

Manufacturing Blueprints of BRRI Whole Feed Combine Harvester (Model: BRRI WCH2024)

Part I



AKM Saiful Islam

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Preface

The growing adoption of mechanized rice harvesting in Bangladesh has created a strong need for reliable, efficient, and locally manufacturable combine harvesters. While many machines are imported, they often come with challenges-high costs, difficult maintenance, and limited availability of spare parts. Recognizing these gaps, the Farm Machinery and Postharvest Technology Division of the Bangladesh Rice Research Institute (BRRI) has been working to develop a whole feed combine harvester suited to our local field conditions, farmers' needs, and industrial capabilities. This book, *Manufacturing Blueprints of BRRI Whole Feed Combine Harvester (Model: BRRI WCH2024)*, presents the engineering drawings of eleven key sections of the machine. The complete manufacturing documentation has been structured into two parts, and this volume constitutes Part I, covering the walking section, main power section, operating section, hydraulic section and reel section of the combine harvester. It is prepared to support local manufacturers, researchers, and students by providing a practical and dependable reference for fabrication and assembly. Each section reflects BRRI's effort to make harvesting technology more accessible, serviceable, and sustainable for Bangladesh. We hope this publication not only strengthens local production capacity but also inspires further innovation in agricultural machinery design.



Director General
Bangladesh Rice Research Institute

Foreword

Agricultural mechanization plays a vital role in transforming Bangladesh's rice farming system, especially at a time when timely harvesting and labor shortages pose significant challenges. Reliable and cost-effective combine harvesters can greatly enhance harvesting efficiency, reduce grain loss, and support farmers in achieving better productivity. The Manufacturing Blueprints of BRRRI Whole Feed Combine Harvester (Model: BRRRI WCH2024) is a noteworthy contribution toward strengthening local capacity in this sector. Imported combine harvesters often struggle to cope with Bangladesh's field conditions and create long-term dependency on foreign parts and services. To address these issues, BRRRI has taken the initiative to design a whole feed combine harvester that is durable, locally manufacturable, and suited to our farmers' practical needs. This book provides detailed engineering drawings of eleven major sections of the machine, offering a clear and accessible reference for engineers, manufacturers, and researchers. Compiled with the expertise and dedication of the BRRRI engineering team, this publication reflects our ongoing commitment to advancing indigenous farm machinery development. I believe it will support local manufacturing industries, encourage innovation, and contribute to Bangladesh's journey toward greater self-reliance in agricultural mechanization.

A handwritten signature in black ink, appearing to read 'M. Khalequzzaman'.

(Dr. Mohammad Khalequzzaman)



Chief Scientific Officer
Farm Machinery and Postharvest Technology Division
BRRI, Gazipur

About Project Director

Dr. AKM Saiful Islam graduated from the Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh and received chancellor award for achieving first position in graduate course. Dr. Islam obtained MS degree from the same university in 1996. He completed postgraduate diploma course from Silsoe College, UK in 1997. Dr. Islam obtained PhD in Agricultural Engineering from the Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh in 2012. He started his career as a Scientific Officer in Farm Machinery and Postharvest Technology Division of Bangladesh Rice Research Institute in 1998. Dr. Islam developed training manual for seedling raising techniques, BRRI weeder, rice-wheat reaper, BRRI open drum thresher, BRRI rice-wheat thresher, BRRI panicle thresher, BRRI whole feed combine harvester. He is involved in the invention and development of mechanized seedling raising techniques, BRRI seed sower, BRRI auto seed sower, BRRI rice transplanter, BRRI semi-automatic rice transplanter, BRRI solar light trap, BRRI urea super granular fertilizer, BRRI power weeder, BRRI rice-wheat reaper, BRRI rice-wheat thresher, BRRI panicle thresher, BRRI whole feed combine harvester, BRRI head feed combine harvester, BRRI straw rope maker, BRRI air blow rice mill, BRRI compact rice mill, BRRI rice mill and BRRI short and long rice processing technology. At present, he is working as a Chief Scientific Officer and project director of the project "Strengthening Farm Machinery Research Activity for Mechanized Rice Cultivation (SFMRA)".

About the project

The project "Strengthening Farm Machinery Research Activity for Mechanized Rice Cultivation" was approved for implementation from July 2019 to June 2027 at an estimated cost of Tk 5059 Lakhs. The project is being implemented by the Farm Machinery and Postharvest Technology Division of Bangladesh Rice Research Institute under the Ministry of Agriculture in 12 upazilas of 12 districts of seven divisions of the country. One of the main objectives of the project is to strengthen farm machinery research activities for sustainable rice cultivation. The specific objectives of the project are (a) Developing ten agricultural machinery and technologies suitable to the socio-economic condition of the farmers: i.e. rice transplanter, mini combine harvester, power weeder, reaper binder, compact rice mills, rice transplanter-cum-fertilizer, straw rope maker, seed sower machines, post-harvest management and renewable energy (solar and briquette machines); (b) Further development of the machinery by collecting feedback from the stake holder through 400 adaptive trials; (c) Providing hands-on training to 6480 machine operators, farmers, mechanics and service providers and 480 local agricultural machinery manufacturers and extension officers/workers to increase their skills on modern agricultural machinery; (d) Capacity building of 20 scientists and 20 workshop workers for the research on modern agricultural machinery through higher education and training; and (e) Modernization of existing farm machinery research lab-cum-workshop. The project activities are a) Developing nine agricultural machinery and post-harvest technologies suitable for sustainable rice production i.e. rice transplanter, combine harvester, power weeder, reaper binder, compact rice mill, rice transplanter-cum-fertilizer, straw rope maker, seed sower machine, post-harvest management and renewable energy (solar and briquette machines); b) To procure prototypes from abroad and preparing indigenously adapted machines through reverse engineering and applied research; c) To develop machine according to the feedback obtained through practical field tests; d) To conduct 324 two-day residential hands-on training on seedling raising techniques, operation, repair and maintenance of rice transplanters for mechanized rice transplanting; e) To sensitize 6480 farmers, machine operators, mechanics, farmer groups/farmers associations, service providers about utility of agricultural machinery, operating techniques, repair and maintenance through 480 practical field tests of BRRI developed modern machinery; f) To publish the training schedule and names of the trainees in the form of a database on the BRRI web site to maintain transparency and accountability in the training program and to avoid duplicity in the selection of trainees; g) Developing 10 skilled scientific manpower through three months of overseas training; h) To organize short term (7-10 days) training of 10 scientists in agricultural machinery manufacturing countries; j) Conducting 10 trainings of three days duration on transfer of machinery technology to the farm machinery manufacturers/extension officers/workers; j) To enhance quality research skills by establishing machine testing lab (375 square meters) with modern equipment for machinery quality control; k) Develop a commercial approach to agriculture through limited long-term use of farm machinery and rental machinery service providers in the project area; l) Building co-operation between researchers, extension workers, manufacturers and farmers; d) Development of 2,500 cubic meter research field/plot for head office research; d) Vertical extension (450 square meters) of farm machinery lab cum office building at head office; n) Construction of machinery display cum ware house (150 sq m to 750 sq m in 5 Regional stations) for display room at BRRI Regional stations; (v) Skilling of 20 workshop workers through training in machine prototyping, repair and maintenance; d) To provide necessary technical assistance to the entrepreneurs and machinery manufacturing institutions/factories serving through the Department of Agriculture Extension for ensuring the use of sustainable agricultural machinery at the field level. Recruiting 11 persons (one office assistant cum computer programmer, two bench mechanics, two lathe-operators, two tin smiths, two hammer men and two drivers) through outsourcing to support the project director in project execution. Scientists of FMPHT division, research assistants, Accountant of Accounts division and staff of Planning and Evaluation division are working on the project as additional responsibilities.

Technical Specification

Name: BRR I Whole Feed Combine Harvester

Model: BRR I WCH2024

Taking l =length, w =width, h =height, t =thickness, ϕ =diameter, r =radius

Parameters

Model	BRR I WCH2024
Overall dimension (L×W×H), mm	5200 × 1800 × 2600
Threshing drum (L, Φ)	2000mm, Φ 620
Total weight, kg	3200
Engine type	Turbo charger, direct injection, vertical 4-stroke 4-cylinder, water-cooled with diesel engine
Engine rated power, hp/ rpm	87 /2400
Rubber track (Crawler), mm	400 × 90 × 51
Contact Ground pressure, kPa	21
Traction load, kN/m ²	20.7
Ground clearance, mm	300
Power transmission System	Mechanical + HST
HST volume, cc	45
HST power, rpm	3000
Fuel tank capacity, L	80-100
Grain tank, kg	600-650
Cutting width, mm	1570
Cutting height range, mm	20-500
Threshing system	Axial flow, Single Drum, Bottom threshing
Cylinder Revolution speed, rpm	500-510
Machine Turning System	Clutch and Brake (Turning Cylinder)
Threshing Type	Tangential Axial Flow
Traction Area, m ²	1.376 for two crawlers
Machine Running speed, km/hr	0~2.88; 0~4.54; 0~7.56
Reaping Type	Reciprocating single cutting blades
Maximum harvesting speed, Km/hr	7.1-7.5
Harvest speed, rpm	500-550
Harvesting capacity, bigha	3-4
Forward speed, km/h	3-4
Fuel consumption, L/hr	3.5-4
Discharge pipe length, mm	1500
Discharge pipe diameter, mm	180
Up-down range (Degree) and Up-Down system	0° to 48° & Hydraulic
Straw condition	Both Full Straw and Chopping
Total harvesting loss, %	Less than 1%

Index

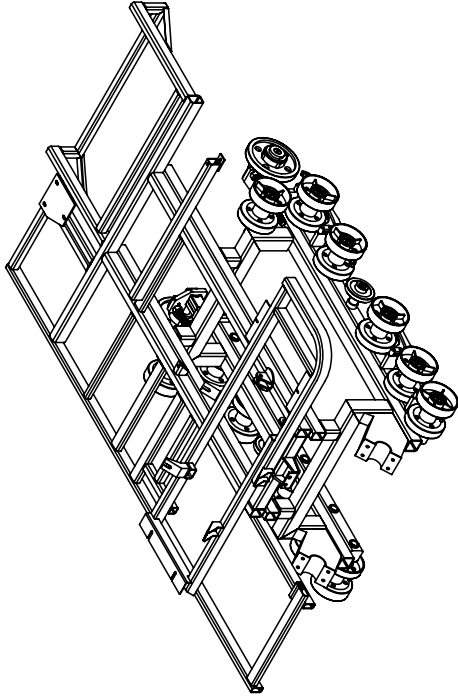
Part I


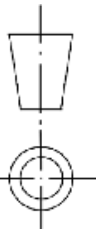
Sub-assembly no.	Description	Sheet no.	Page no.
1	Walking section	1- 89	01 – 90
2	Main power section	90 - 107	91 - 109
3	Operating section	108 - 143	110 – 146
4	Hydraulic section	144 - 147	147 – 151
5	Reel section	148 - 182	152 – 187

Sub- assembly 01
Walking section
Sheet no. 01 – 89

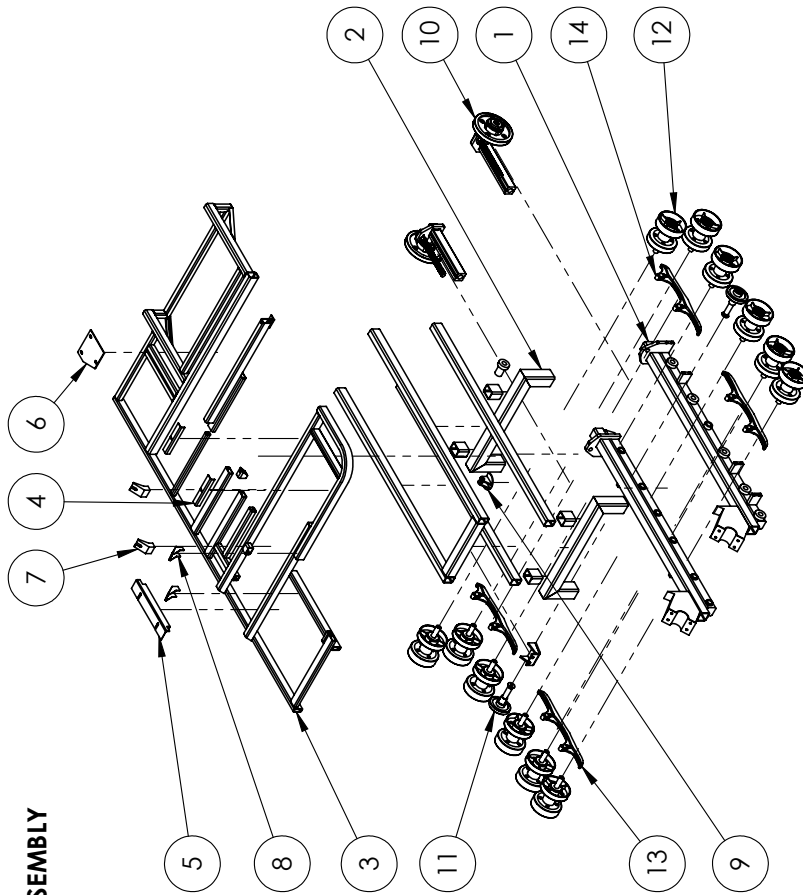
BILL OF MATERIAL: MAIN BASE SUB-ASSEMBLY


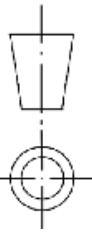
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2	Base-02 Sub-Assembly	1	ASS_BS02_017_A4	ASTM A36 STEEL
3	Base-03 Sub-Assembly	1	ASS_BS03_024_A4	ASTM A36 STEEL
4	Battery Base	2	ASS_BB_054_A4	ASTM A36 STEEL
5	Radiator Base	1	ASS_RB_055_A4	ASTM A36 STEEL
6	Lock Stand Base	1	ASS_LSB_056_A4	ASTM A36 STEEL
7	Engine Base-01	3	ASS_EB01_057_A4	ASTM A36 STEEL
8	Engine Base-02	1	ASS_EB02_058_A4	ASTM A36 STEEL
9	Hydraulic Pin Lock	1	ASS_HPL_059_A4	ASTM A36 STEEL
10	Guide Wheel Comb.	1	ASS_GWC_060_A4	ASTM A36 STEEL
11	Support Wheel Comb.	2	ASS_SWC_071_A4	ASTM A36 STEEL
12	Thrust Wheel Comb.	12	ASS_TWC_076_A4	ASTM A36 STEEL
13	Guide Rail_Front	2	ASS_GRF_088_A4	ASTM A36 STEEL
14	Guide Rail_Rear	2	ASS_GRR_089_A4	ASTM A36 STEEL



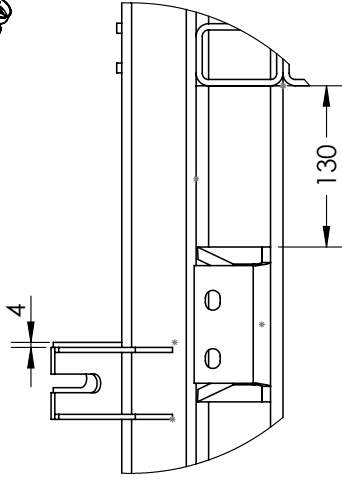
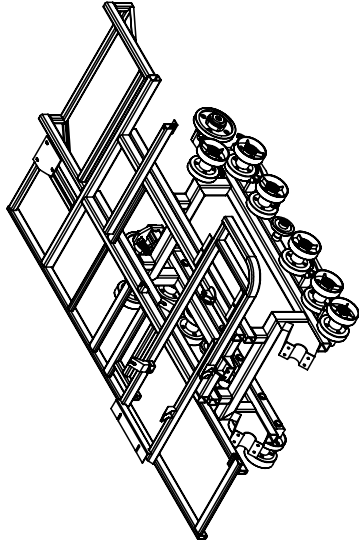
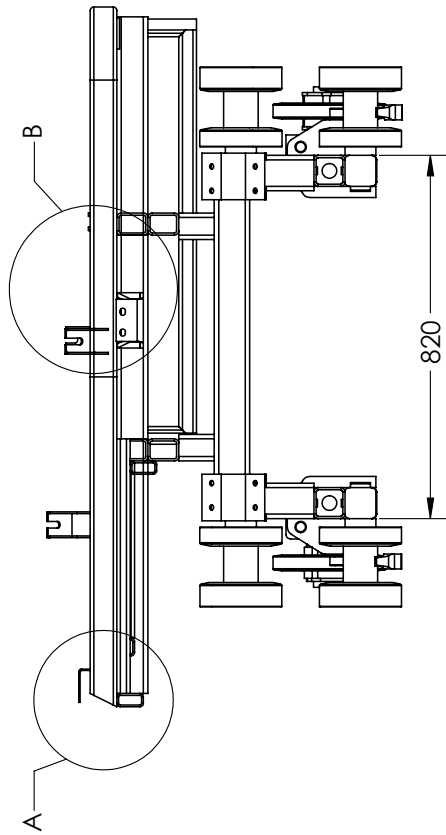
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CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	
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EXPLODED VIEW: MAIN BASE SUB-ASSEMBLY

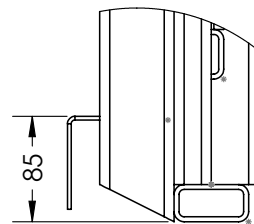


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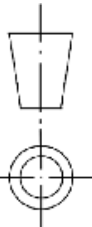
FRONT VIEW: MAIN BASE SUB-ASSEMBLY

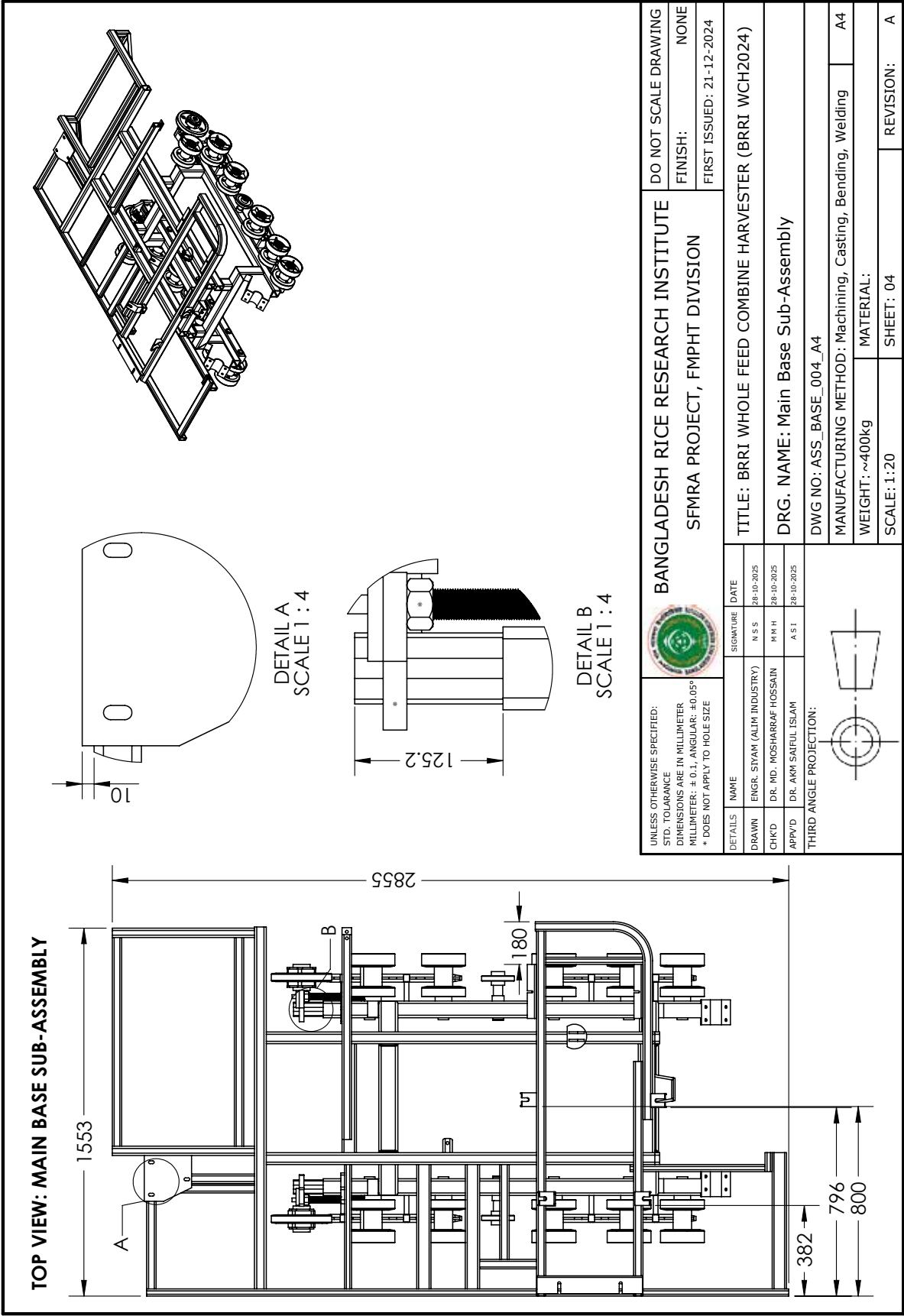


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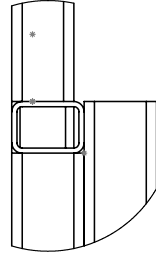
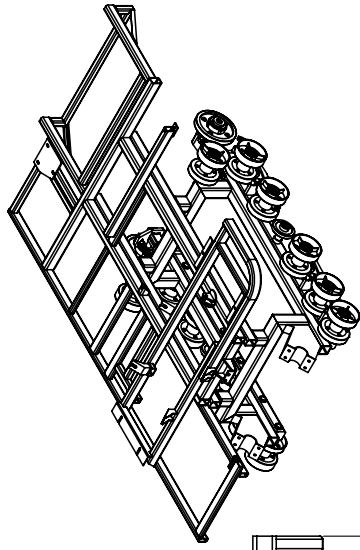
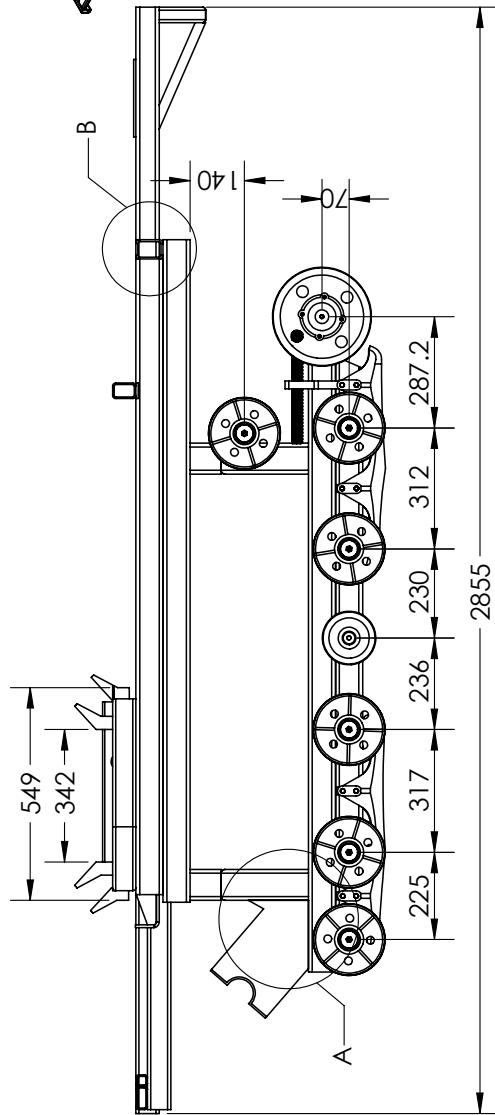


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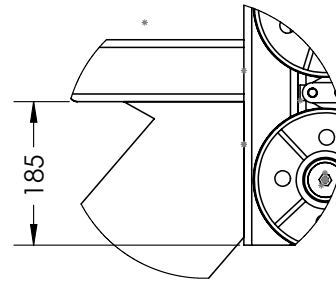
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RIGHT VIEW: MAIN BASE SUB-ASSEMBLY



