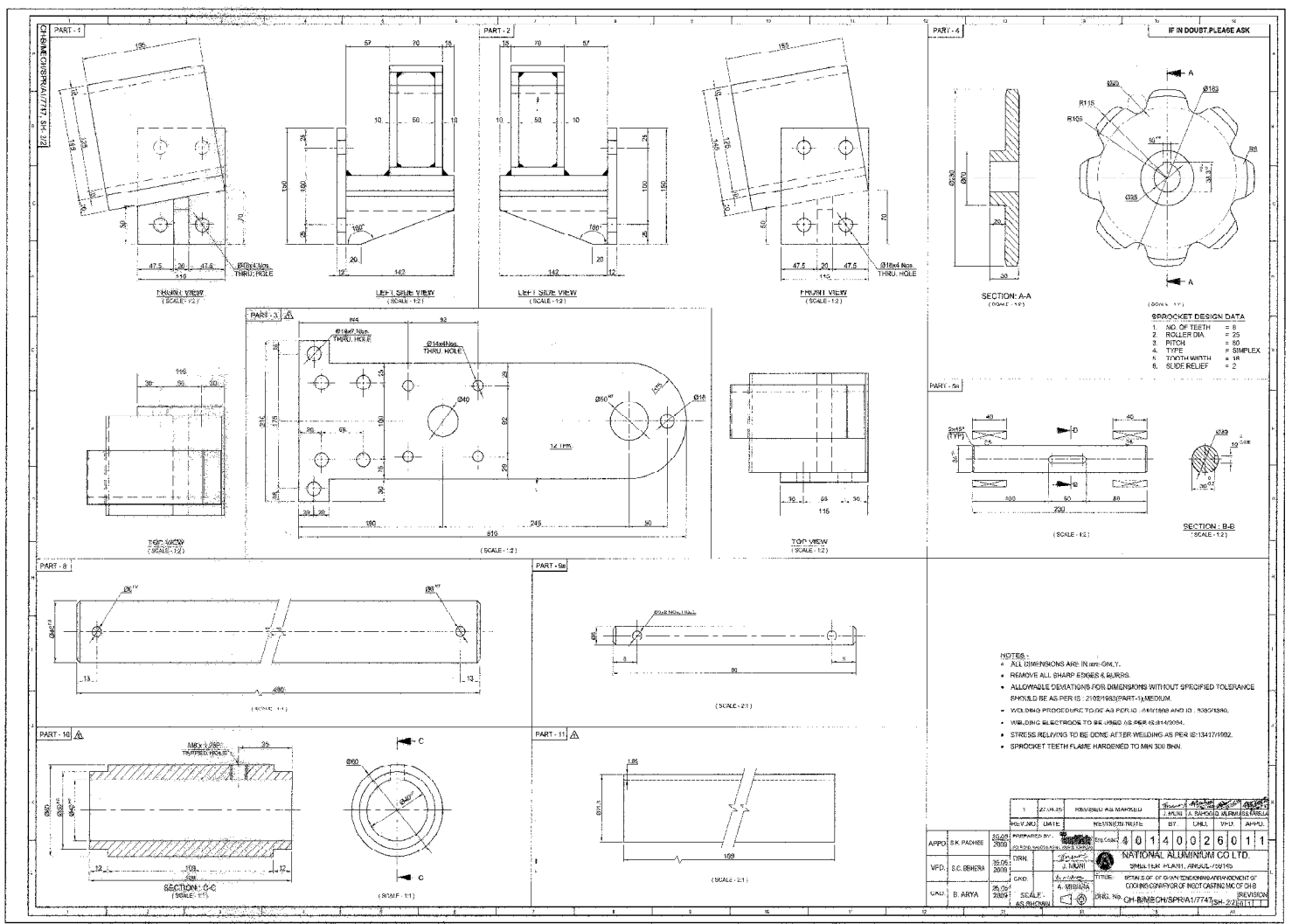
DETAILS OF OEM AUTHORISATION/DEALERSHIP CERTIFICATE ISSUING PERSON/ AUTHORITY MAY BE GIVEN IN FORMAT BELOW:

NAME	
DESIGNATION	
PHONE NO	
EMAIL	

NABL

1	2	3	4																																																
IF IN DOUBT , PLEASE ASK.																																																			
CH-B/SP/MECH/A4/7175	SKF 6002-2RS1(QNTY.-2 Nos)																																																		
<p>SPROCKET DESIGN DATA:- DUPLEX FOR CHAIN No - 8.3 (IS :2403) No OF TEETH-15 PITCH-12.7 ROLLER DIA-8.51 MAX WIDTH BETWEEN INNER PLATES-7.75 MIN</p> <p>SPECIAL NOTE: SPROCKET TO SUIT STANDARD ROLLER CHAIN- DUPLEX(BRITISH STANDARD) PITCH=12.7 MM,(1/2")</p>		<p style="text-align: right;">Section O-O</p>																																																	
<p>MATERIAL:- 30C8 CASE HARDENED</p>		RIGHT 1.6	FRONT																																																
<p>ACCT. <i>[Signature]</i> DATE 25-8-04</p>		<p>NOTE:- ALL DIMENSIONS ARE IN mm ONLY. ALLOWABLE DEVIATIONS FOR DIMENSIONS WITHOUT SPECIFIED TOLERANCES AS PER IS - 2102/1980,FINE.</p>																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 25%; height: 20px;"></td> <td style="width: 25%; height: 20px;"></td> <td style="width: 25%; height: 20px;"></td> <td style="width: 25%; height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> <tr> <td style="text-align: center;">△</td> <td style="text-align: center;">SPECIAL NOTE ADDED.</td> <td style="text-align: center;"><i>[Signature]</i> 22-10-04</td> <td style="text-align: center;"><i>[Signature]</i> 22.01.10</td> </tr> <tr> <td style="text-align: center;">Rev.No.</td> <td style="text-align: center;">Revision Note</td> <td style="text-align: center;">By</td> <td style="text-align: center;">CHKD</td> </tr> <tr> <td style="text-align: center;">DRN.</td> <td style="text-align: center;">DATE 10-8-04</td> <td style="text-align: center;"><i>[Signature]</i> K.B.PRADHAN</td> <td colspan="1" style="text-align: center;">PREPARED BY:- EAST END INFOTECH PVT. LTD. BHUBANESWAR</td> </tr> <tr> <td style="text-align: center;">CHD.</td> <td style="text-align: center;">DATE 12-8-04</td> <td style="text-align: center;"><i>[Signature]</i> K.B.PRADHAN</td> <td colspan="1" style="text-align: center;"> NATIONAL ALUMINIUM CO LTD. SMELTER PLANT, ANGUL - 759 145</td> </tr> <tr> <td style="text-align: center;">APPD.</td> <td style="text-align: center;">DATE 16-8-04</td> <td style="text-align: center;"><i>[Signature]</i> V.SENTHIL</td> <td colspan="1" style="text-align: center;">TITLE : SPROCKET FOR RECEIVING DEVICE</td> </tr> <tr> <td colspan="2" style="text-align: center;">SCALE AS SHOWN</td> <td style="text-align: center;">DRG. No.</td> <td style="text-align: center;">PART No-15</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;"></td> <td style="text-align: center;">CH-B/SP/MECH/A4/ 7175</td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">REVISION</td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: center;">1</td> </tr> </table>																△	SPECIAL NOTE ADDED.	<i>[Signature]</i> 22-10-04	<i>[Signature]</i> 22.01.10	Rev.No.	Revision Note	By	CHKD	DRN.	DATE 10-8-04	<i>[Signature]</i> K.B.PRADHAN	PREPARED BY:- EAST END INFOTECH PVT. LTD. BHUBANESWAR	CHD.	DATE 12-8-04	<i>[Signature]</i> K.B.PRADHAN	NATIONAL ALUMINIUM CO LTD. SMELTER PLANT, ANGUL - 759 145	APPD.	DATE 16-8-04	<i>[Signature]</i> V.SENTHIL	TITLE : SPROCKET FOR RECEIVING DEVICE	SCALE AS SHOWN		DRG. No.	PART No-15				CH-B/SP/MECH/A4/ 7175			REVISION				1	
△	SPECIAL NOTE ADDED.	<i>[Signature]</i> 22-10-04	<i>[Signature]</i> 22.01.10																																																
Rev.No.	Revision Note	By	CHKD																																																
DRN.	DATE 10-8-04	<i>[Signature]</i> K.B.PRADHAN	PREPARED BY:- EAST END INFOTECH PVT. LTD. BHUBANESWAR																																																
CHD.	DATE 12-8-04	<i>[Signature]</i> K.B.PRADHAN	NATIONAL ALUMINIUM CO LTD. SMELTER PLANT, ANGUL - 759 145																																																
APPD.	DATE 16-8-04	<i>[Signature]</i> V.SENTHIL	TITLE : SPROCKET FOR RECEIVING DEVICE																																																
SCALE AS SHOWN		DRG. No.	PART No-15																																																
			CH-B/SP/MECH/A4/ 7175																																																
		REVISION																																																	
		1																																																	
1	2	3	A4																																																