DETAIL B
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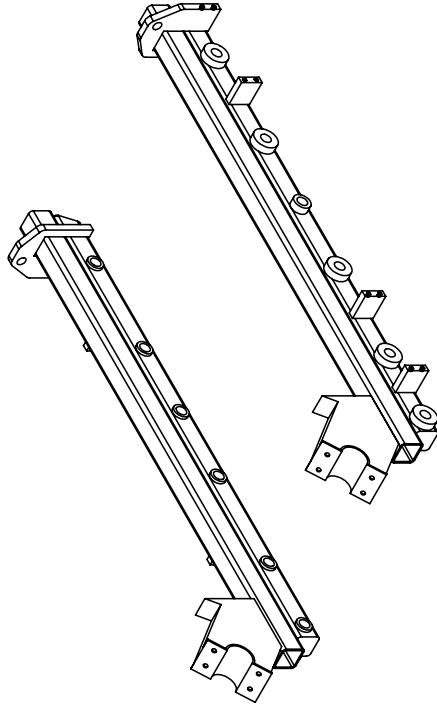



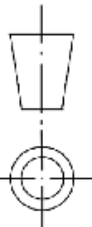
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APP'VD DR. AKM SAIFUL ISLAM	DATE 28-10-2025	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		
SFMRA PROJECT, FMPHT DIVISION				
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MATERIAL:				
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SHEET: 05				
REVISION: A				

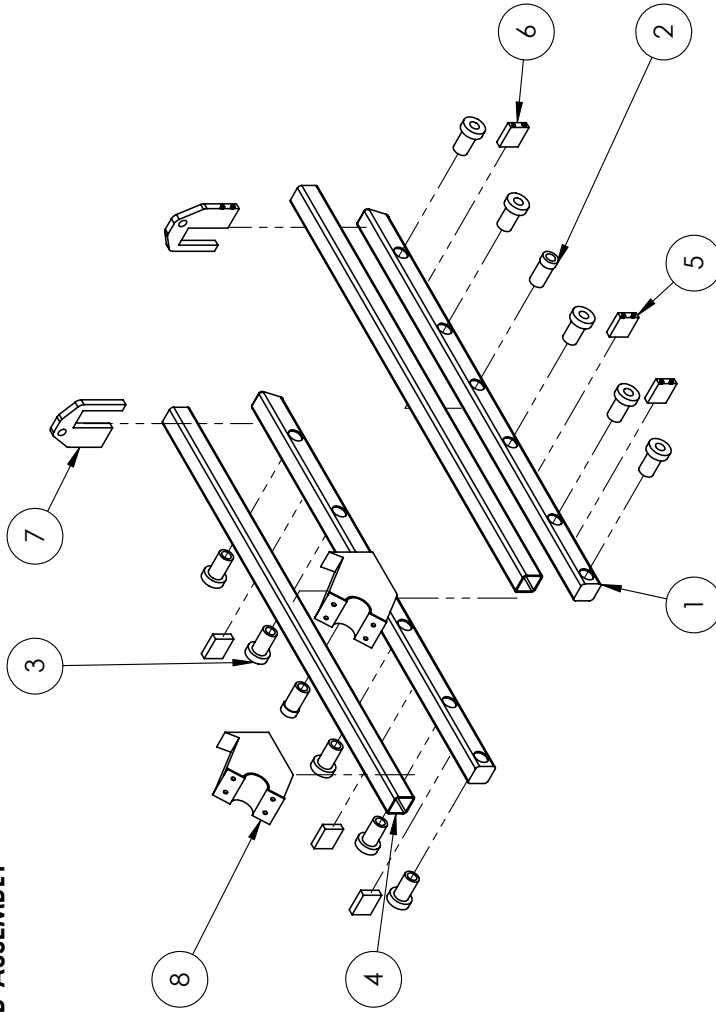
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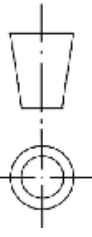
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1	SBX-70-05-1539	2	ASS_SB01_009_A4	ASTM A36 STEEL
2	Bush-SW-Welded	2	ASS_BSW_010_A4	ASTM A36 STEEL
3	Bush-TW-Welded-01	10	ASS_BTW_011_A4	ASTM A36 STEEL
4	SBX-70-05-1600	2	ASS_SB02_012_A4	ASTM A36 STEEL
5	Rail Plate_Front	4	ASS_RPF_013_A4	ASTM A36 STEEL
6	Rail Plate_Rear_Small	2	ASS_RPRS_014_A4	ASTM A36 STEEL
7	Rail Plate_Rear_Large	2	ASS_RPRL_015_A4	ASTM A36 STEEL
8	Gearbox Axle Attachment	2	ASS_GAA_016_A4	ASTM A36 STEEL



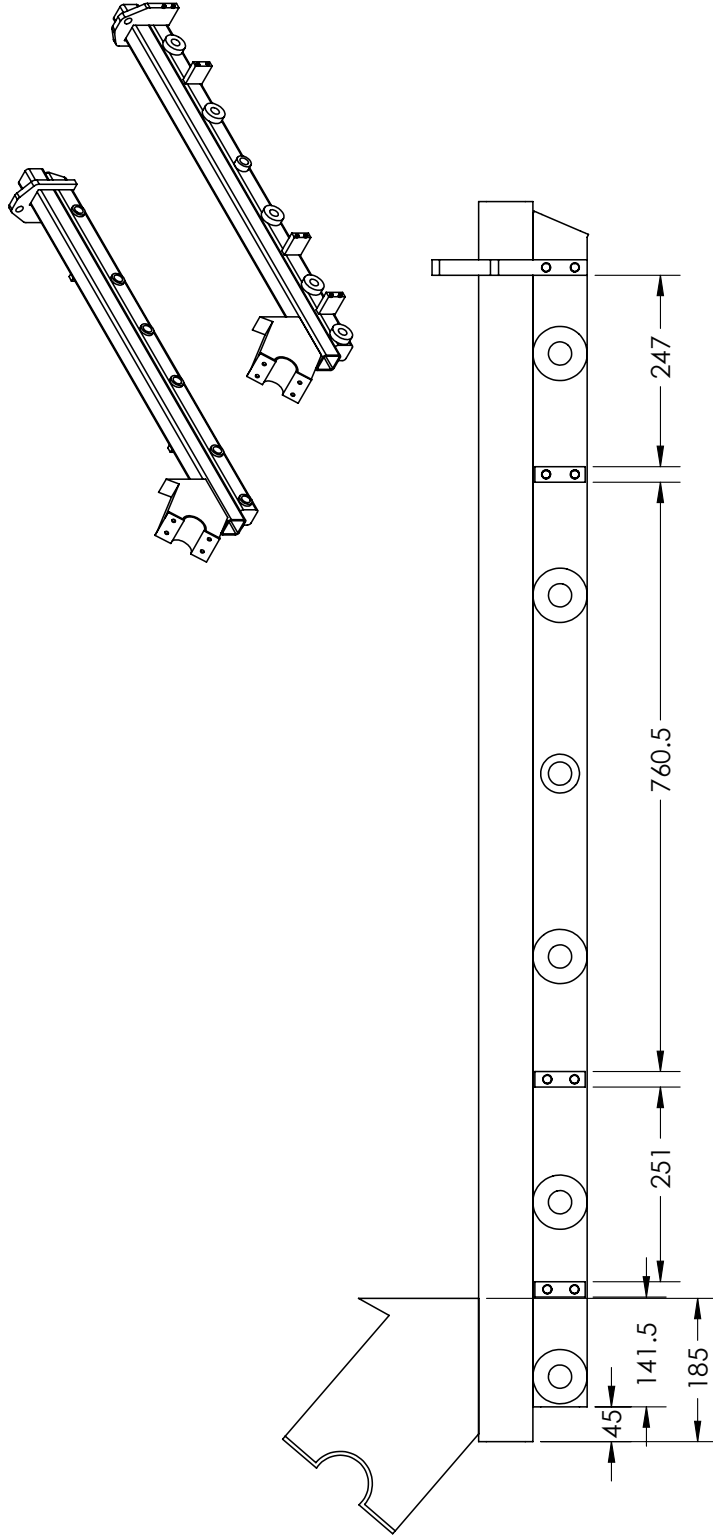
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THIRD ANGLE PROJECTION: 							


EXPLODED VIEW : BASE-01 SUB-ASSEMBLY

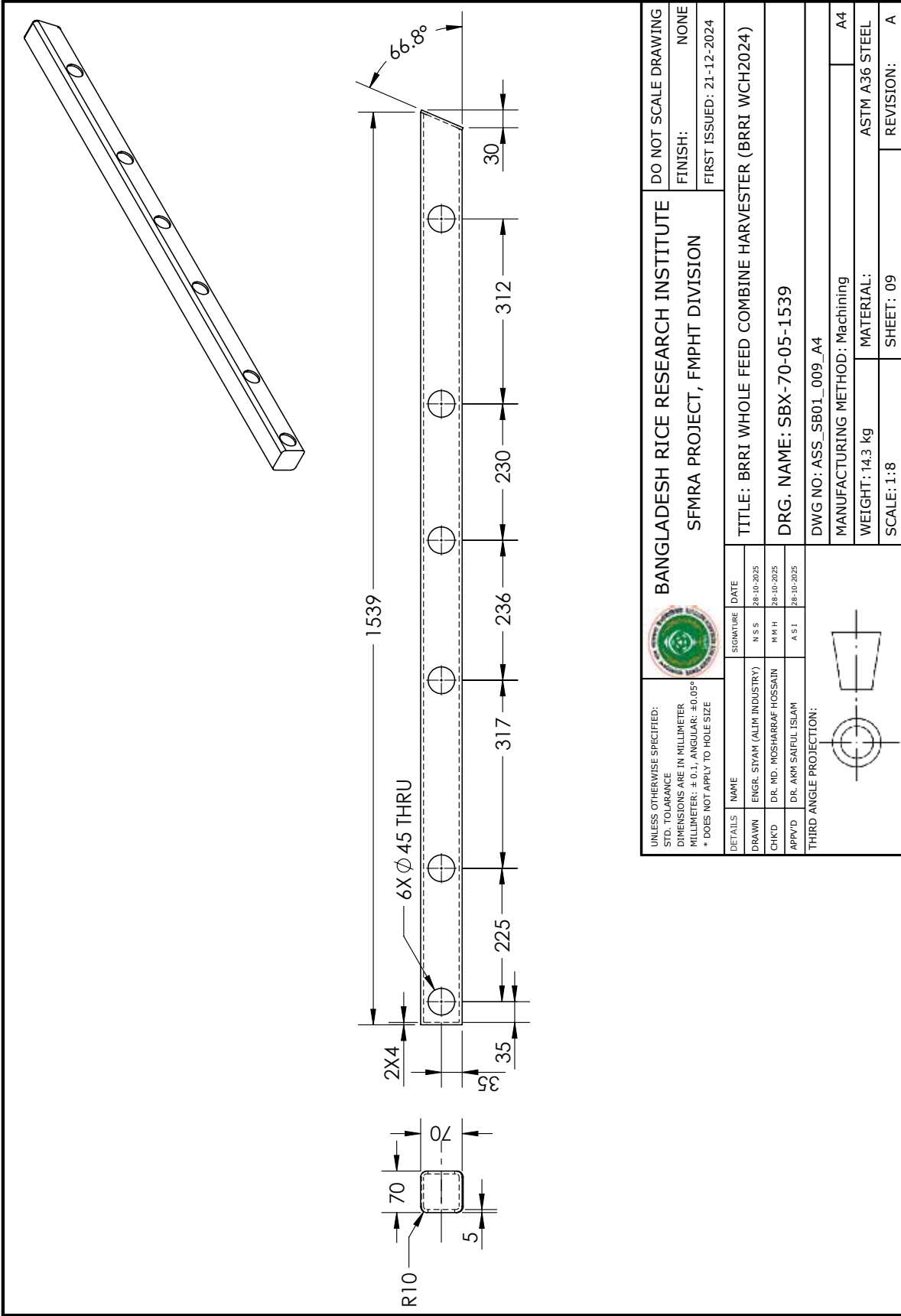


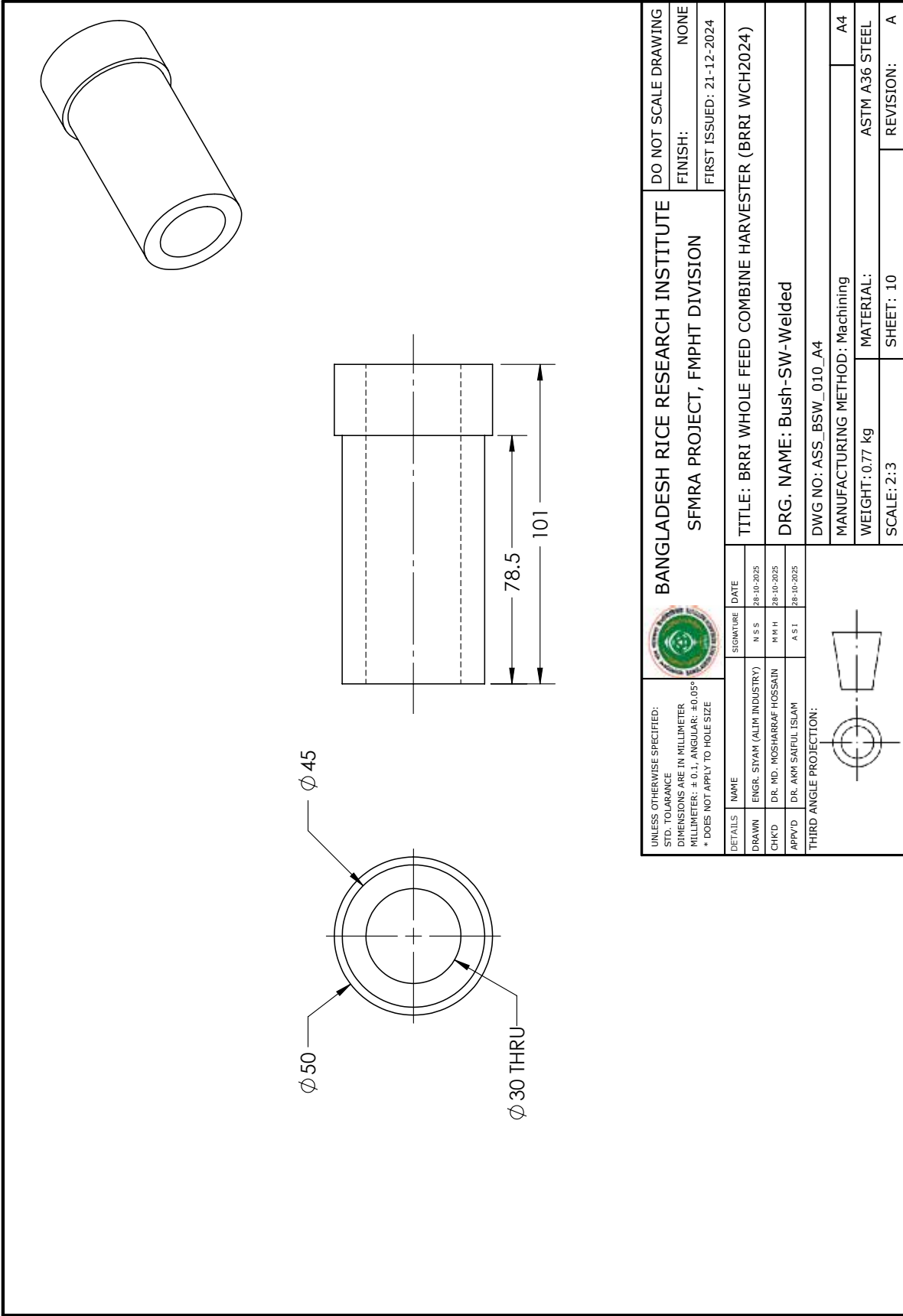
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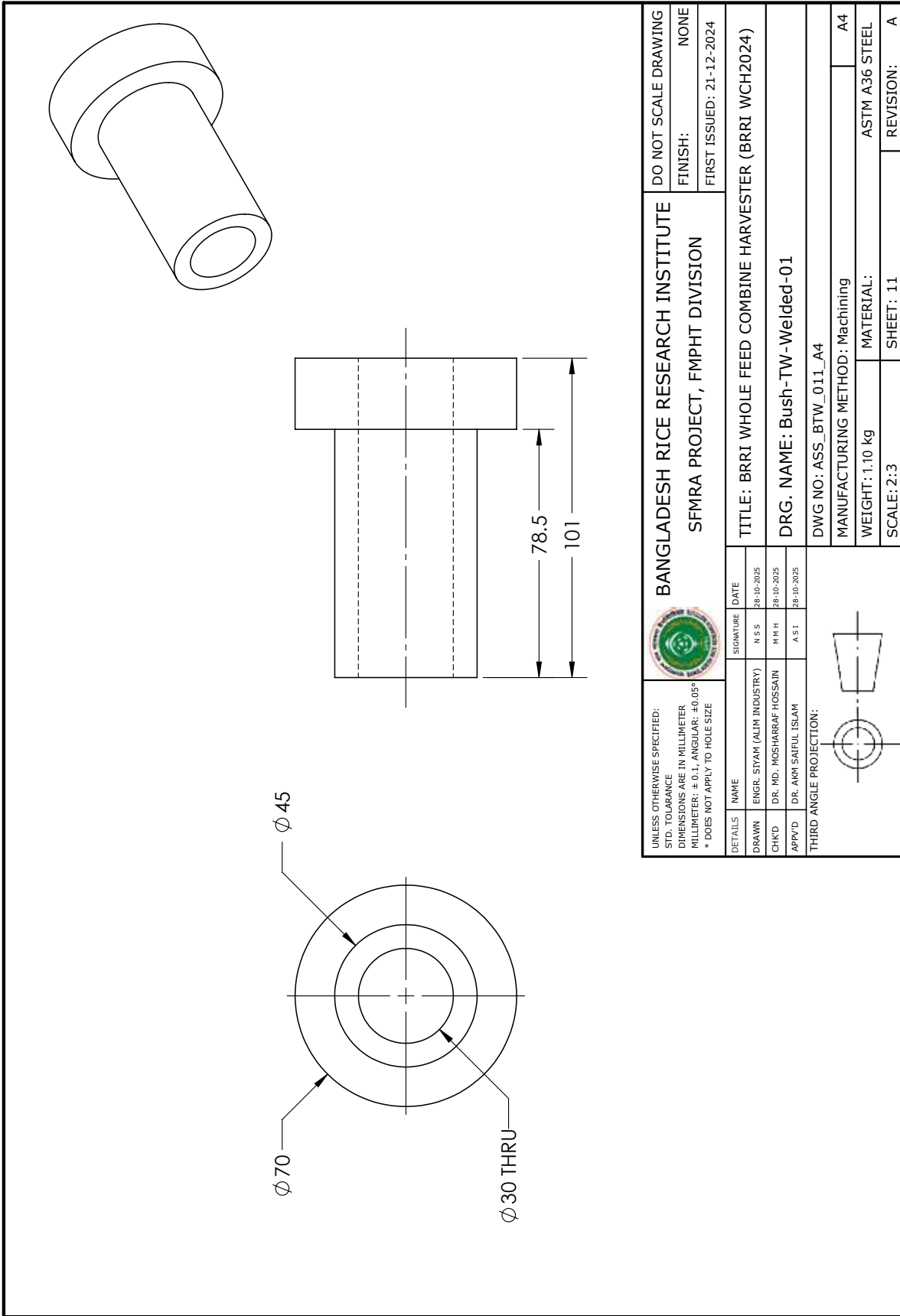
RIGHT VIEW: BASE-01 SUB-ASSEMBLY

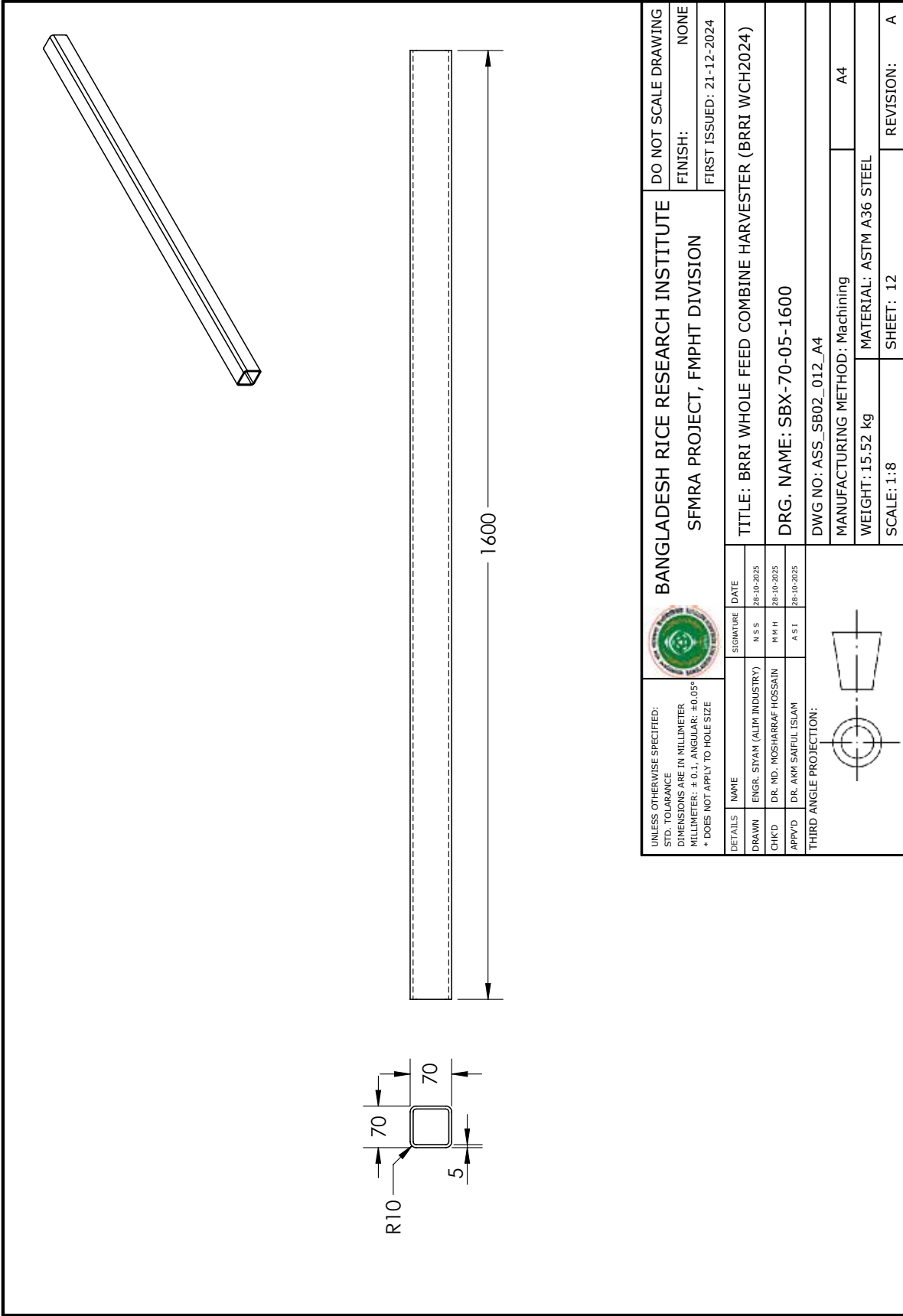


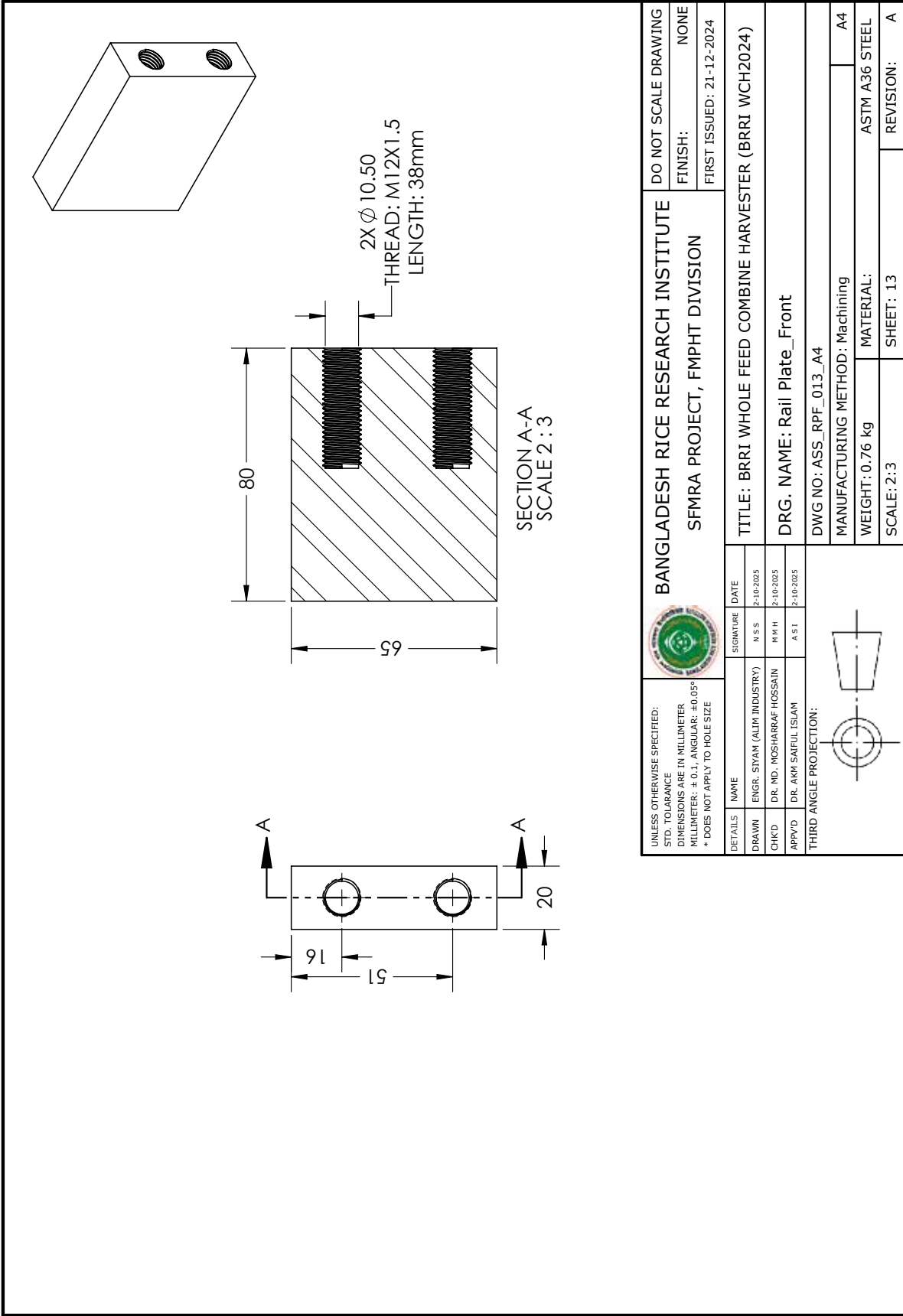
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APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	
THIRD ANGLE PROJECTION:		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Base-01 Sub-Assembly DWG NO: ASS_BS01_008_A4 MANUFACTURING METHOD: Machining, Welding WEIGHT: 95.37 kg MATERIAL: SCALE: 1:8 SHEET: 08 REVISION: A		



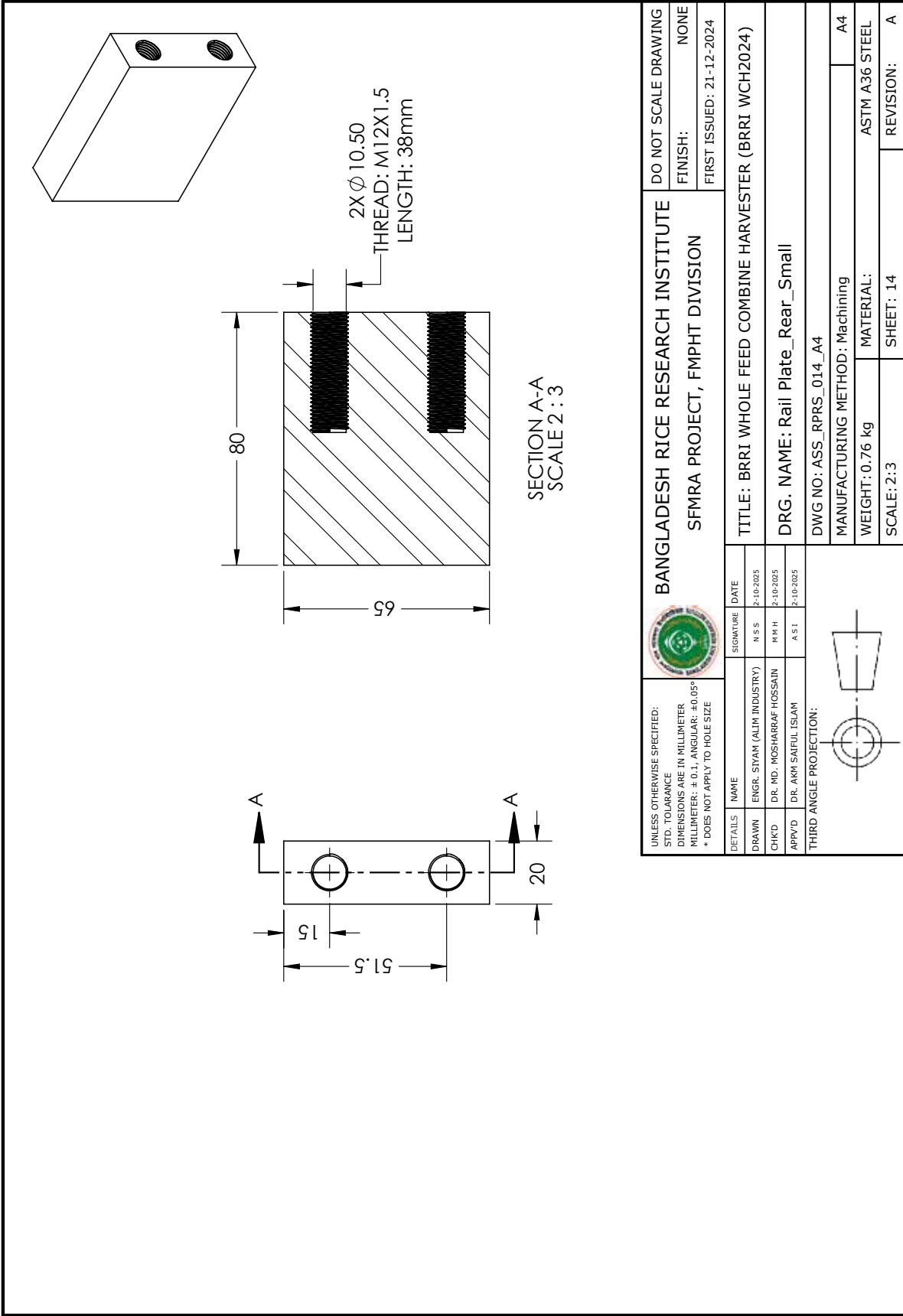


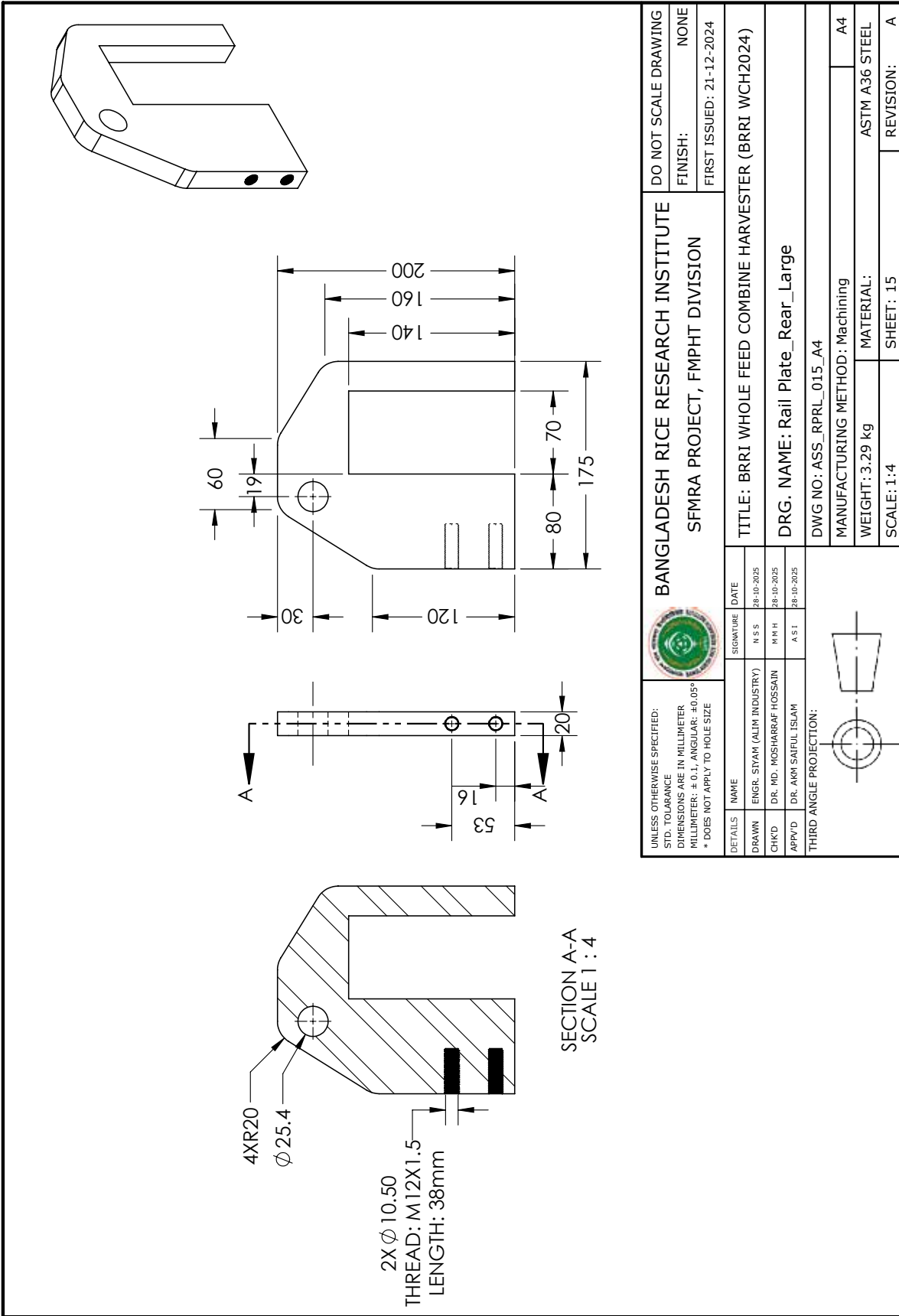



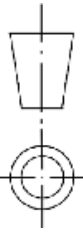


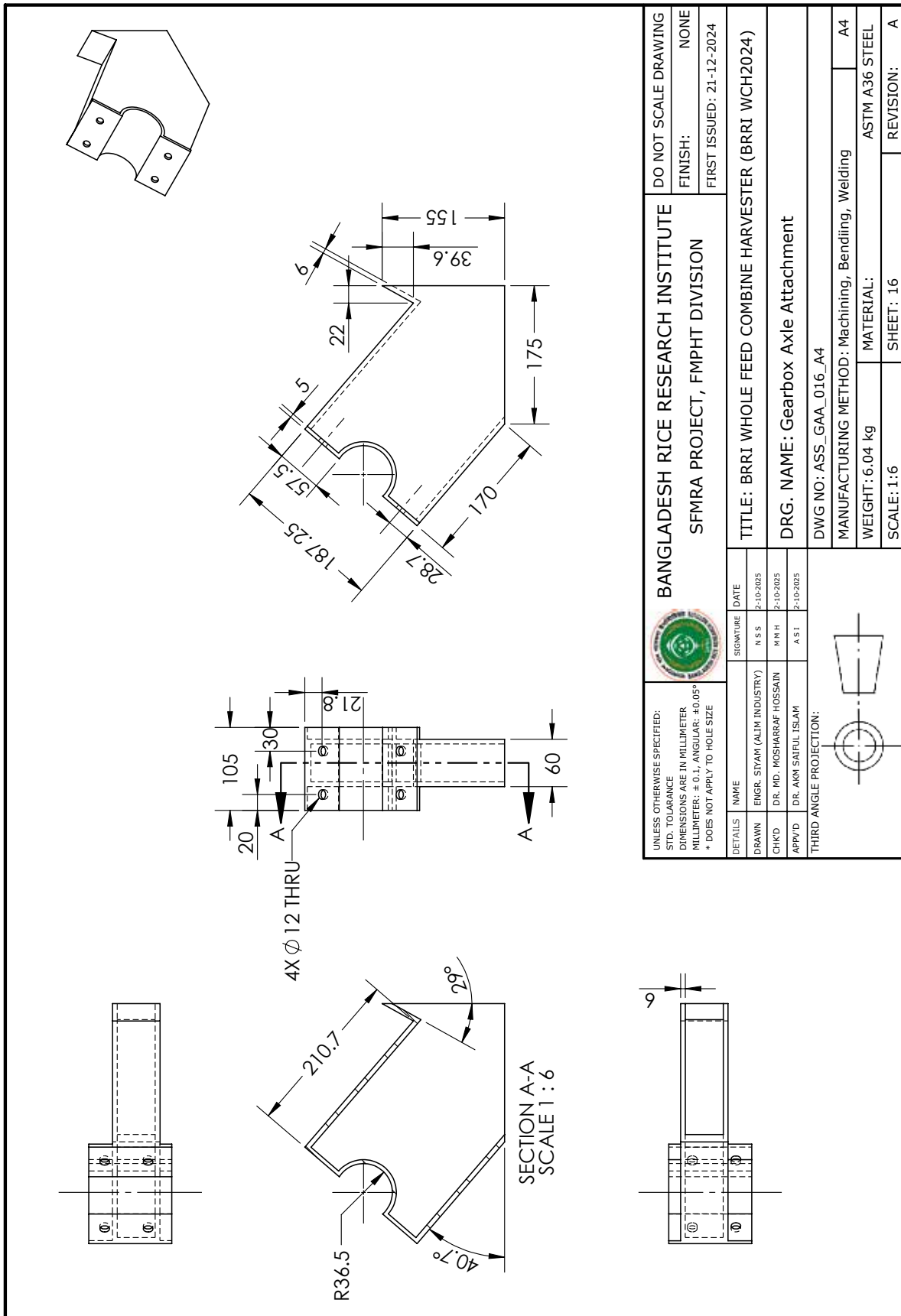


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		SIGNATURE		DATE	DO NOT SCALE DRAWING	
DETAILS	NAME	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	FINISH:	NONE
	DRAWN	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	FIRST ISSUED:	21-12-2024
	CHK'D	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)	
	APP'VD				DRG. NAME: Rail Plate_Front	
THIRD ANGLE PROJECTION:				DWG NO: ASS_RPF_013_A4		
				MANUFACTURING METHOD: Machining		
				WEIGHT: 0.76 kg		
				MATERIAL: ASTM A36 STEEL		
				SCALE: 2:3		
				SHEET: 13		
				REVISION: A		



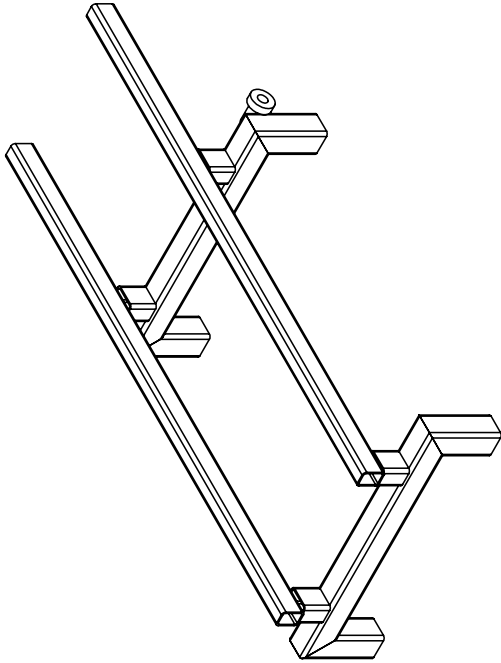



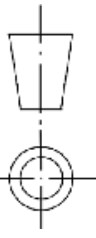
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ±0.1; ANGULAR: ±0.05° * DOES NOT APPLY TO HOLE SIZE		DETAILS NAME ENGR. SIYAM (ALIM INDUSTRY)	SIGNATURE N S S	DATE 28-10-2025	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)
DRAWN ENGR. SIYAM (ALIM INDUSTRY)	CHK'D DR. MD. MOSHARRAF HOSSAIN	APP'VD DR. AKM SAIFUL ISLAM	M N H A S I	28-10-2025 28-10-2025	DRG. NAME: Rail Plate_Rear_Large DWG NO: ASS_RPRL_015_A4
THIRD ANGLE PROJECTION:					MANUFACTURING METHOD: Machining WEIGHT: 3.29 kg SCALE: 1:4
					MATERIAL: ASTM A36 STEEL SHEET: 15 REVISION: A



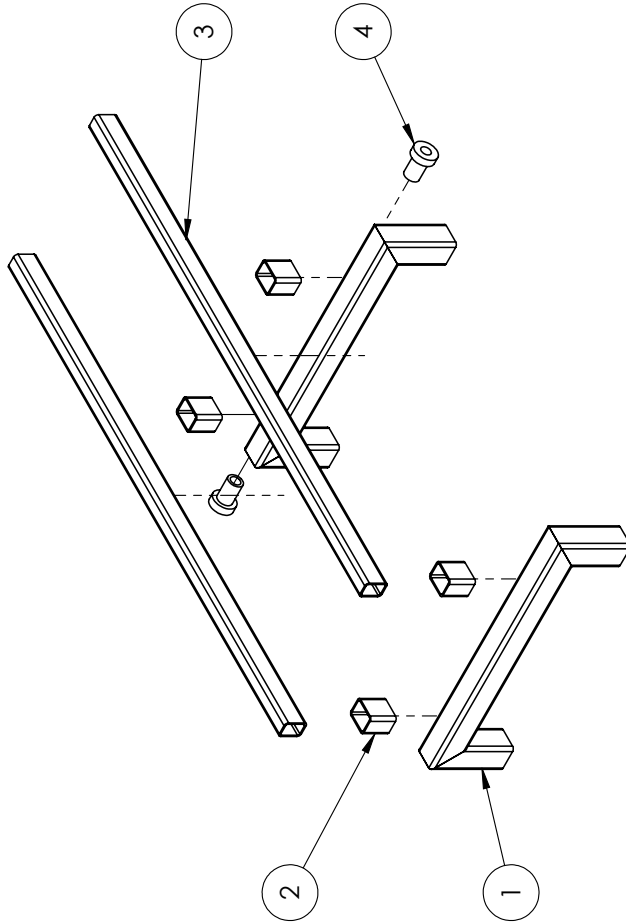
BILL OF MATERIAL: BASE-02 SUB-ASSEMBLY


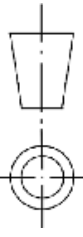
ITEM NO.	PART NAME	PART NUMBER	QTY.	MATERIAL
1	SBX-80-05-225-820-225	ASS_SB03_020_A4	2	ASTM A36 STEEL
2	RBX-80-60-05-80	ASS_RB01_021_A4	4	ASTM A36 STEEL
3	RBX-70-50-05-1710	ASS_RB02_022_A4	2	ASTM A36 STEEL
4	Bush-TW-Welded-02	ASS_BTW_023_A4	2	ASTM A36 STEEL



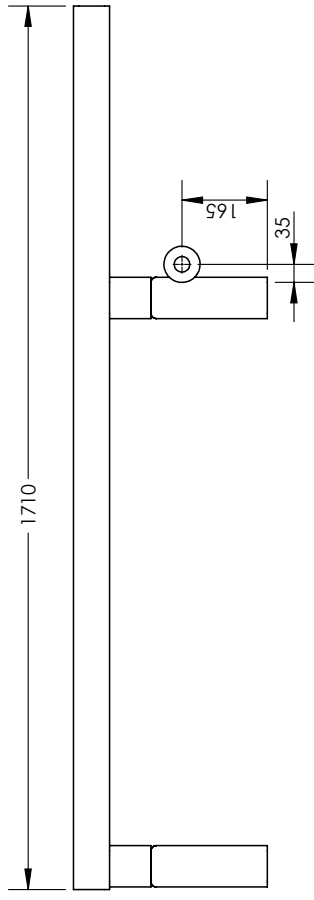
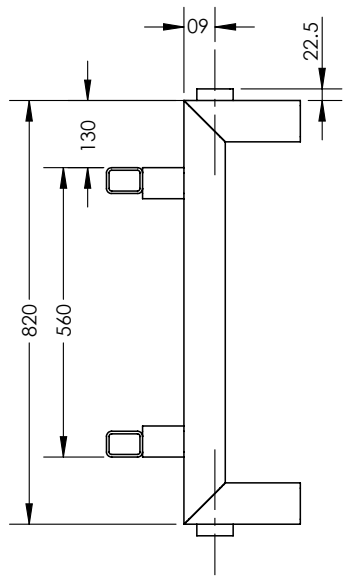
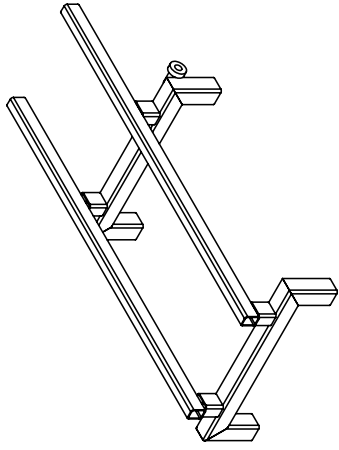
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	
THIRD ANGLE PROJECTION:		TITLE: BRR I WHOLE FEED COMBINE HARVESTER (BRR I WCH2024)		
		DRG. NAME: Base-02 Sub-Assembly		
		DWG NO: ASS_BS02_017_A4		
		MANUFACTURING METHOD: Machining, Welding		
		WEIGHT: 89.11 kg		
		SCALE: 1:16		
		REVISION: A		