Doc. Code: 4 0 1 4 0 0 1 3 0 1 4



SPROCKET DESIGN DATA

- 1. NO. OF TEETH = 8
- 2. ROLLER DIA. = 25
- 3. PITCH = 80
- 4. TYPE = SIMPLEX
- 5. TEETH WIDTH = 14
- 6. SLOPE RELIEF = 2

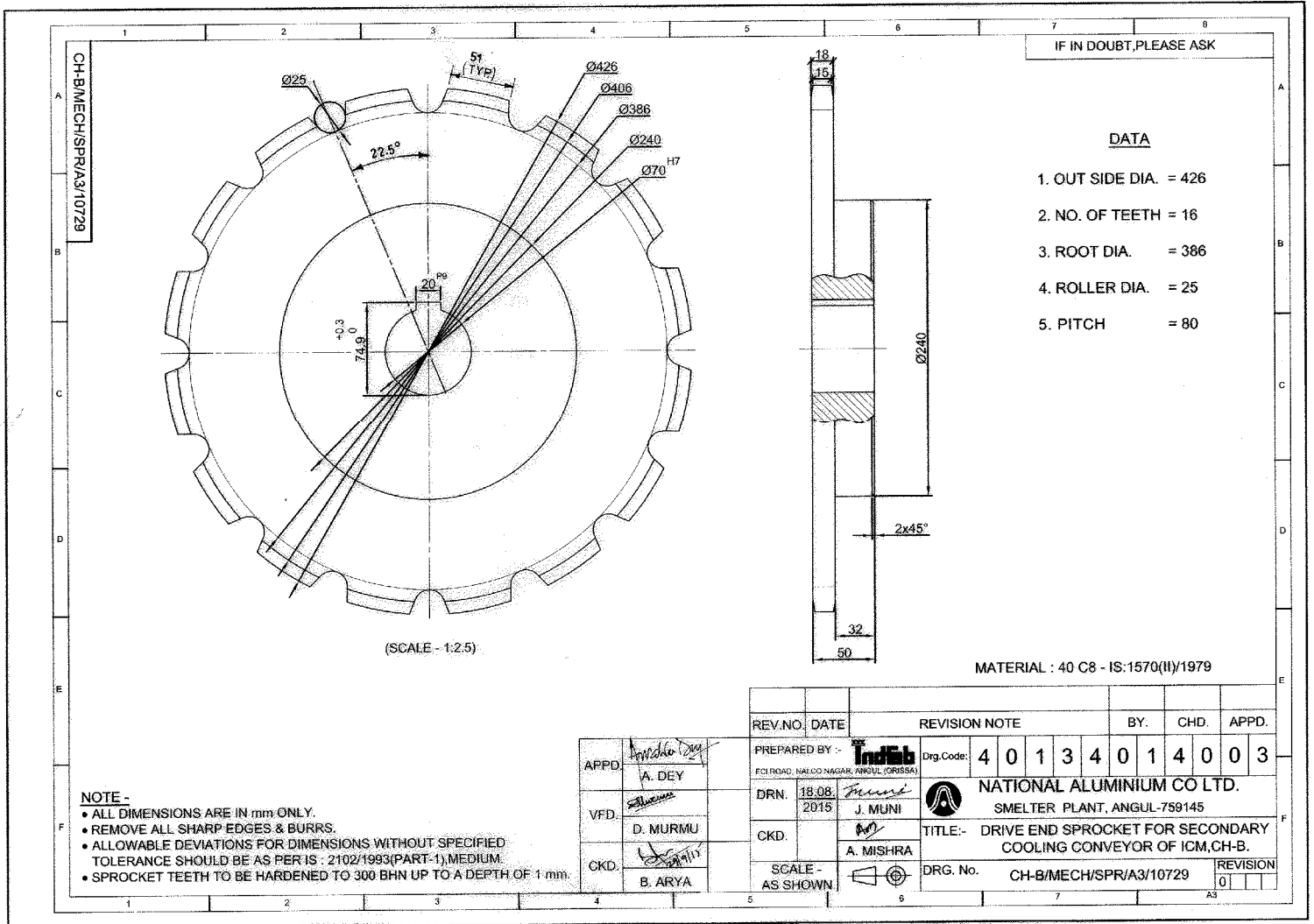
- NOTES:**
- ALL DIMENSIONS ARE IN MM ONLY.
 - REMOVE ALL SHARP EDGES & ROUNDS.
 - ALLOWABLE DEVIATIONS FOR DIMENSIONS WITHOUT SPECIFIED TOLERANCE SHOULD BE AS PER IS: 2102/1983(PART-1) MEDIUM.
 - WELDING PROCEDURE TO BE AS PER IS: 4013/1983 AND IS: 3302/1983.
 - WELDING ELECTRODE TO BE E6060 AS PER IS: 4143/1994.
 - STRESS RELIEVING TO BE DONE AFTER WELDING AS PER IS: 13417/1992.
 - SPROCKET TEETH FLAME HARDENED TO MIN 300 BHN.