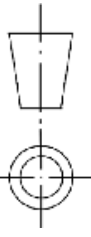
EXPLODED VIEW: BASE-02 SUB-ASSEMBLY

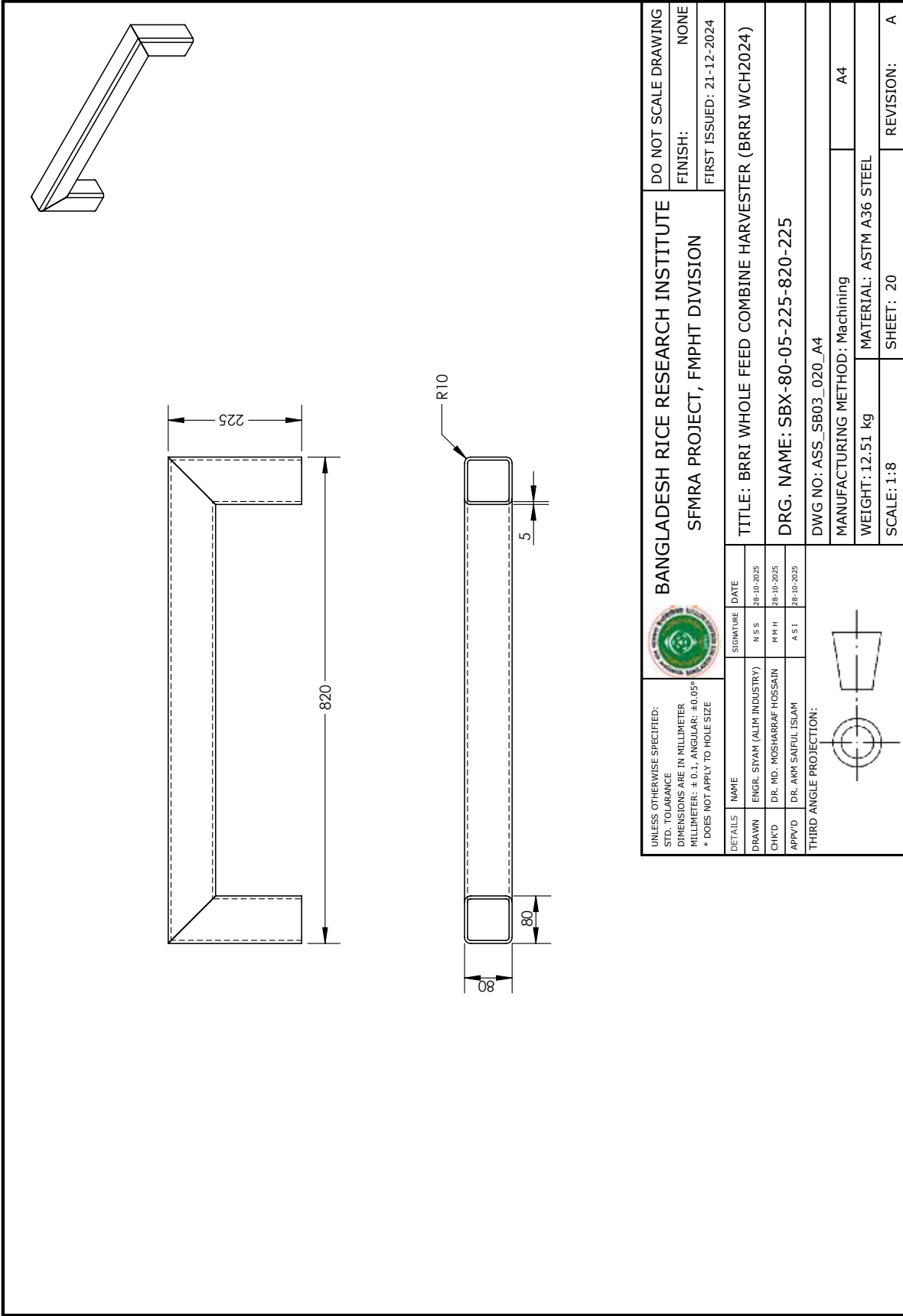


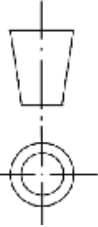
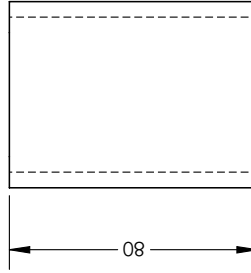
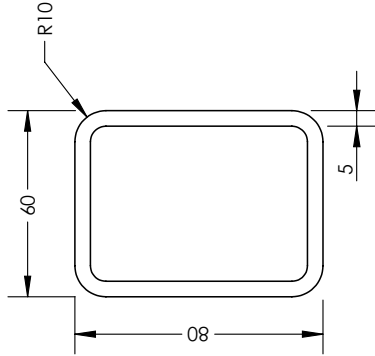
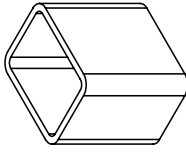
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. SYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Base-02 Sub-Assembly			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_BS02_018_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining, Welding			
THIRD ANGLE PROJECTION:							
				WEIGHT: 89.11 kg MATERIAL:		SCALE: 1:20 SHEET: 18	
				REVISION:		A	


FRONT VIEW AND RIGHT VIEW: BASE-02 SUB-ASSEMBLY

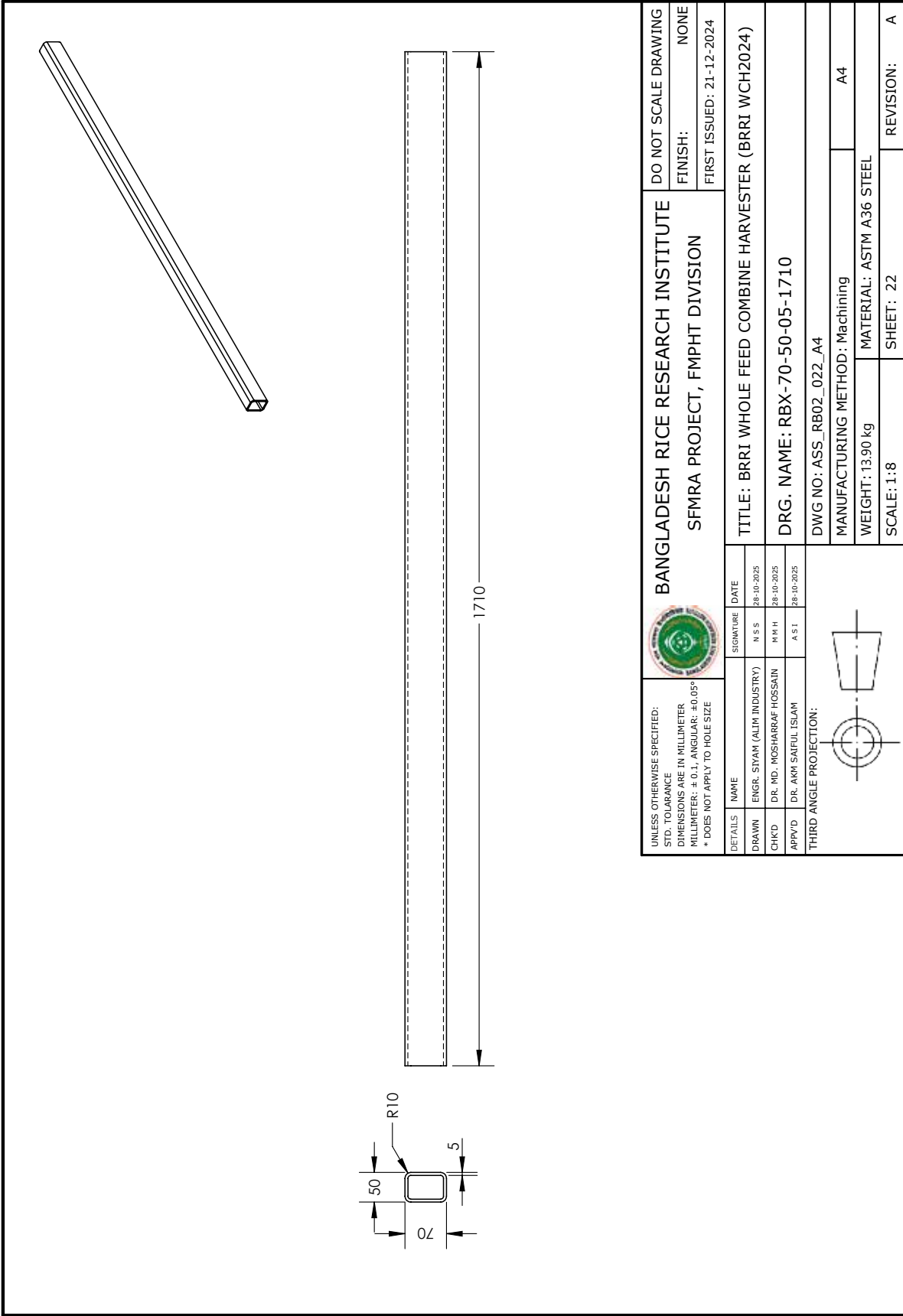


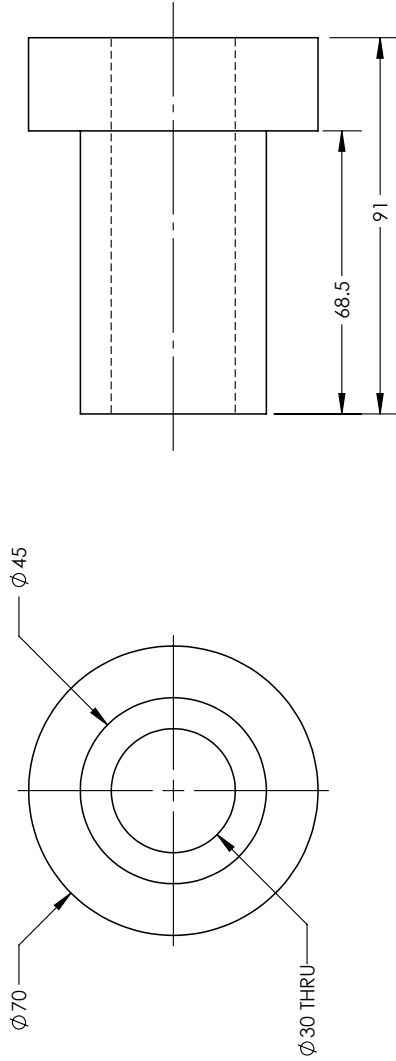
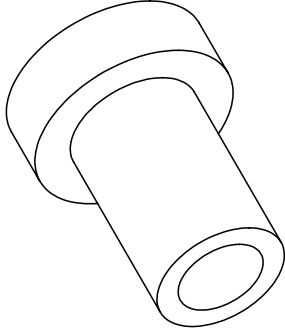
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: Base-02 Sub-Assembly			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	28-10-2025	DWG NO: ASS_BS02_019_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining, Welding			
THIRD ANGLE PROJECTION:							
				WEIGHT: 89.11 kg		MATERIAL:	
				SCALE: 1:12		SHEET: 19	
						REVISION: A	


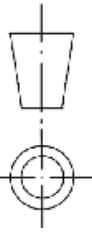




UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	FINISH: NONE FIRST ISSUED: 21-12-2024			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M N H	28-10-2025	DRG. NAME: RBX-80-60-05-80			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	DWG NO: ASS_RB01_021_A4			
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Machining WEIGHT: 775.97 grams MATERIAL: ASTM A36 STEEL			
				SCALE: 1:2		REVISION: A	

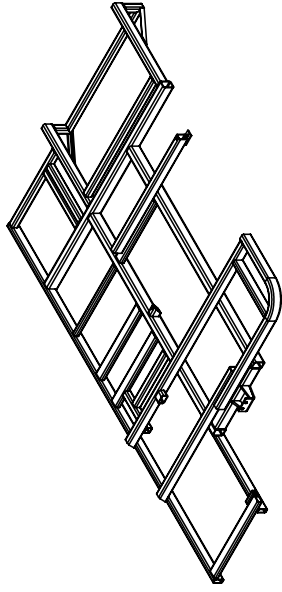



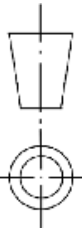


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: Bush-TW-Welded-02			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	28-10-2025	DWG NO: ASS_BTW_023_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining, Welding			
THIRD ANGLE PROJECTION:				WEIGHT: 1.03 kg			
				MATERIAL: ASTM A36 STEEL			
				SCALE: 2:3			
				SHEET: 23			
				REVISION: A			

BILL OF MATERIAL: BASE-03 SUB-ASSEMBLY

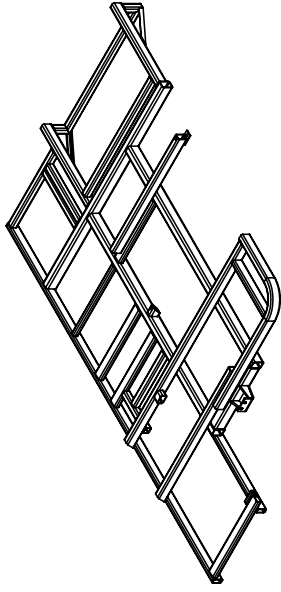
ITEM NO.	PART NAME	PART NUMBER	QTY.	MATERIAL
1	RBX-70-50-05-1640	ASS_RB03_028_A4	2	ASTM A36 STEEL
2	SBX-70-05-460	ASS_SB04_029_A4	1	ASTM A36 STEEL
3	Main Gearbox Base	ASS_MGB_030_A4	1	ASTM A36 STEEL
4	RBX-60-30-04-2710	ASS_RB04_031_A4	1	ASTM A36 STEEL
5	RBX-60-30-04-575	ASS_RB05_032_A4	1	ASTM A36 STEEL
6	SBX-30-04-80	ASS_SB05_033_A4	1	ASTM A36 STEEL
7	RBX-60-30-04-660	ASS_RB06_034_A4	1	ASTM A36 STEEL
8	RBX-60-40-04-990	ASS_RB07_035_A4	1	ASTM A36 STEEL
9	RBX-60-40-04-670-RD165-330	ASS_RB08_036_A4	1	ASTM A36 STEEL
10	RBX-60-30-04-410	ASS_RB09_037_A4	1	ASTM A36 STEEL
11	RBX-60-40-04-1540	ASS_RB10_038_A4	1	ASTM A36 STEEL
12	SBX-40-04-280	ASS_SB06_039_A4	1	ASTM A36 STEEL
13	SBX-40-04-400	ASS_SB07_040_A4	1	ASTM A36 STEEL
14	RBX-60-30-04-525	ASS_RB11_041_A4	2	ASTM A36 STEEL
15	RBX-30-30-04-525	ASS_RB12_042_A4	1	ASTM A36 STEEL
16	RBX-70-50-05-1528	ASS_RB13_043_A4	1	ASTM A36 STEEL


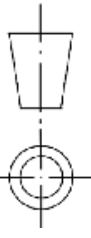


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
		TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)		FINISH: NONE FIRST ISSUED: 21-12-2024
DETAILS NAME DATE DRAWN ENGR. SIYAM (ALUM. INDUSTRY) N S S 2-10-2025 CHK'D DR. MD. MOSHARRAF HOSSAIN M R H 2-10-2025 APP'VD DR. AKH SAIFUL ISLAM A S I 2-10-2025		DRG. NAME: Base-03 Sub-Assembly DWG NO.: ASS_BS03_024_A4		
THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: Machining, Bending, Welding WEIGHT: 92.4 kg MATERIAL: A4 SCALE: 1:22 SHEET: 24 REVISION: A		

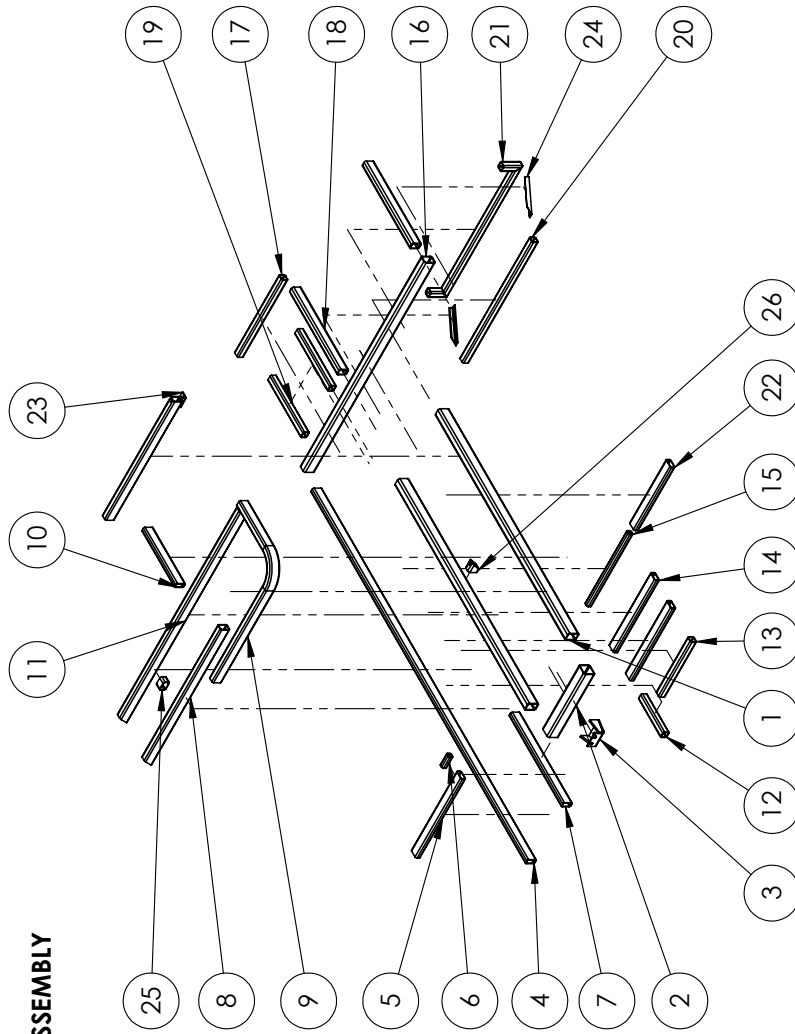
BILL OF MATERIAL: BASE-03 SUB-ASSEMBLY


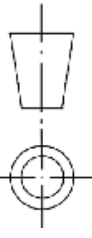
ITEM NO.	PART NAME	PART NUMBER	QTY.	MATERIAL
17	SBX-40-04-563	ASS_SB08_044_A4	1	ASTM A36 STEEL
18	RBX-60-40-04-600	ASS_RB14_045_A4	2	ASTM A36 STEEL
19	SBX-40-04-415	ASS_SB09_046_A4	2	ASTM A36 STEEL
20	SBX-40-04-880	ASS_SB10_047_A4	1	ASTM A36 STEEL
21	SBX-40-04-120-960-120	ASS_SB11_048_A4	1	ASTM A36 STEEL
22	RBX-60-30-04-460	ASS_RB15_049_A4	1	ASTM A36 STEEL
23	RBX-60-40-04-865	ASS_RB16_050_A4	1	ASTM A36 STEEL
24	ANG-25-25-04-300	ASS_AB01_051_A4	2	ASTM A36 STEEL
25	RBX-60-40-04-40	ASS_RB17_052_A4	1	ASTM A36 STEEL
26	RBX-60-40-04-60	ASS_RB18_053_A4	1	ASTM A36 STEEL

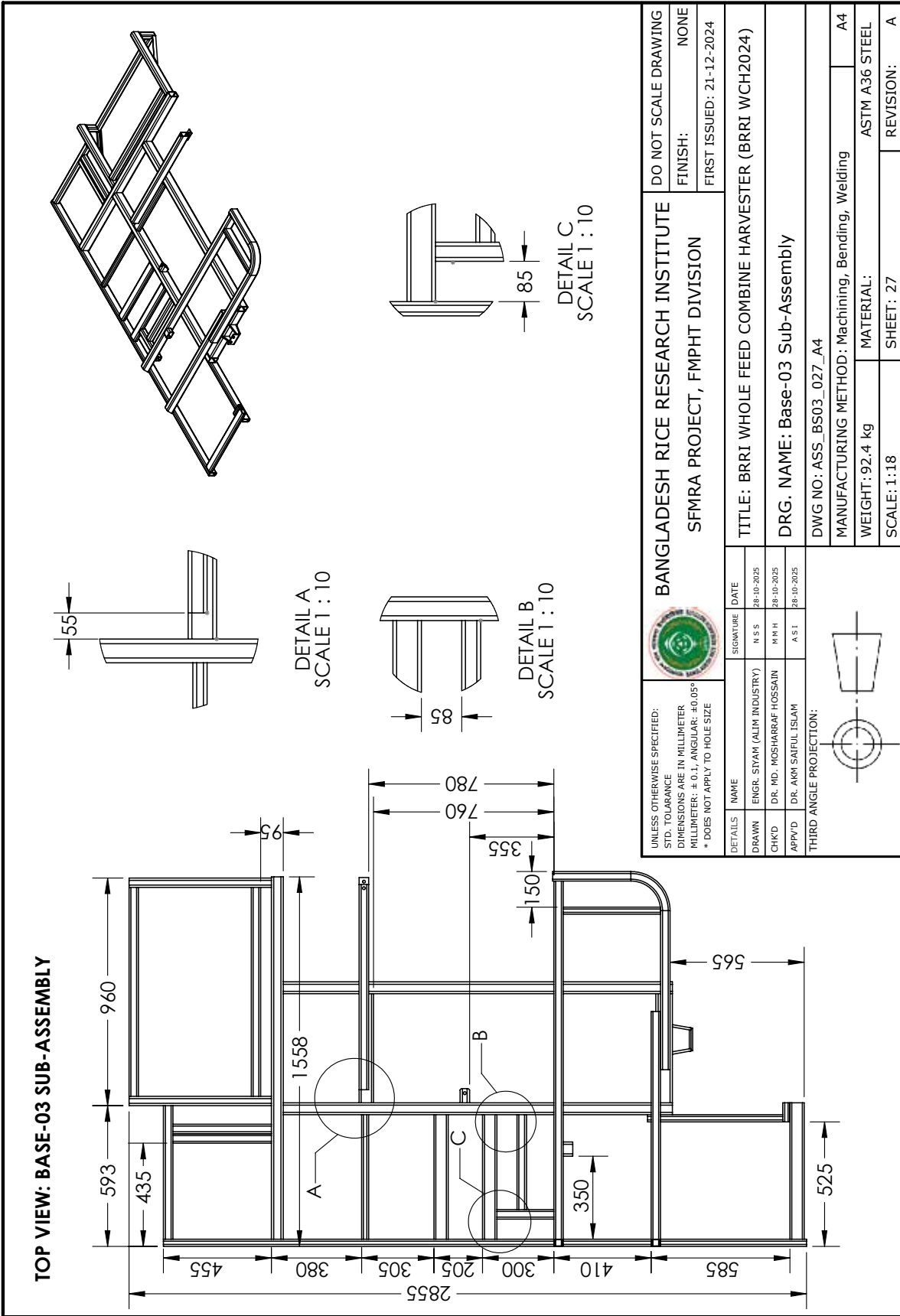


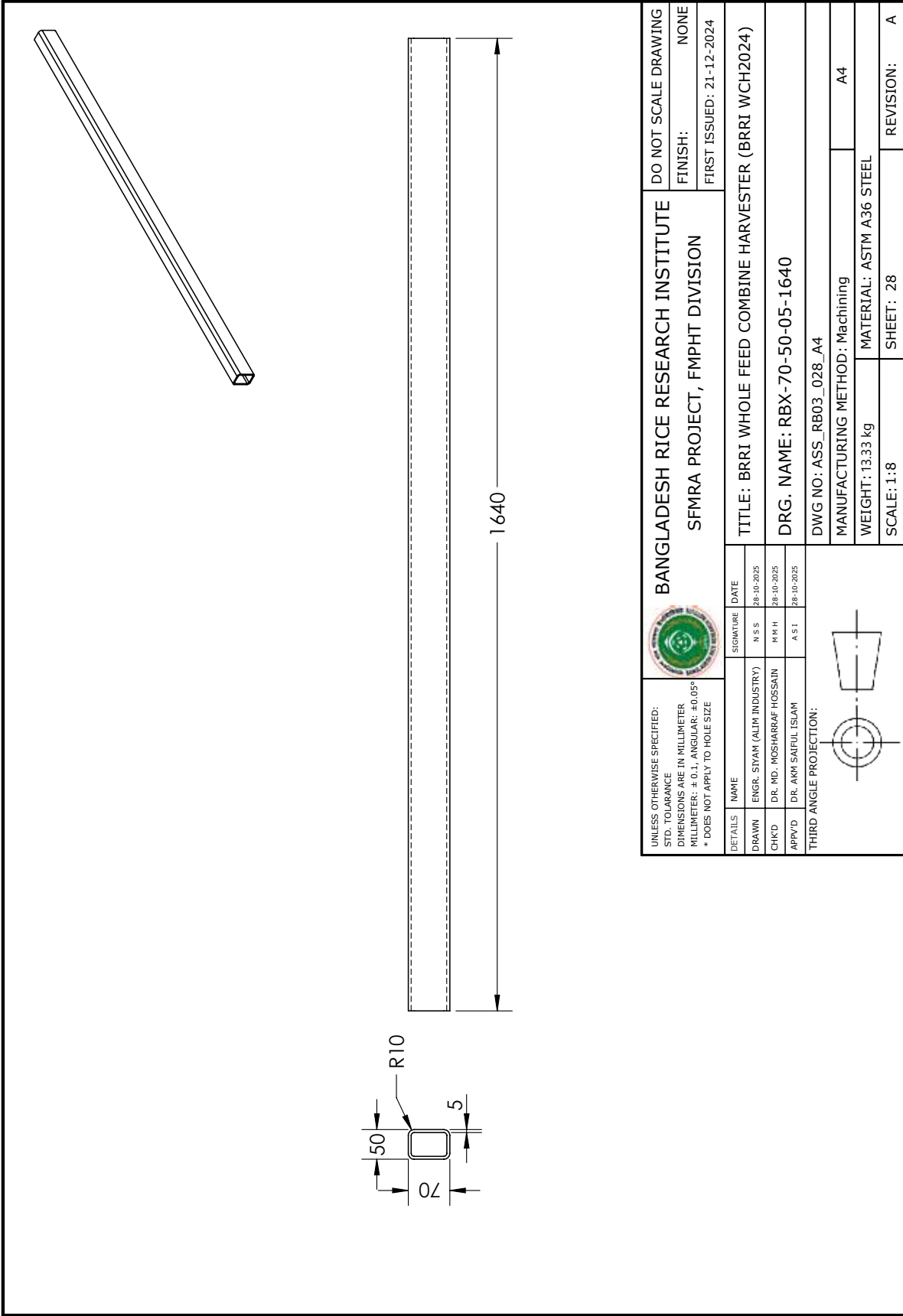
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
				FINISH: NONE
				FIRST ISSUED: 21-12-2024
DETAILS NAME DATE DRAWN ENGR. SIYAM (ALUM. INDUSTRY) N S S 2-10-2025 CHK'D DR. MD. MOSHARRAF HOSSAIN M N H 2-10-2025 APP'VD DR. AKH. SAIFUL ISLAM A S I 2-10-2025		TITLE: BRR I WHOLE FEED COMBINE HARVESTER (BRR I WCH2024)		
		DRG. NAME: Base-03 Sub-Assembly		
		DWG NO: ASS_BS03_025_A4		
		MANUFACTURING METHOD: Machining, Bending, Welding		
		WEIGHT: 92.4 kg MATERIAL: A4		
		SCALE: 1:22 SHEET: 25		REVISION: A

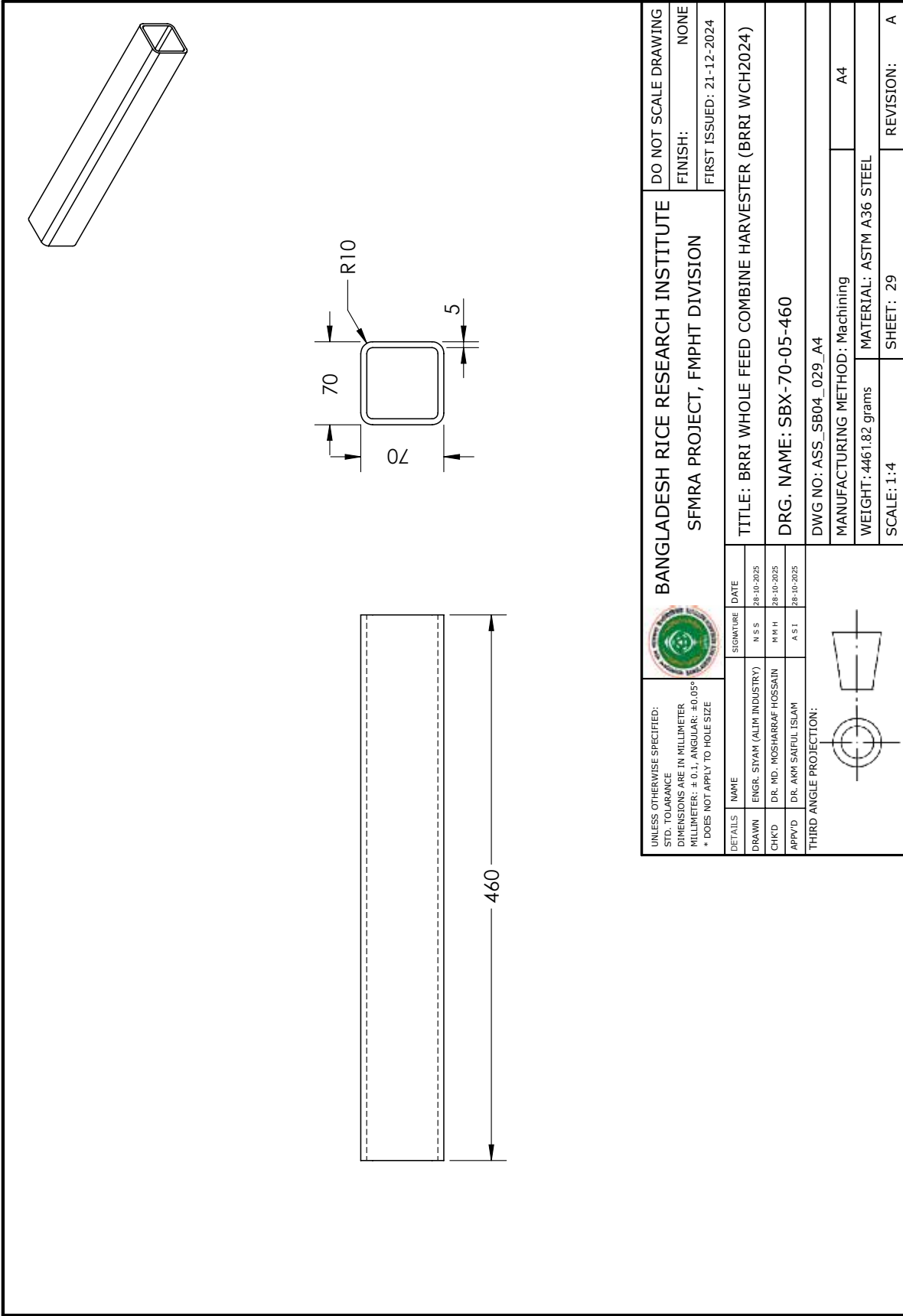
EXPLODED VIEW: BASE-03 SUB-ASSEMBLY

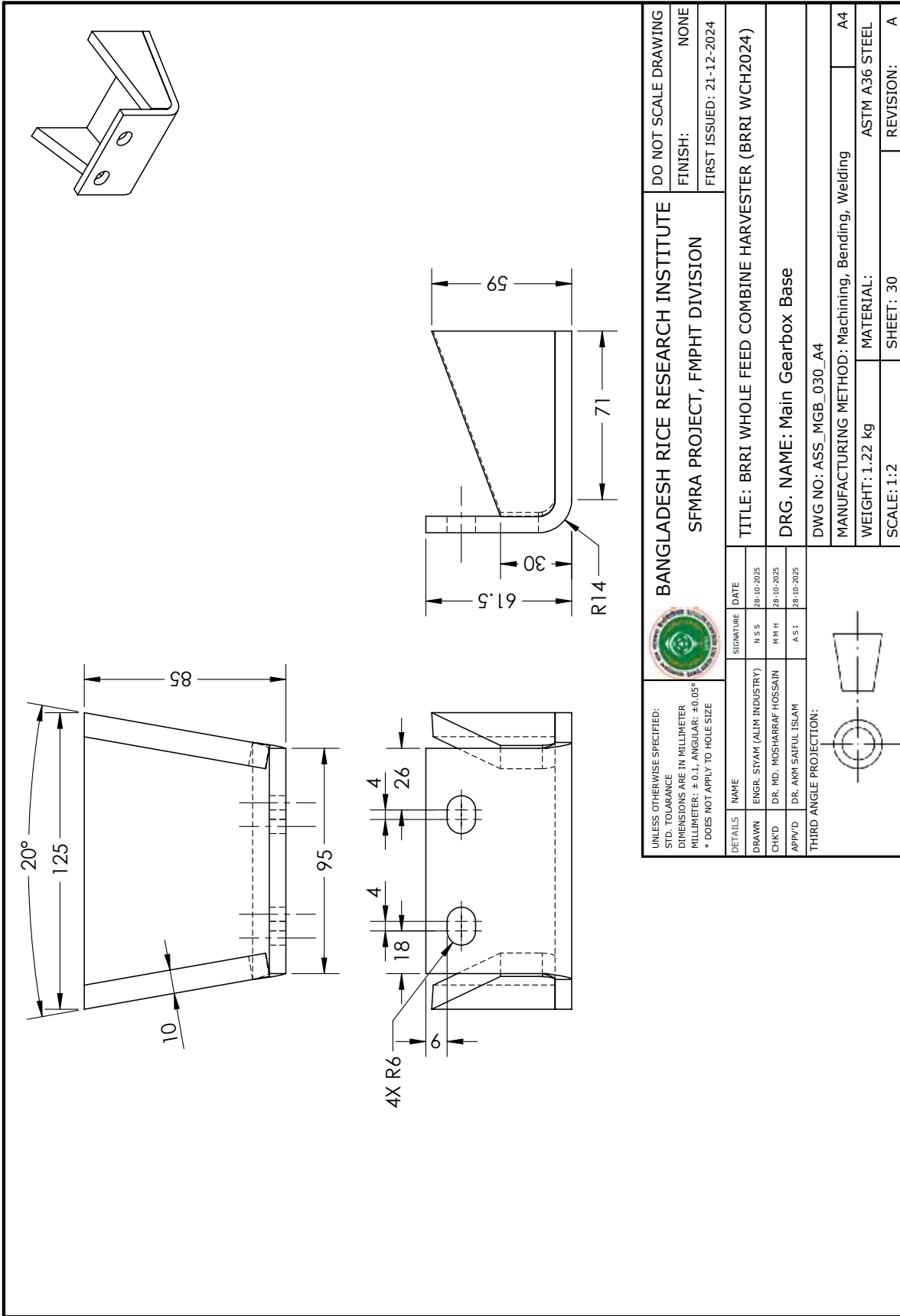


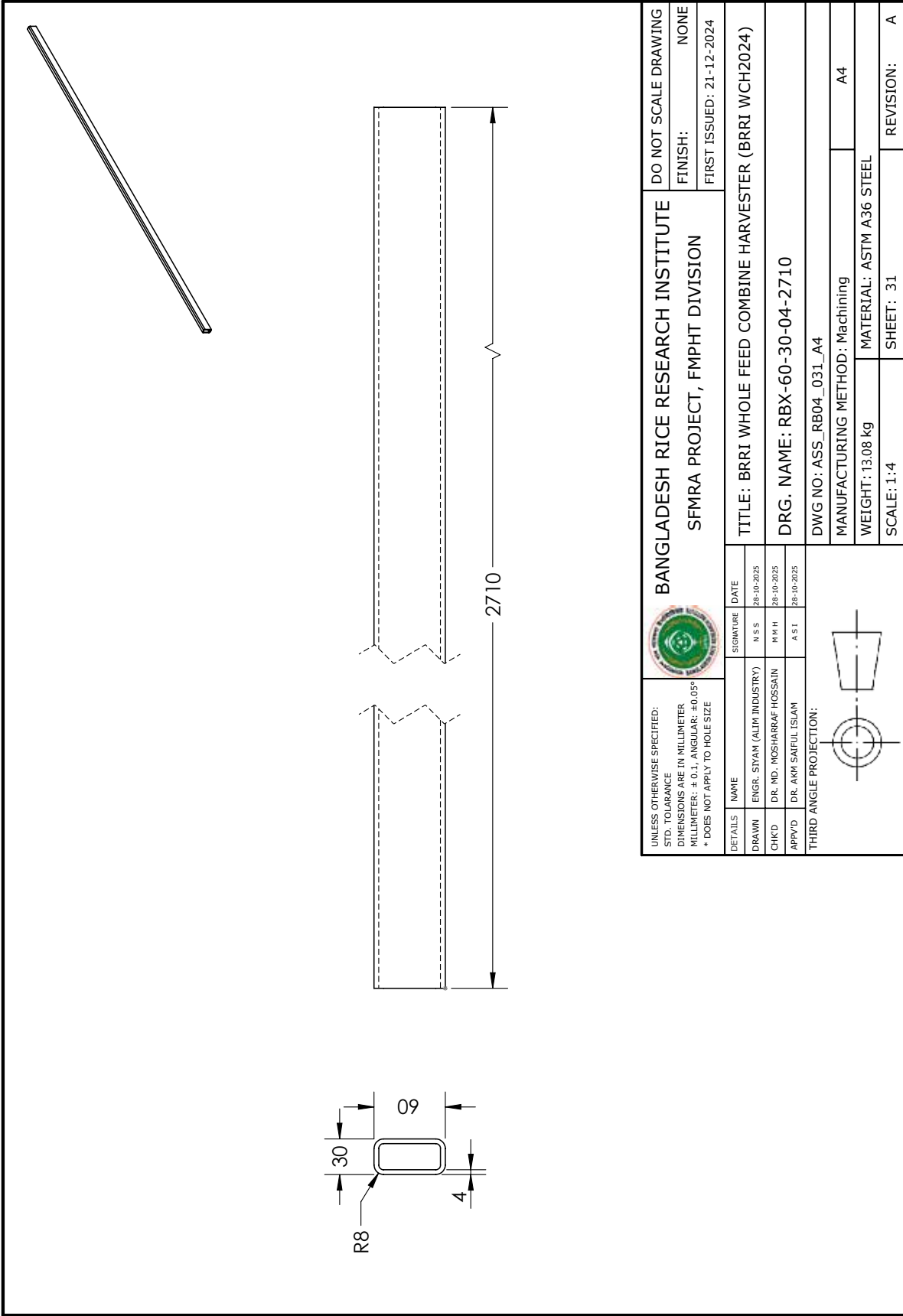
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Base-03 Sub-Assembly			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_BS03_026_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining, Bending, Welding			
THIRD ANGLE PROJECTION: 				WEIGHT: 92.4 kg SCALE: 1:24		MATERIAL: ASTM A36 STEEL REVISION: A	


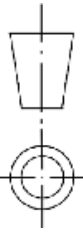


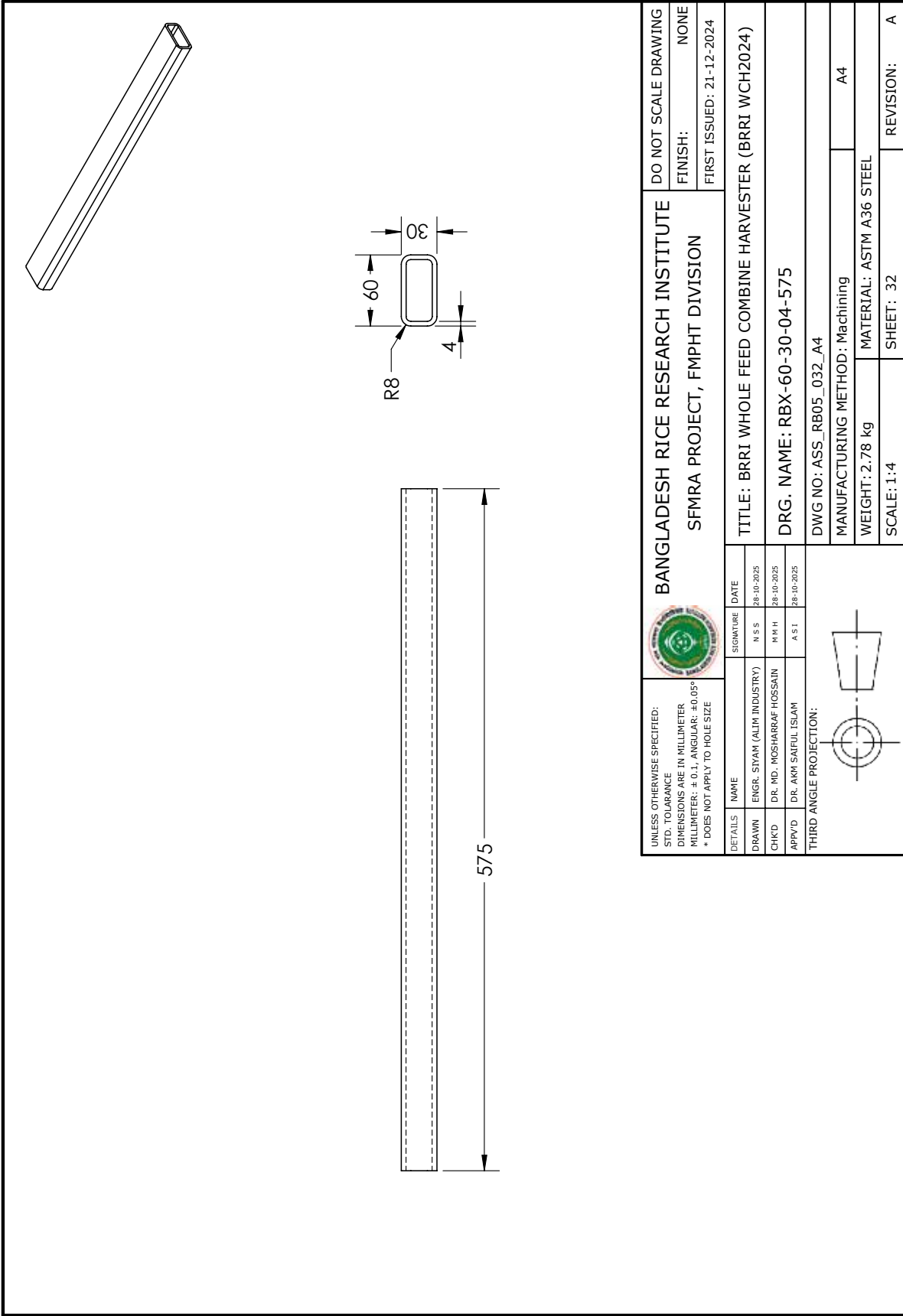


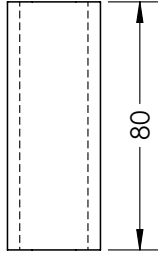
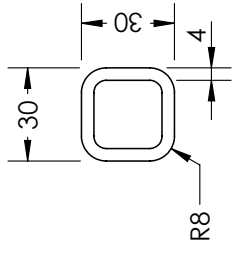
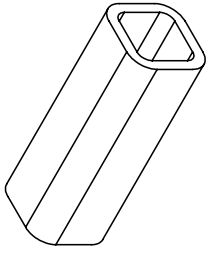



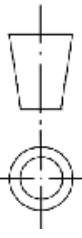


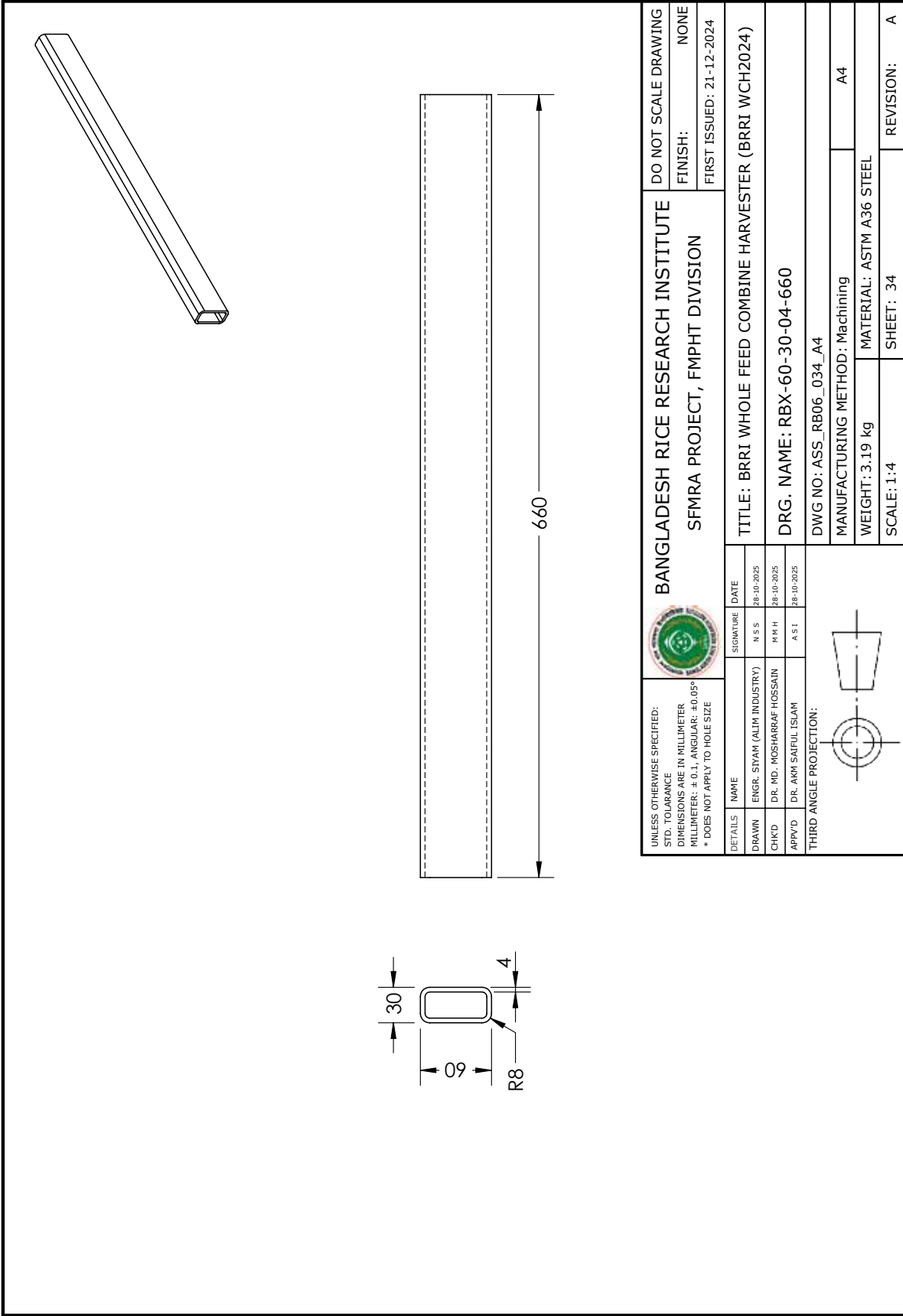


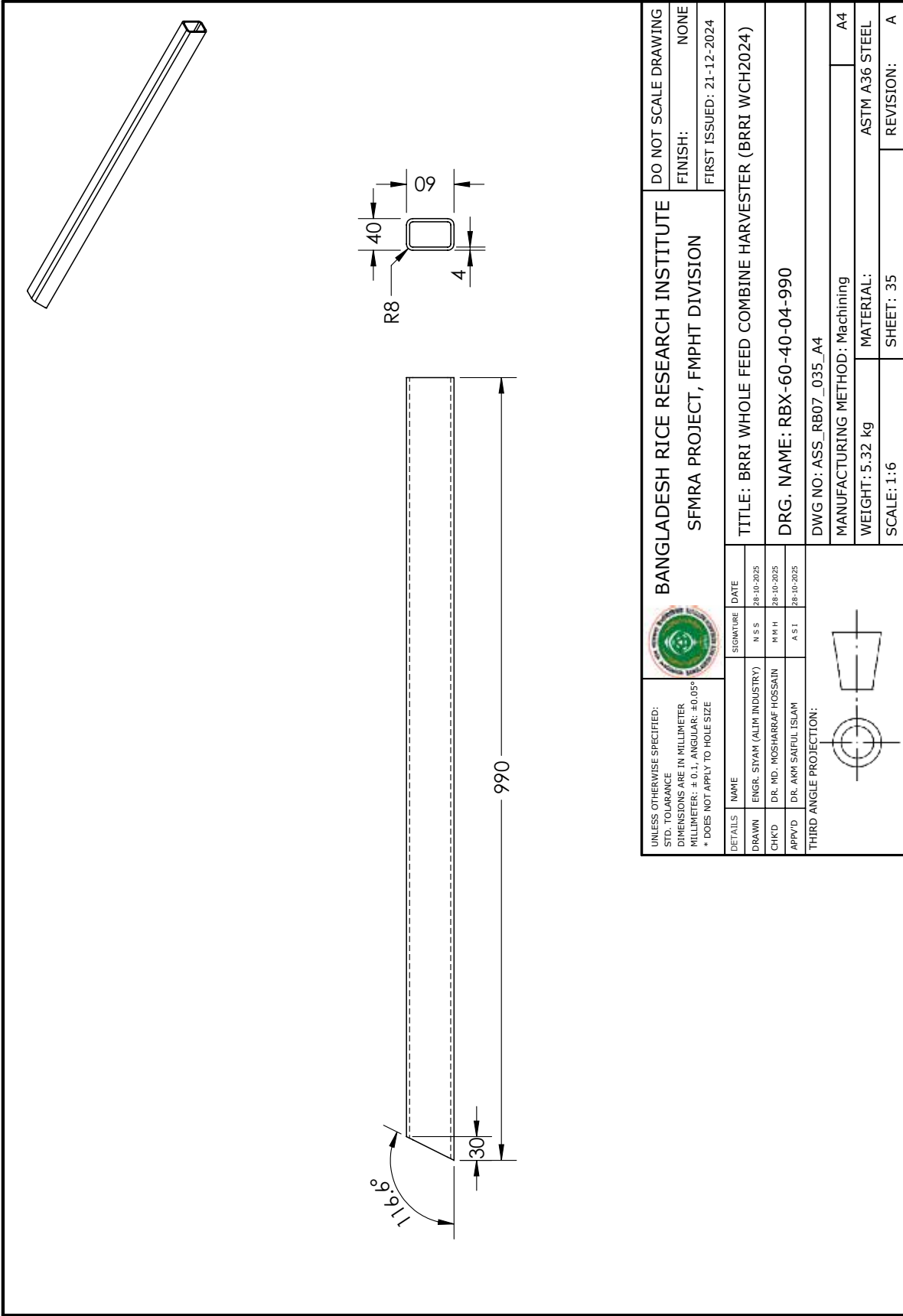
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: RBX-60-30-04-2710			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	28-10-2025	DWG NO: ASS_RB04_031_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:						WEIGHT: 13.08 kg	
				SCALE: 1:4		REVISION: A	
				MATERIAL: ASTM A36 STEEL		SHEET: 31	