REV.	DATE	REVISIONS	BY	CHKD.	APPROV.
1	27.10.10	REVISED AS PER DED			

APPROV.	E.K. PALMER	20.09.2010	PREPARED BY	AS PER DED	ENGR. 4014001260111
VPD.	S.C. SENHA	25.09.2010	CHKD.	A. BHASKAR	
CALL.	B. ARYA	28.09.2010	SCALE:	AS SHOWN	

NATIONAL ALUMINIUM CO. LTD.
 SIMULIAR PLANT, APRAAL/2010/10

TITLE: SPIN OF DIAMETER AND APPROVED OF COILING OF WIRE OF ROLL CASTING NO. OF DIB
 DRG. NO. CH-BMECH-SPR-1/17747-SH-22/21/11



IF IN DOUBT, PLEASE ASK

DATA

- 1. OUT SIDE DIA. = 426
- 2. NO. OF TEETH = 16
- 3. ROOT DIA. = 386
- 4. ROLLER DIA. = 25
- 5. PITCH = 80

MATERIAL : 40 C8 - IS:1570(II)/1979

NOTE -

- ALL DIMENSIONS ARE IN mm ONLY.
- REMOVE ALL SHARP EDGES & BURRS.
- ALLOWABLE DEVIATIONS FOR DIMENSIONS WITHOUT SPECIFIED TOLERANCE SHOULD BE AS PER IS : 2102/1993(PART-1), MEDIUM.
- SPROCKET TEETH TO BE HARDENED TO 300 BHN UP TO A DEPTH OF 1 mm.

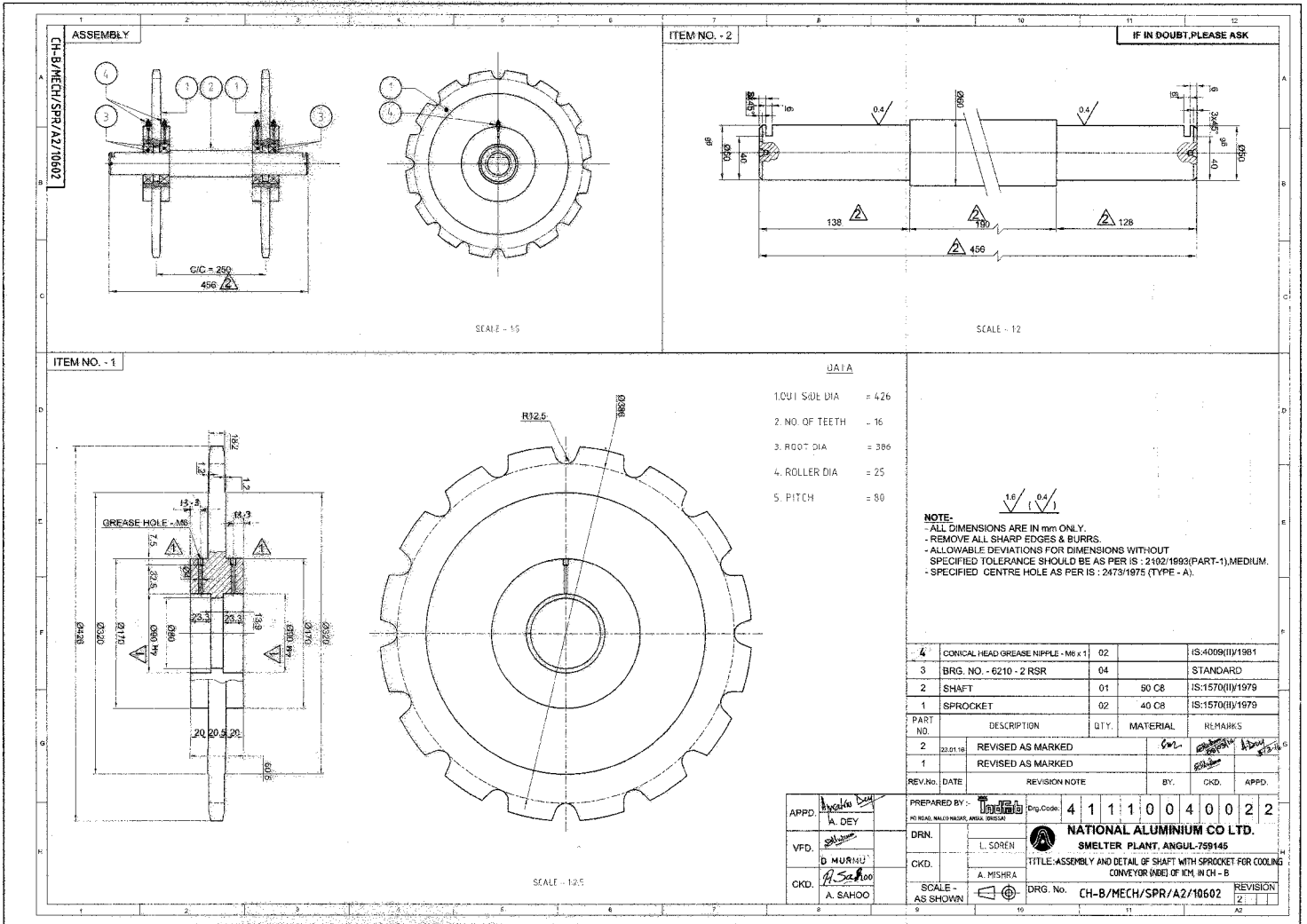
APPD.	<i>A. DEY</i>
VFD.	<i>D. MURMU</i>
CKD.	<i>B. ARYA</i>