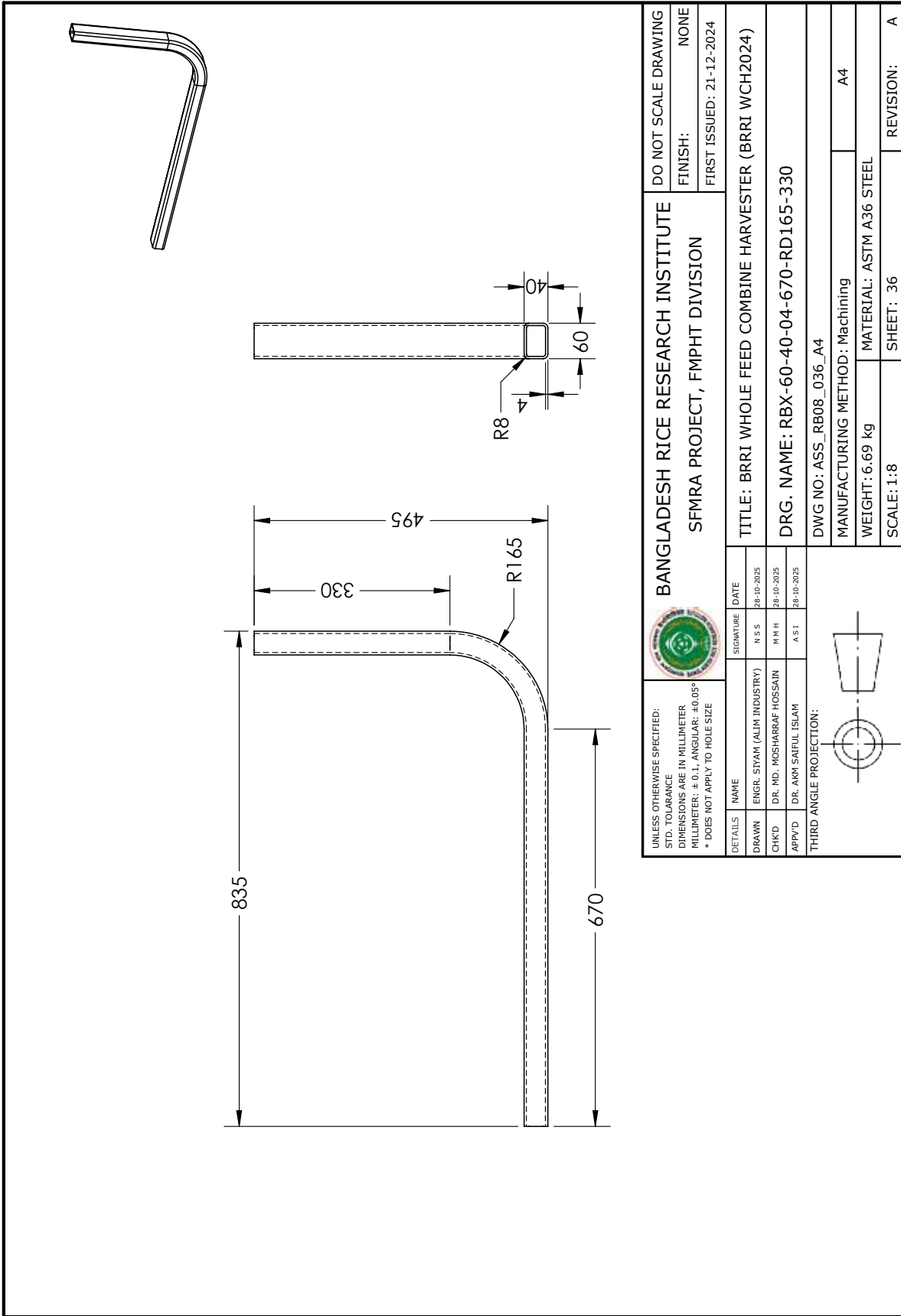


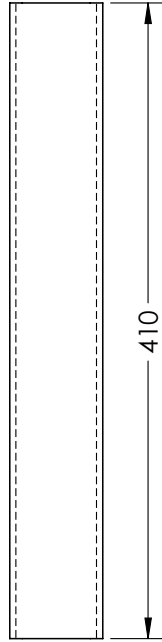
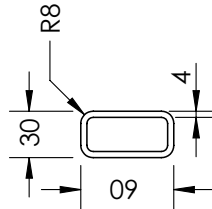
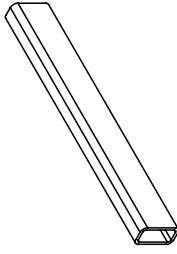



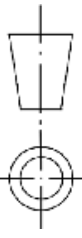
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: SBX-30-04-80			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	28-10-2025	DWG NO: ASS_SB05_033_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:							
				WEIGHT: 235.37 grams		MATERIAL: ASTM A36 STEEL	
				SCALE: 1:2		SHEET: 33	
				REVISION: A		FINISH: NONE	
				FIRST ISSUED: 21-12-2024			

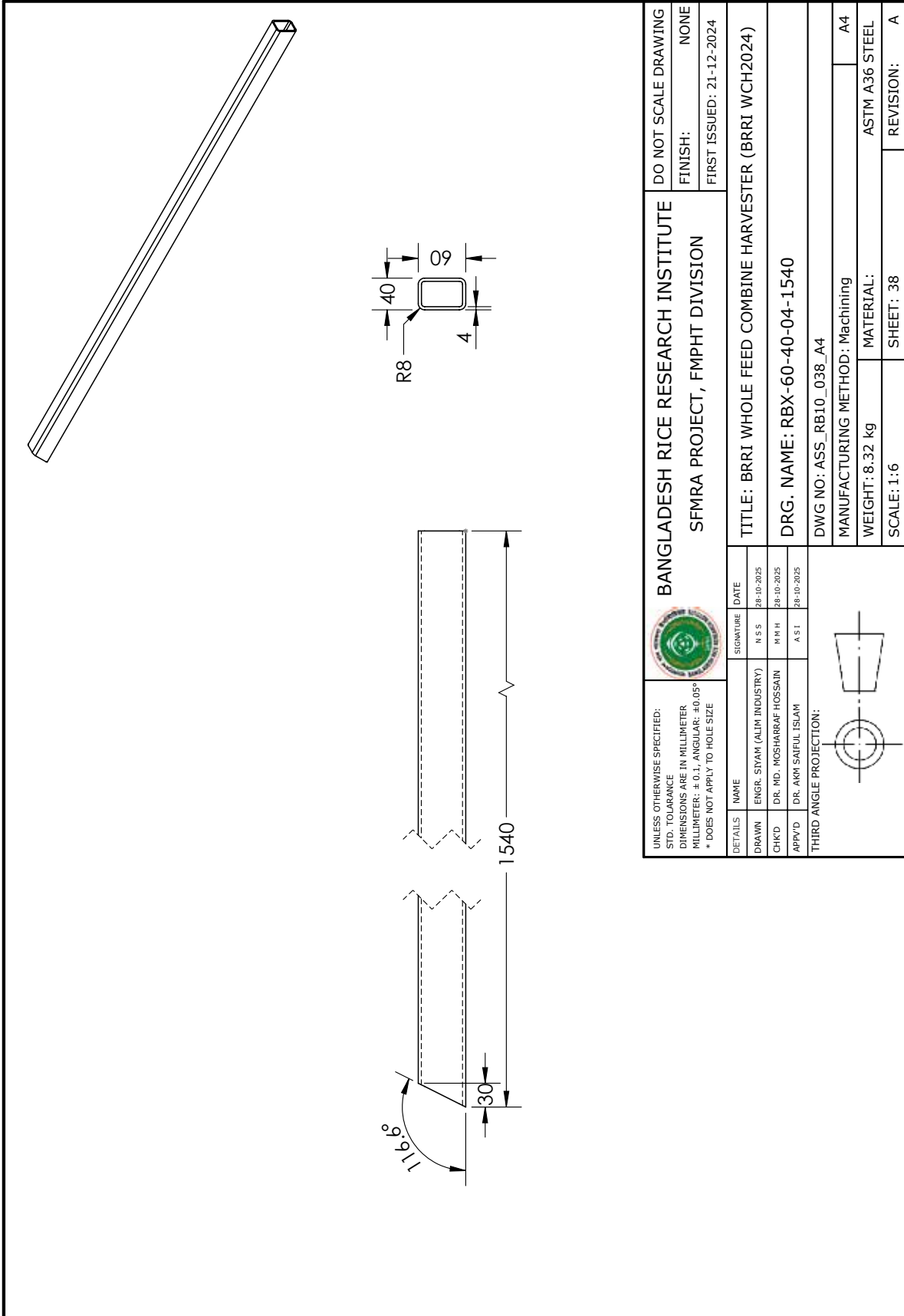



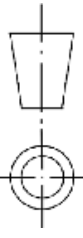


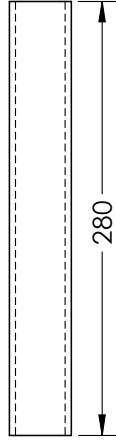
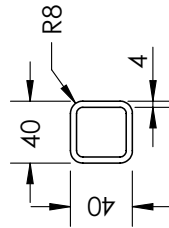
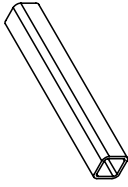



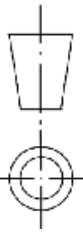


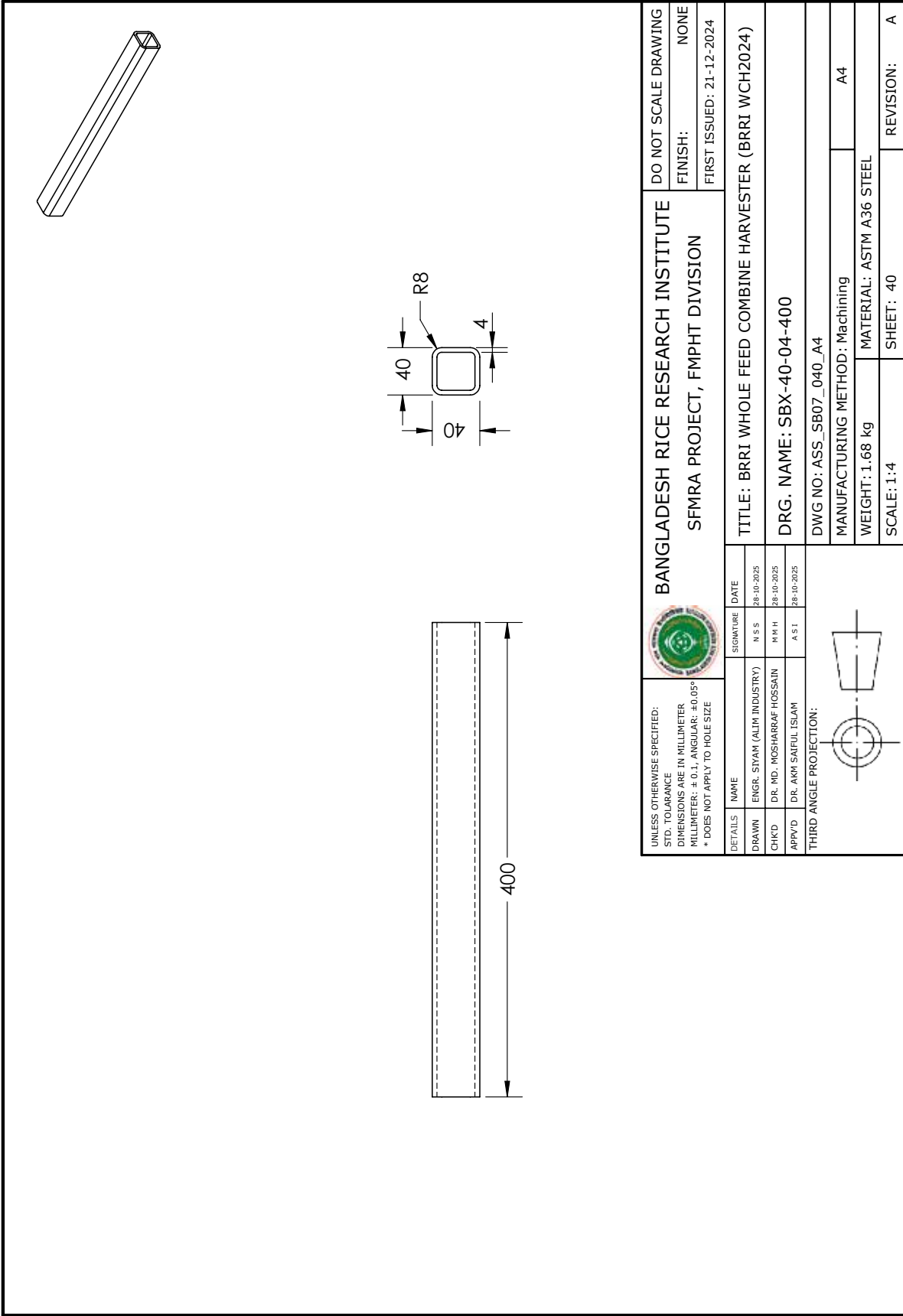
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	28-10-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	
THIRD ANGLE PROJECTION:				
		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		
		DRG. NAME: RBX-60-30-04-410		
		DWG NO: ASS_RB09_037_A4		
		MANUFACTURING METHOD: Machining		
		WEIGHT: 1.98 kg		
		MATERIAL: ASTM A36 STEEL		
		SCALE: 1:4		
		SHEET: 37		
		REVISION: A		

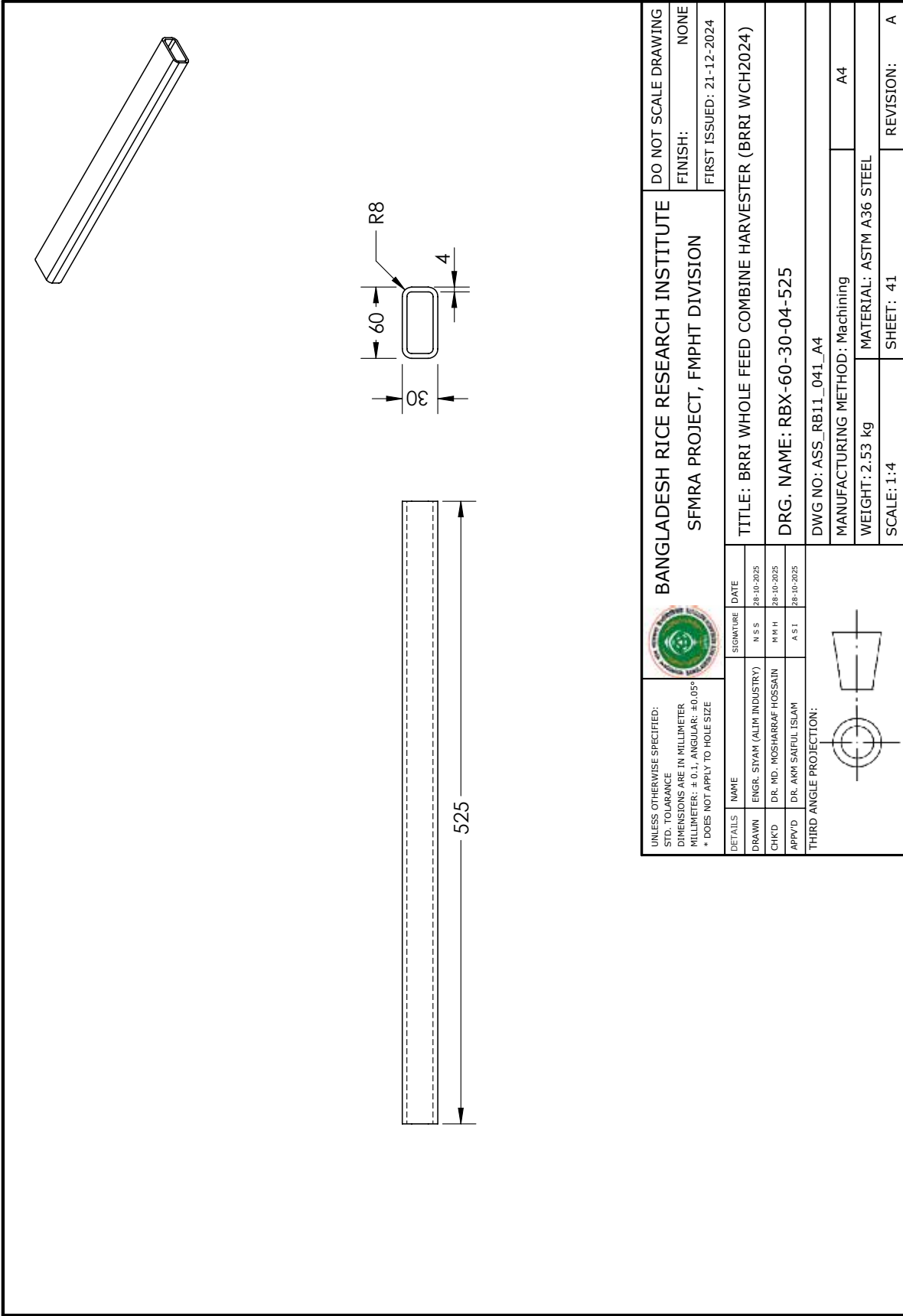


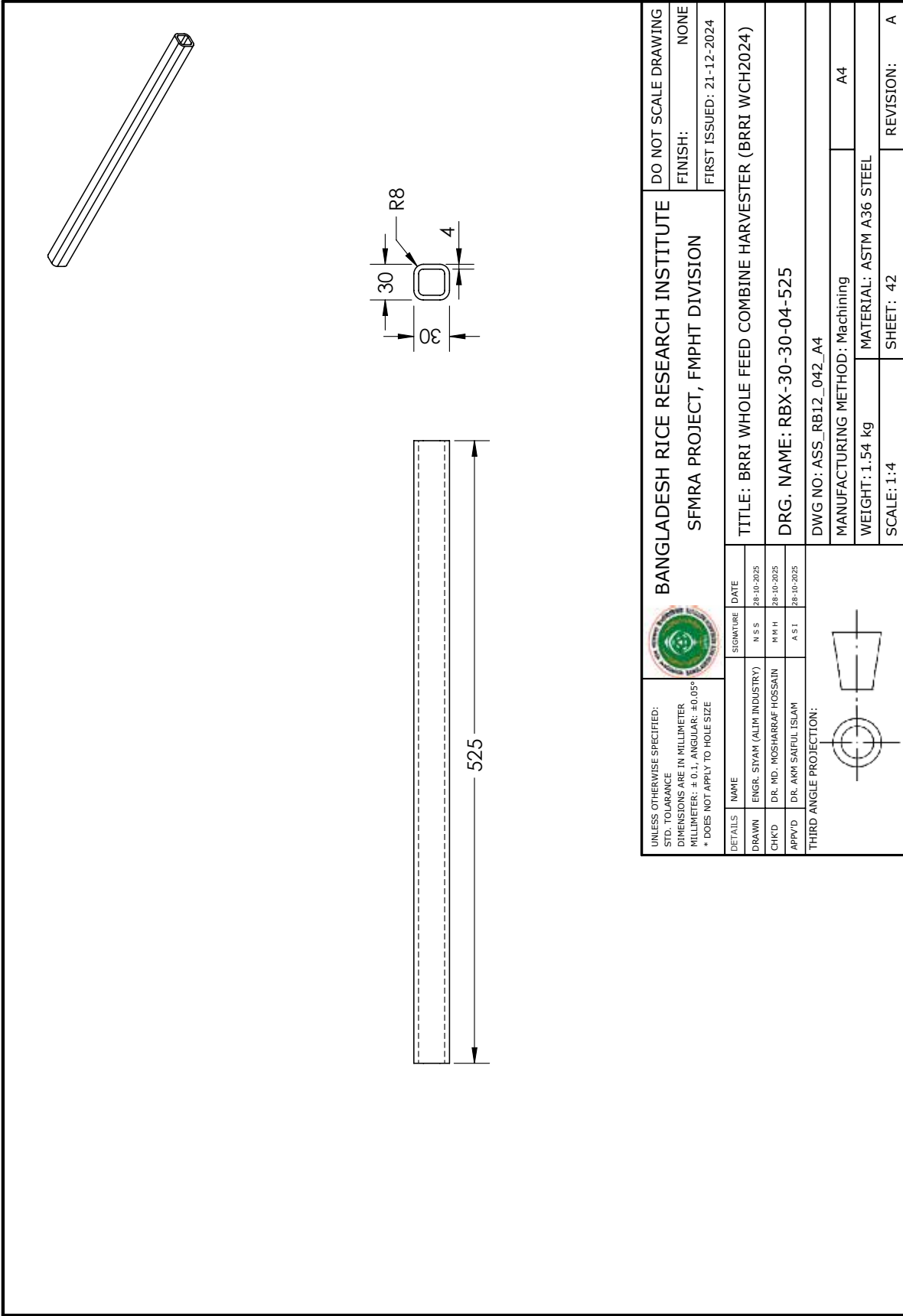
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: RBX-60-40-04-1540			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M N H	28-10-2025	DWG NO: ASS_RB10_038_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:						WEIGHT: 8.32 kg SCALE: 1:6 MATERIAL: ASTM A36 STEEL SHEET: 38 REVISION: A	