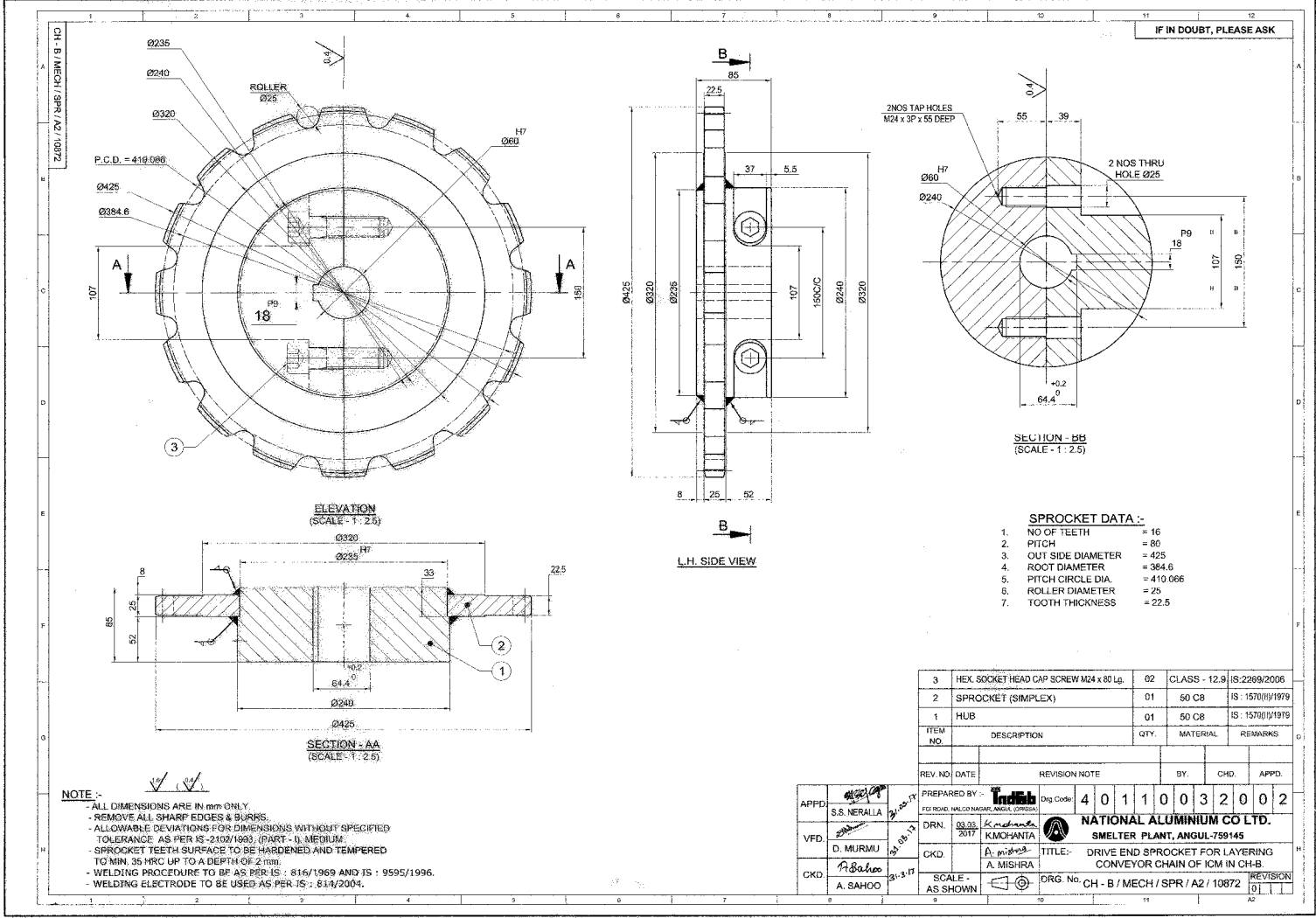
REV. NO.	DATE	REVISION NOTE	BY.	CHD.	APPD.
PREPARED BY :-	<i>J. MUNI</i>	Drq. Code: 4 0 1 3 4 0 1 4 0 0 3			
DRN.	18.08.2015	<i>J. MUNI</i>			
CKD.		<i>A. MISHRA</i>			
SCALE - AS SHOWN		DRG. No. CH-B/MECH/SPRA/3/10729			REVISION 0



NATIONAL ALUMINIUM CO LTD.
SMELTER PLANT, ANGUL-759145

TITLE:- DRIVE END SPROCKET FOR SECONDARY COOLING CONVEYOR OF ICM, CH-B.





3	HEX SOCKET HEAD CAP SCREW M24 x 80 Lg.	02	CLASS - 12.9	IS:2299/2006
2	SPROCKET (SIMPLEX)	01	50 CB	IS : 1570/1979
1	HUB	01	50 CB	IS : 1570/1979
ITEM NO.	DESCRIPTION	QTY.	MATERIAL	REMARKS

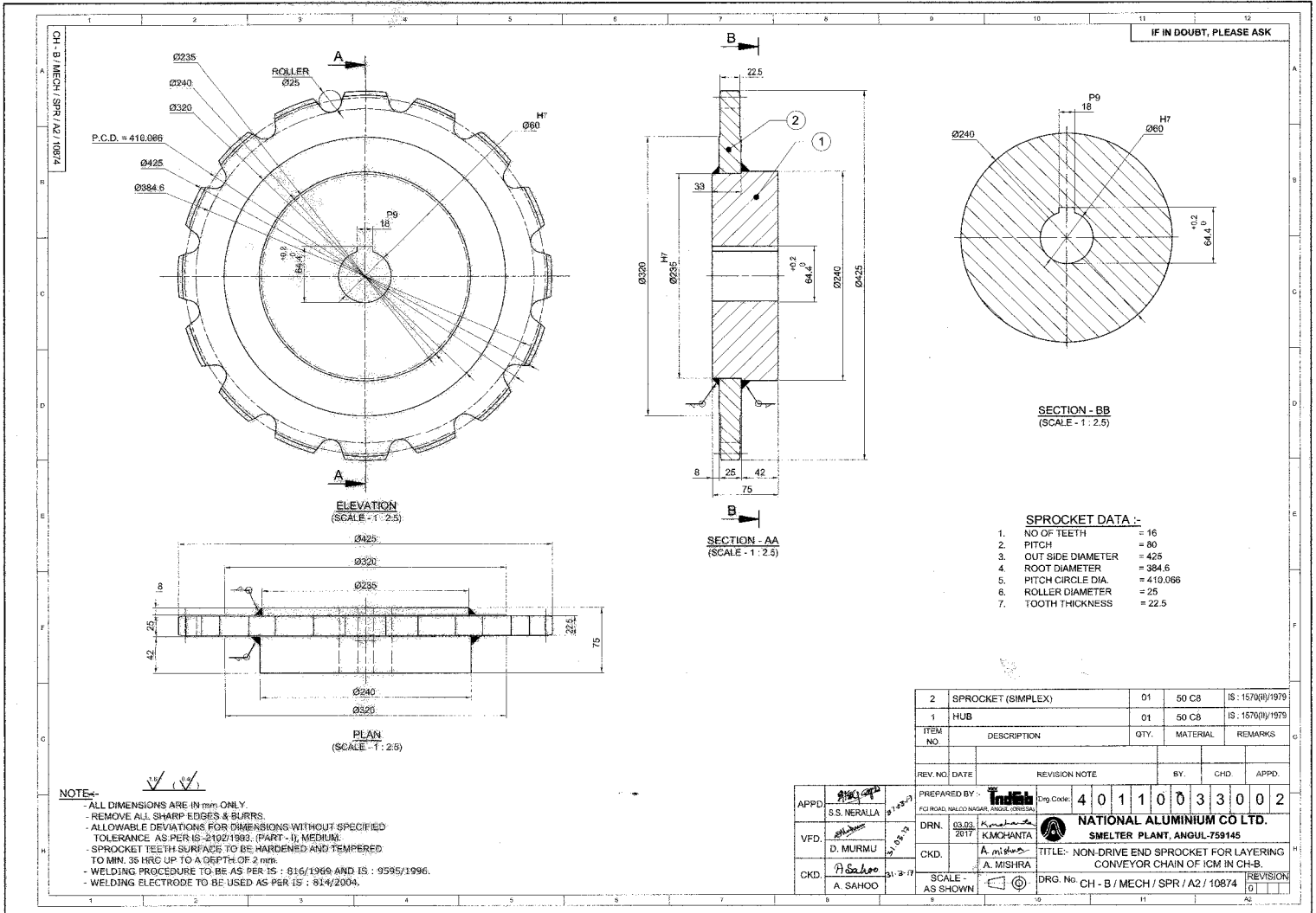
REV. NO.	DATE	REVISION NOTE	BY.	CHD.	APPD.
3	21-03-17				
2	08-08-17				
1	21-03-17				

APPD: S.S. NERALLA
VFD: D. MURMU
CKD: A. SAHOO

PREPARED BY: Indaba
DRN: 03.35/2017
CKD: A. MISHRA

DRG. CODE: 40110032002
NATIONAL ALUMINIUM CO. LTD.
SMELTER PLANT, ANGUL-759145
TITLE: DRIVE END SPROCKET FOR LAYERING CONVEYOR CHAIN OF ICM IN CH-B
ORG. No.: CH - B / MECH / SPR / A2 / 10872

SCALE: AS SHOWN
REVISION: 01



2	SPROCKET (SIMPLEX)	01	50 CB	IS : 1570(H)/1979
1	HUB	01	50 CB	IS : 1570(H)/1979
ITEM NO.	DESCRIPTION	QTY.	MATERIAL	REMARKS

REV. NO.	DATE	REVISION NOTE	BY.	CHD	APPD.
APPD.	S.S. NERALLA	21/05/23			
VFD.	D. MURMU	27/05/23			
CKD.	A. SAHOO	31/05/23			

PREPARED BY: **Indiah** (DRG Code: 401110033002)
 FCI ROAD, BALCO NAGAR, ANGUL (ORISSA)
 DRN. 03.03.2017 KMOHANTA
 CKD. A. MISHRA
NATIONAL ALUMINIUM CO LTD.
 SMELTER PLANT, ANGUL-759145
 TITLE: NON-DRIVE END SPROCKET FOR LAYERING CONVEYOR CHAIN OF ICM IN CH-B.
 SCALE - AS SHOWN DRG. NO CH - B / MECH / SPR / A2 / 10874