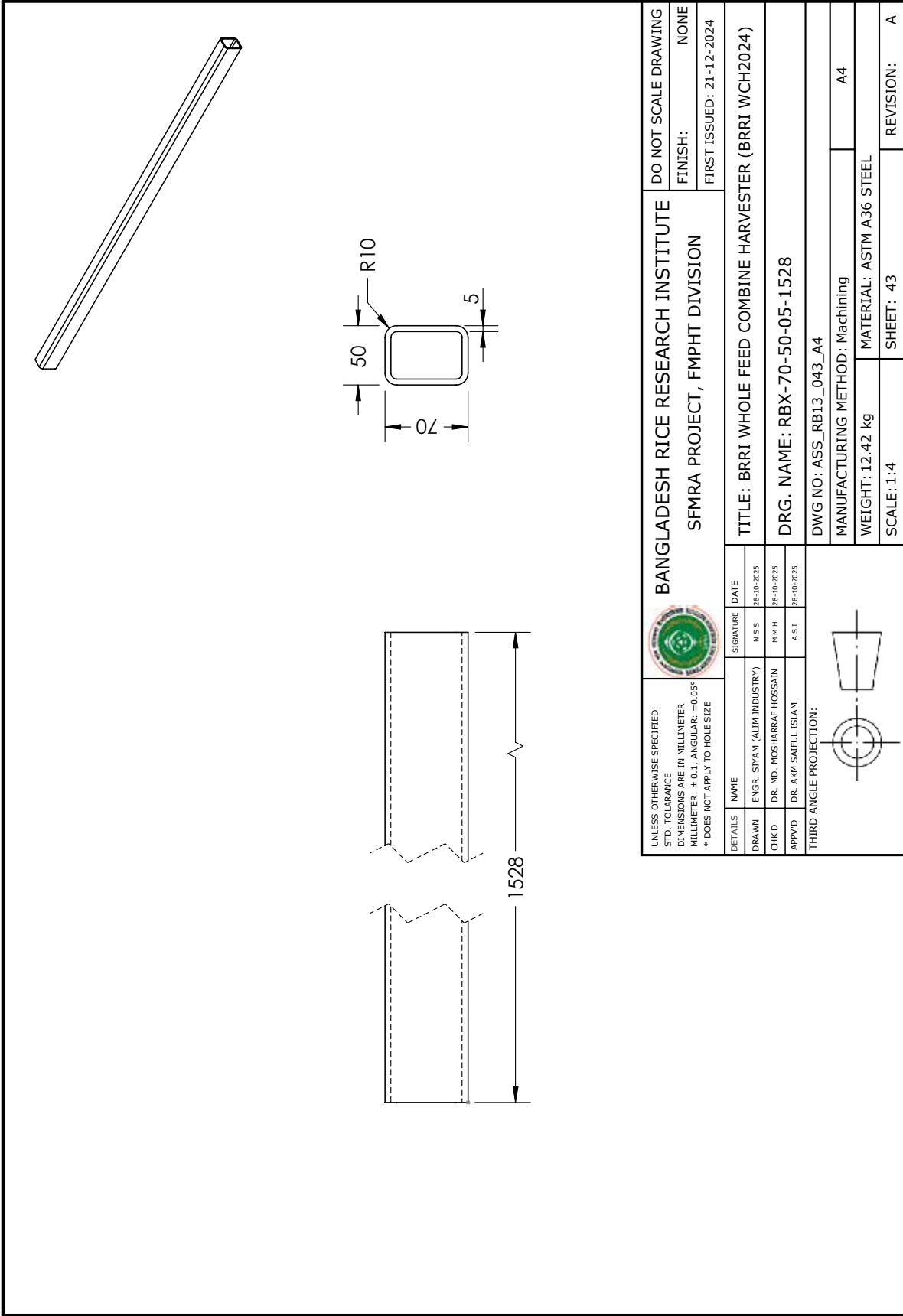
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME SIGNATURE DATE DRAWN ENGR. SIYAM (ALIM INDUSTRY) N S S 28-10-2025 CHK'D DR. MD. MOSHARRAF HOSSAIN M M H 28-10-2025 APP'VD DR. AKM SAIFUL ISLAM A S I 28-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		DRG. NAME: SBX-40-04-280		DWG NO: ASS_SB06_039_A4	
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Machining		A4	
				WEIGHT: 1.18 kg		MATERIAL: ASTM A36 STEEL	
				SCALE: 1:4		SHEET: 39	
						REVISION: A	


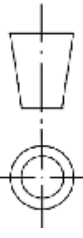


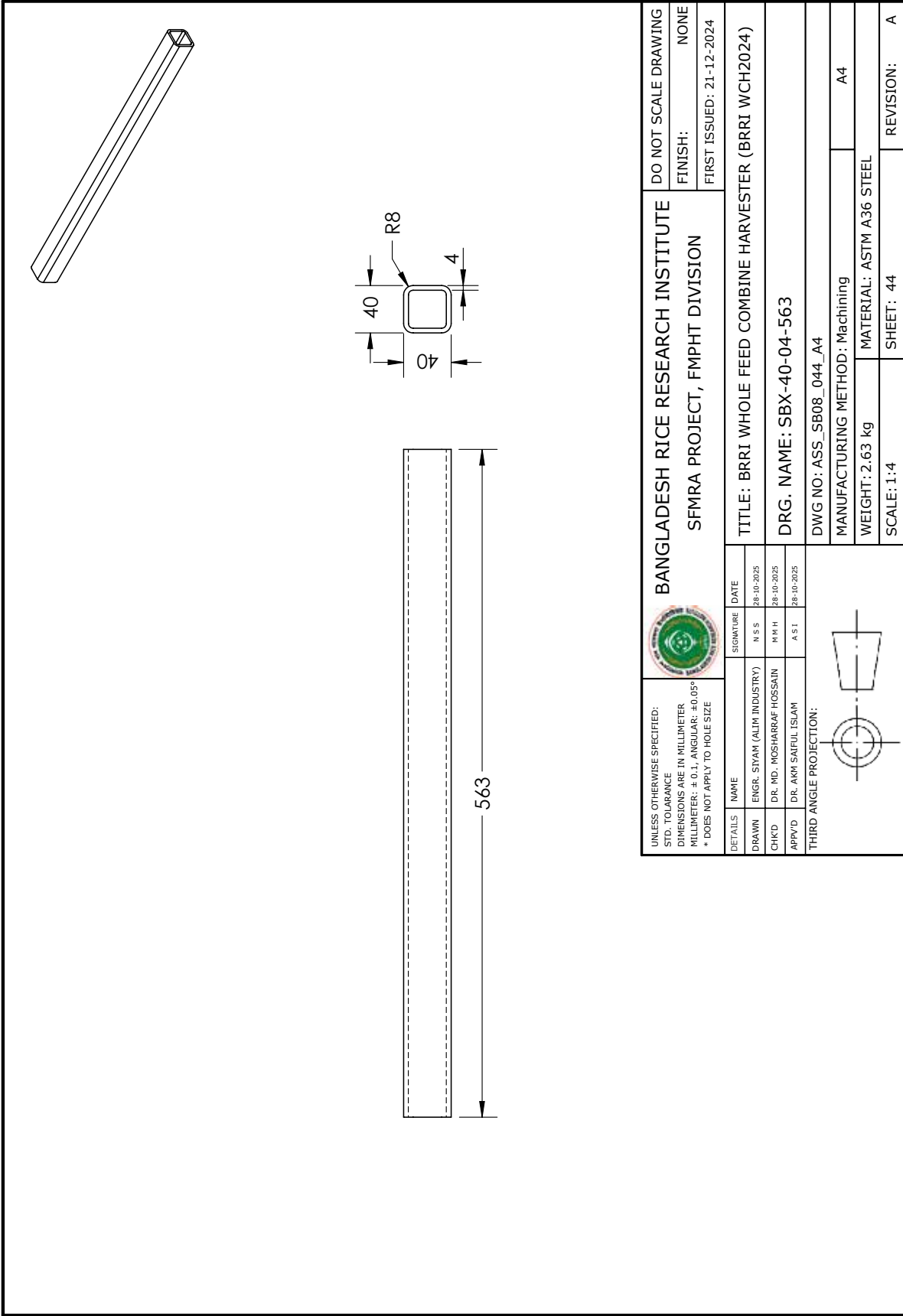


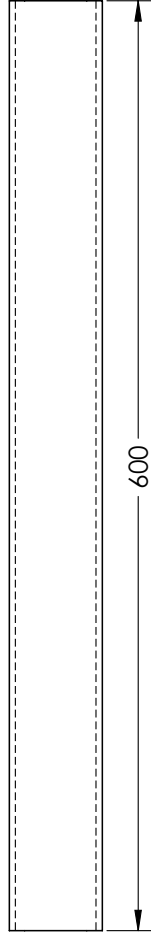
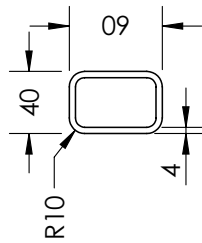
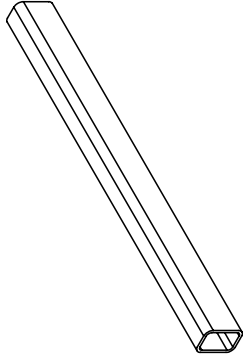



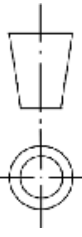
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)		FINISH:	NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: RBX-30-30-04-525		FIRST ISSUED:	21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	28-10-2025	DWG NO: ASS_RB12_042_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:				WEIGHT: 1.54 kg		REVISION: A	
				SCALE: 1:4		SHEET: 42	
				MATERIAL: ASTM A36 STEEL			

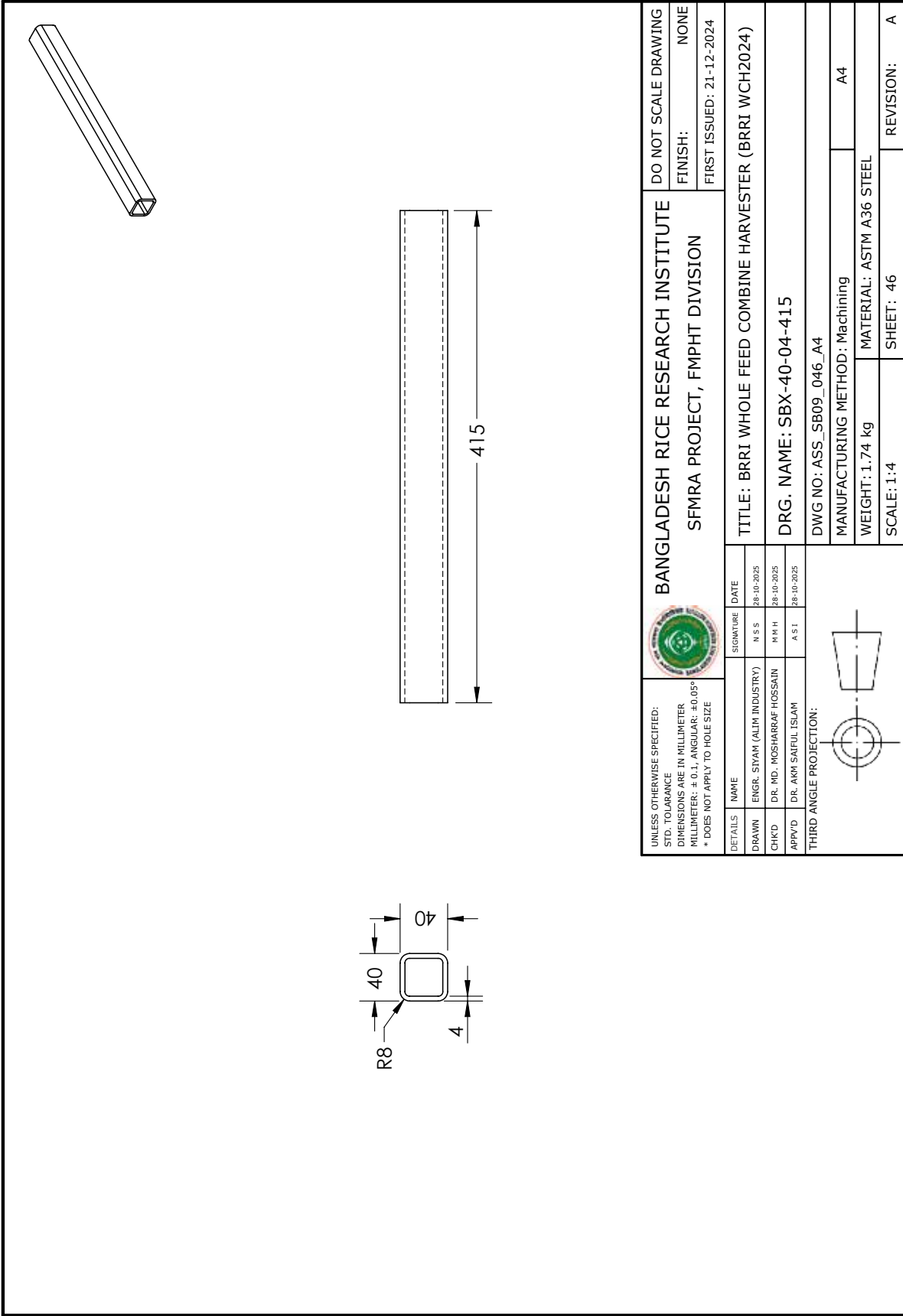


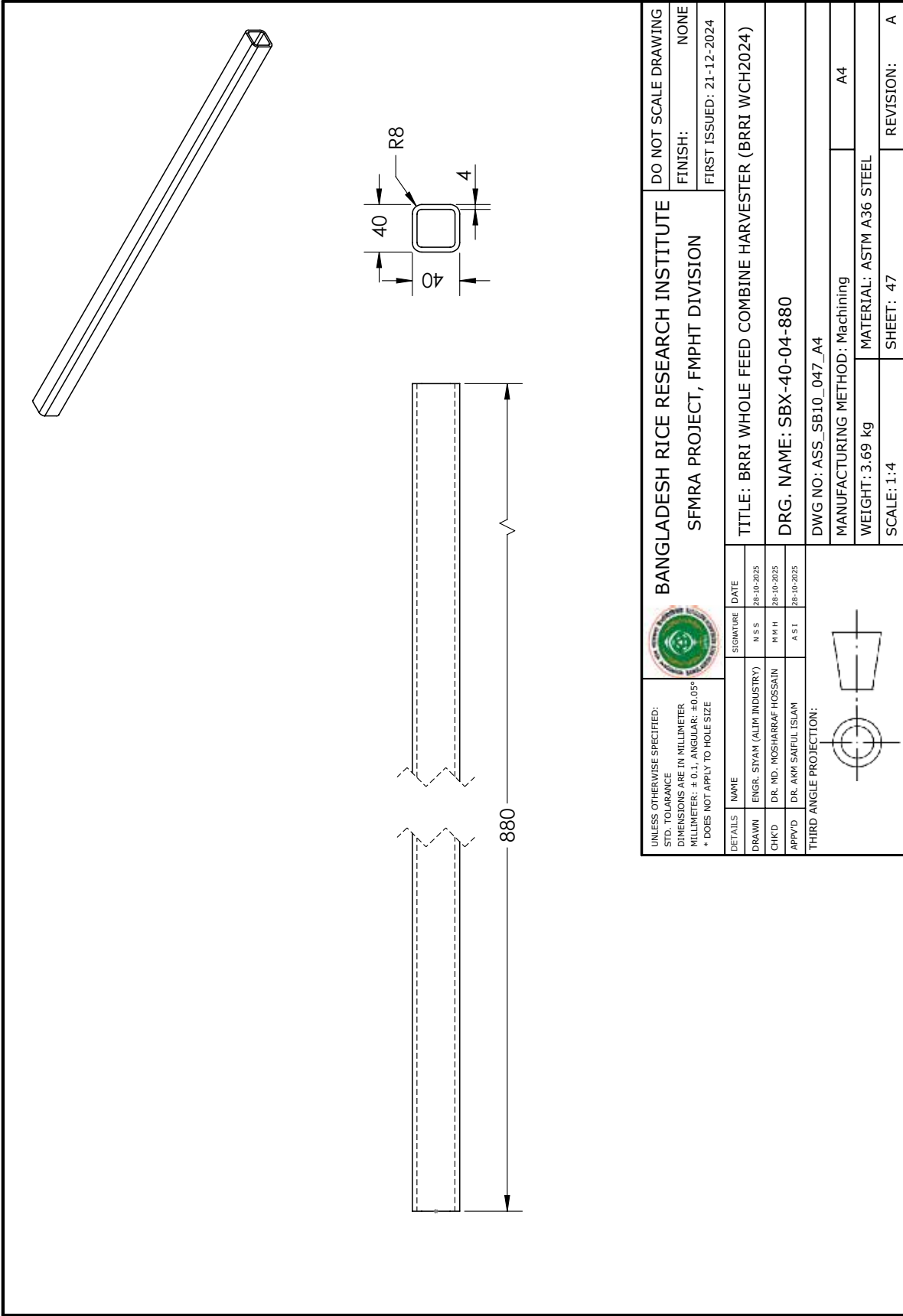
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: RBX-70-50-05-1528			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	28-10-2025	DWG NO: ASS_RB13_043_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:						WEIGHT: 12.42 kg	
				MATERIAL: ASTM A36 STEEL		REVISION: A	
				SCALE: 1:4		SHEET: 43	


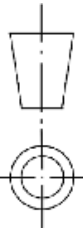


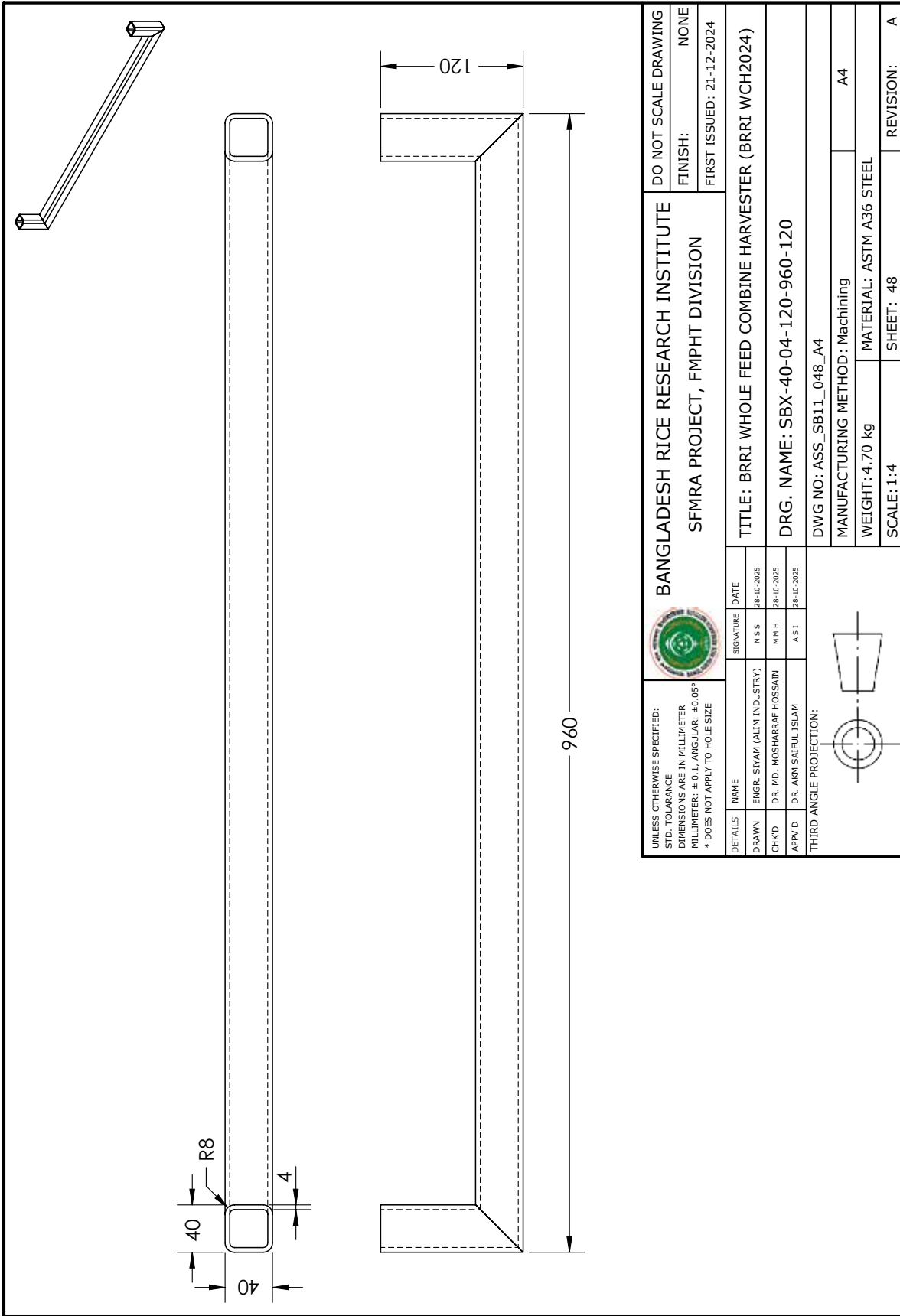


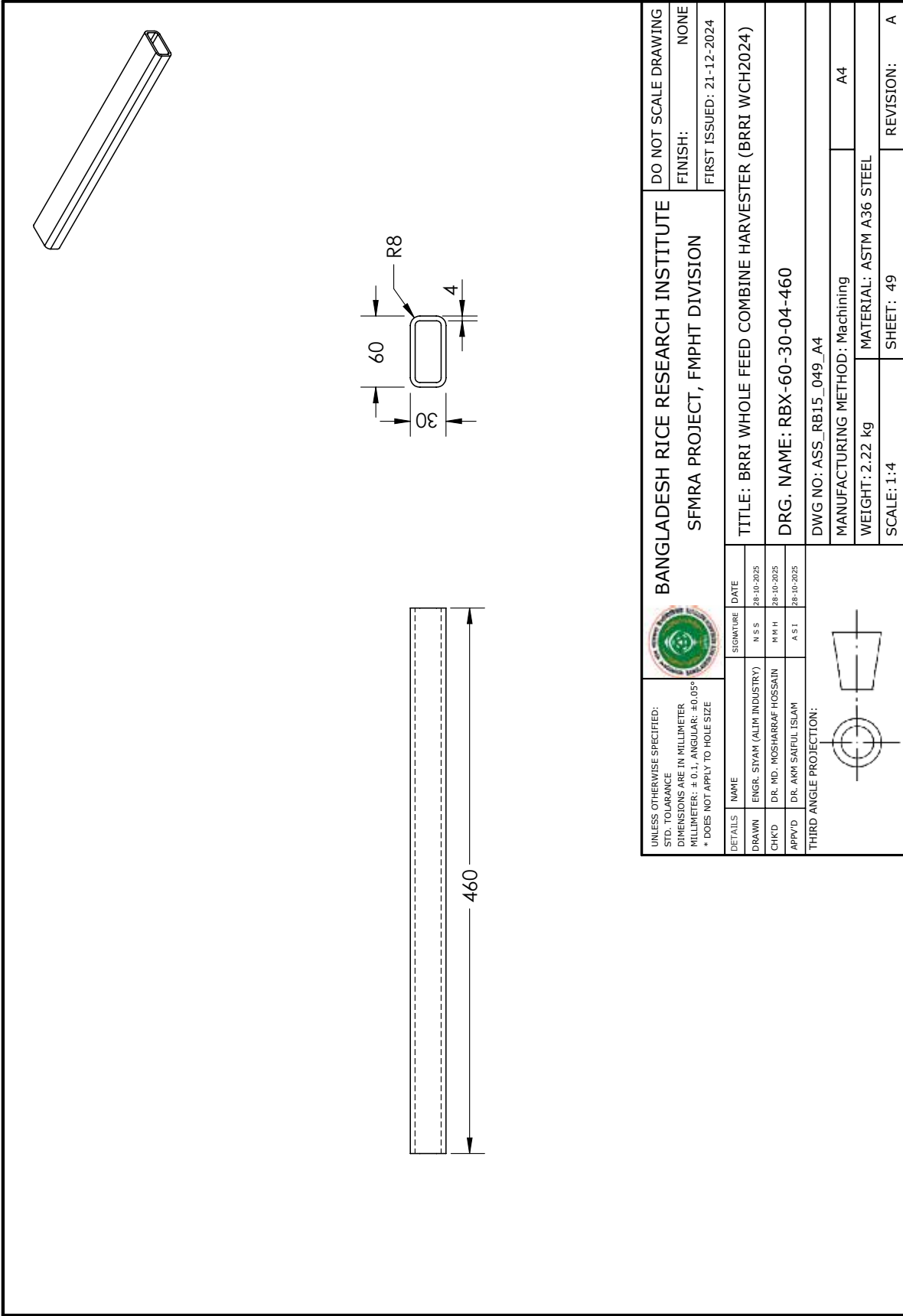
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	28-10-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	
THIRD ANGLE PROJECTION:		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		
		DRG. NAME: RBX-60-40-04-600		
		DWG NO: ASS_RB14_045_A4		
		MANUFACTURING METHOD: Machining		
		WEIGHT: 3.21 kg		
		MATERIAL: ASTM A36 STEEL		
		SCALE: 1:4		
		SHEET: 45		
		REVISION: A		

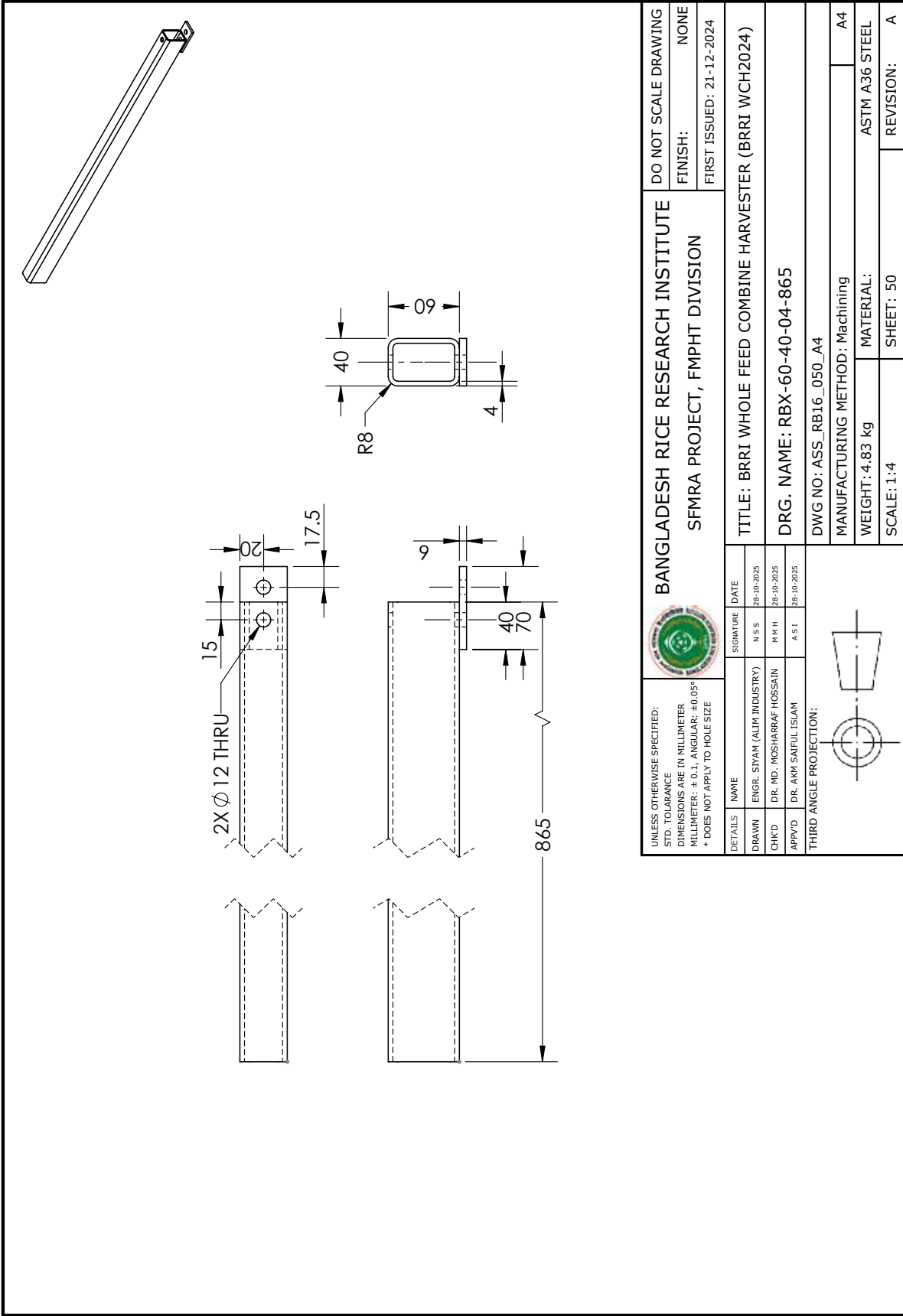


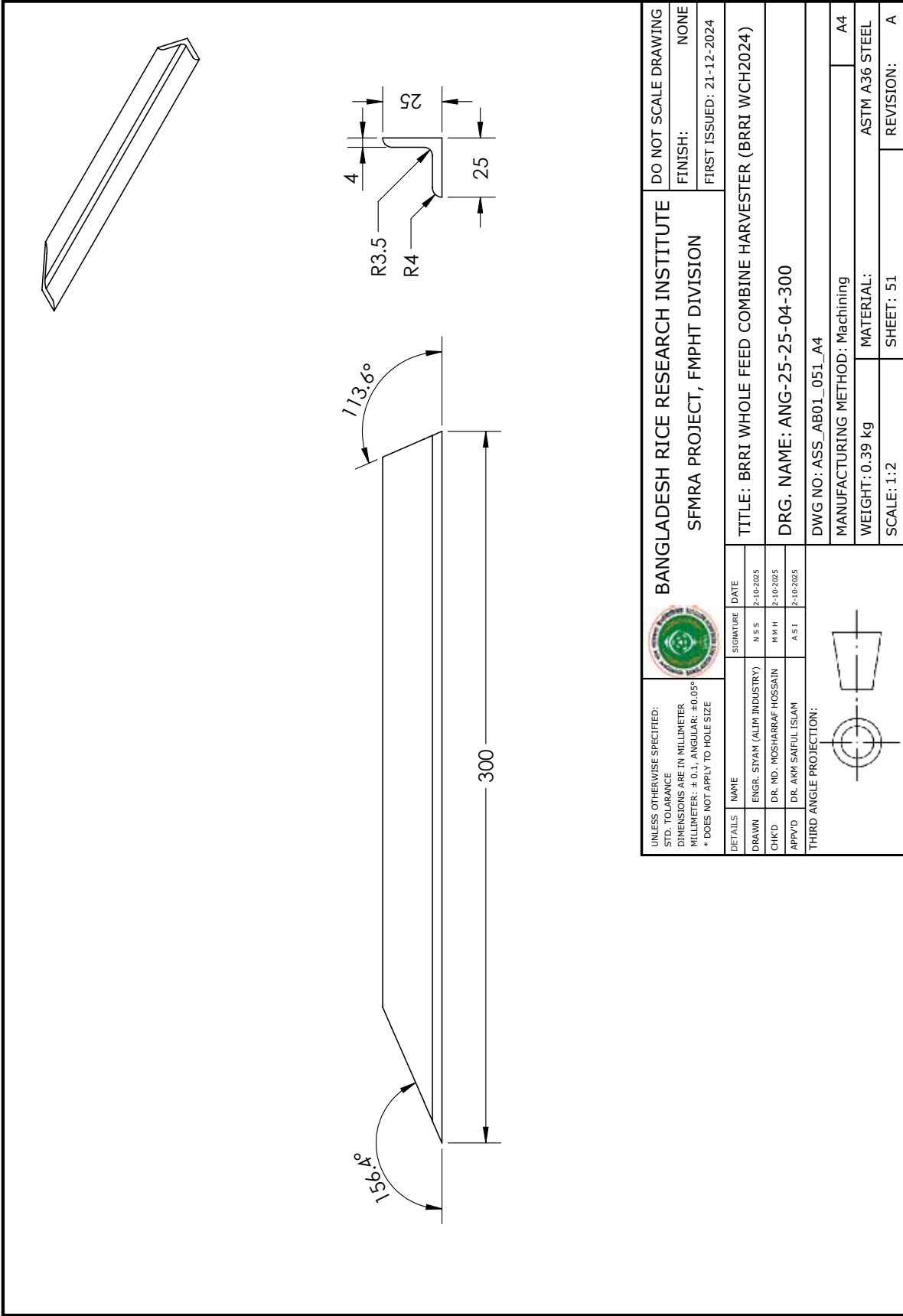



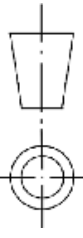
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: SBX-40-04-880			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	28-10-2025	DWG NO: ASS_SB10_047_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:				WEIGHT: 3.69 kg			
				MATERIAL: ASTM A36 STEEL			
				SCALE: 1:4			
				SHEET: 47			
				REVISION: A			

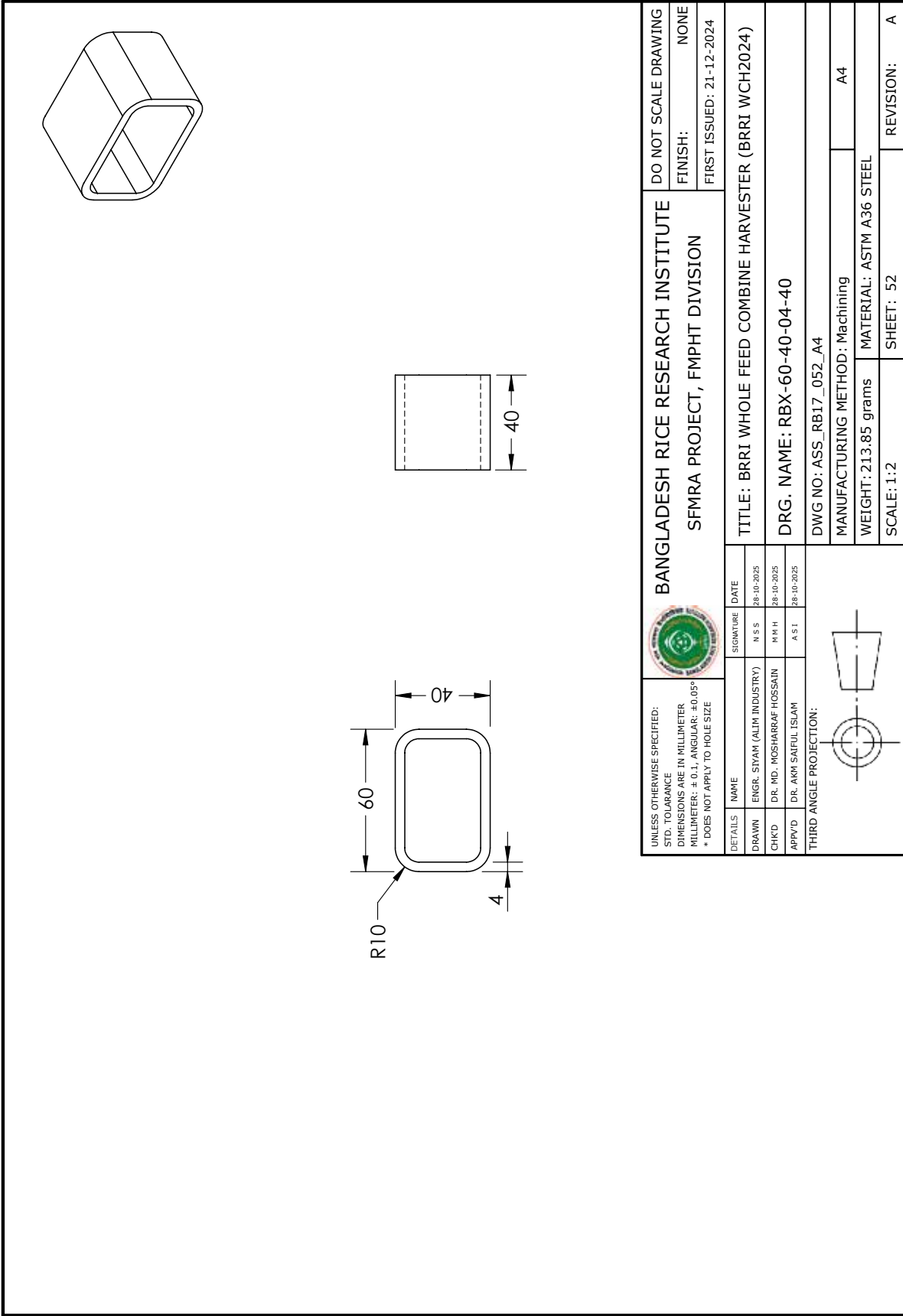


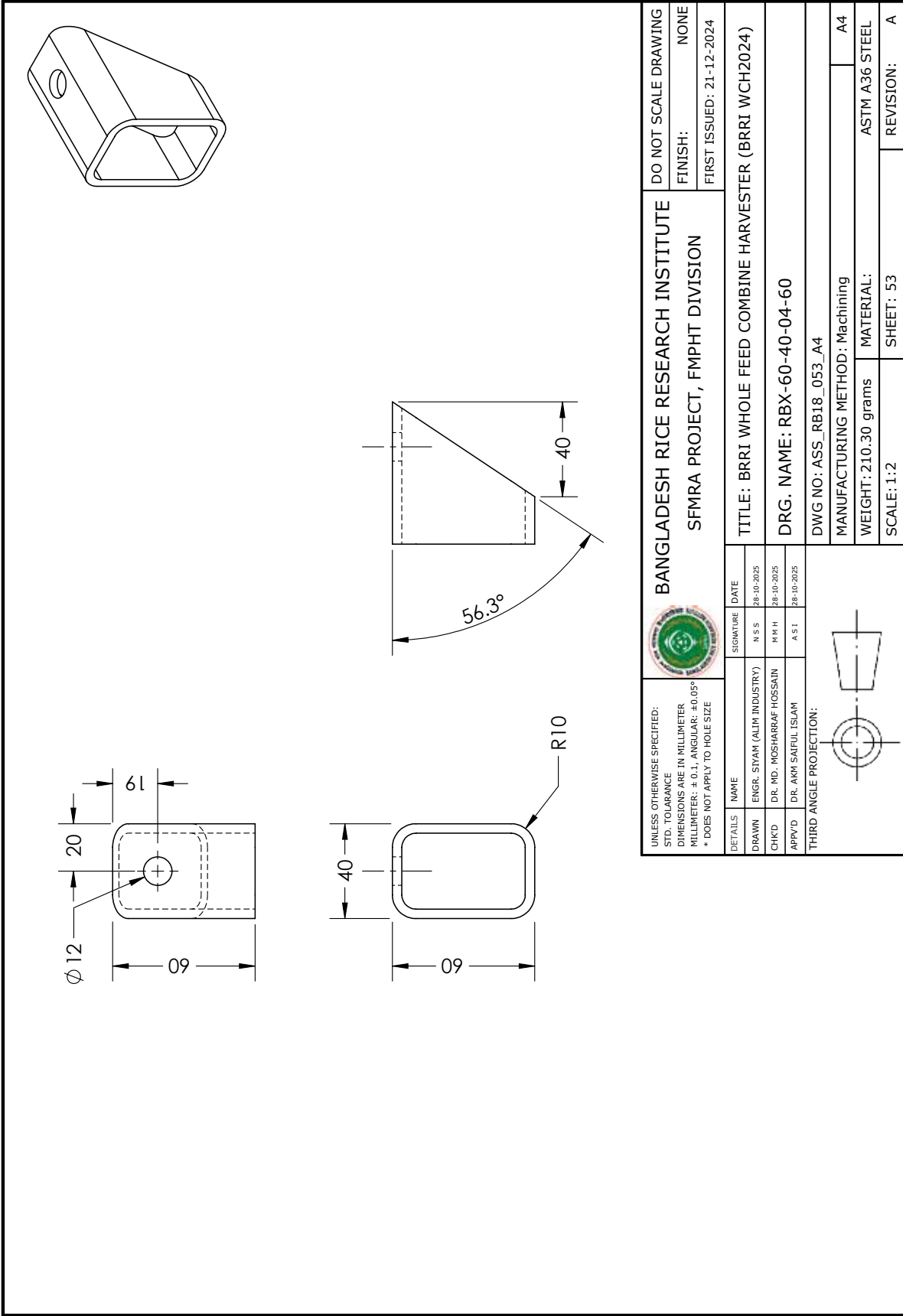


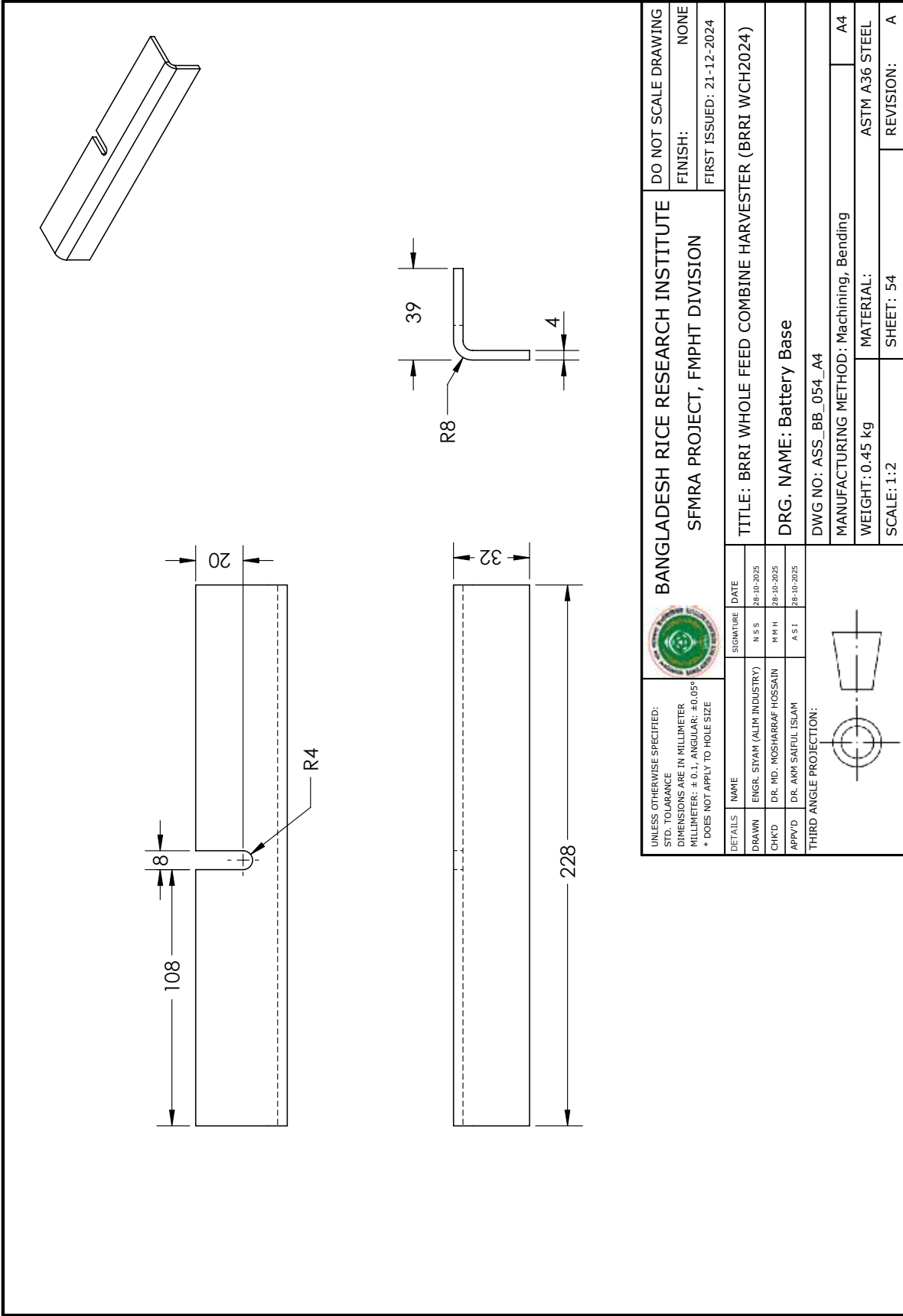


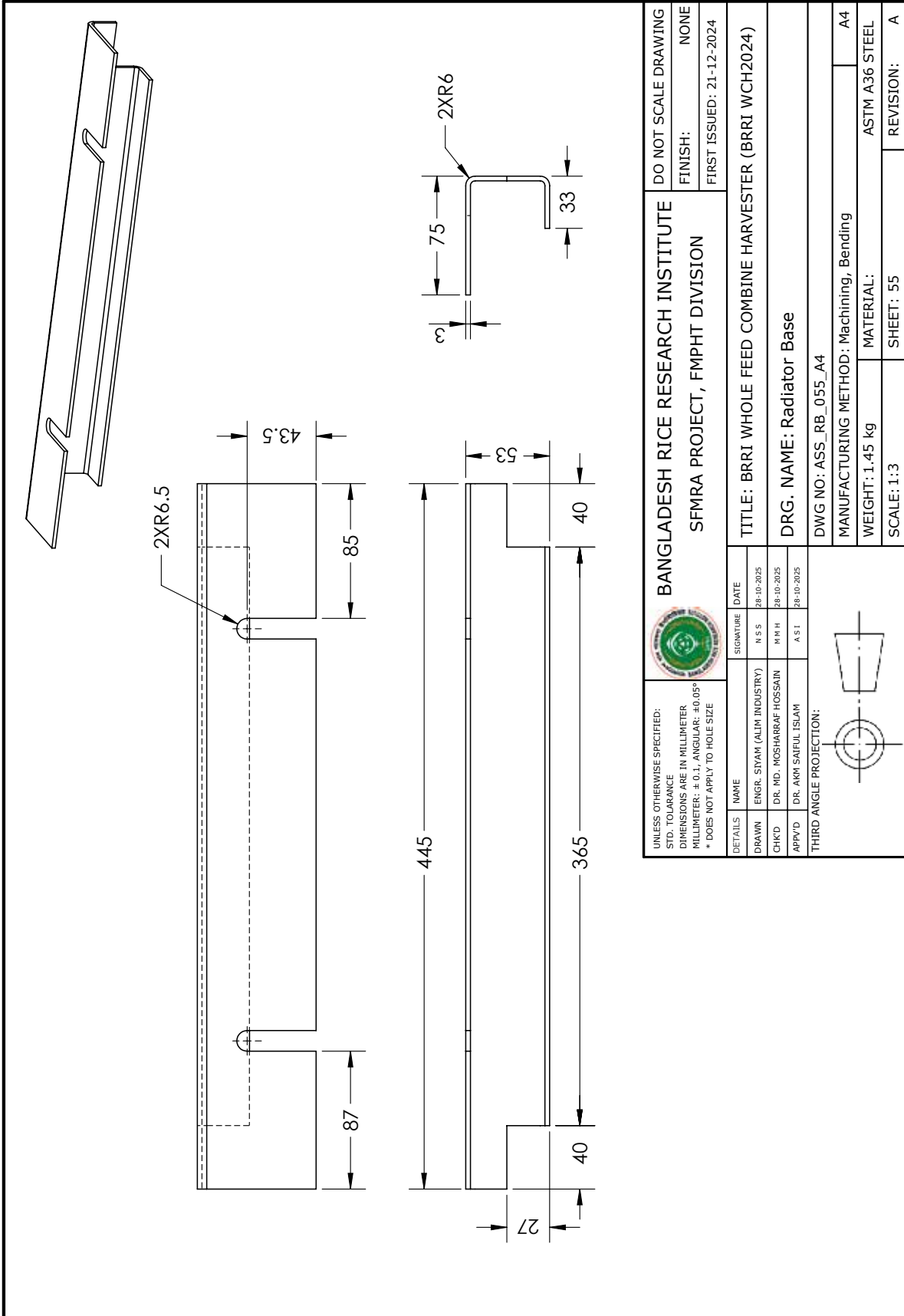



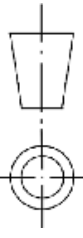
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: ANG-25-25-04-300			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO.: ASS_AB01_051_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:				WEIGHT: 0.39 kg			
				MATERIAL: ASTM A36 STEEL			
				SCALE: 1:2			
				SHEET: 51			
				REVISION: A			

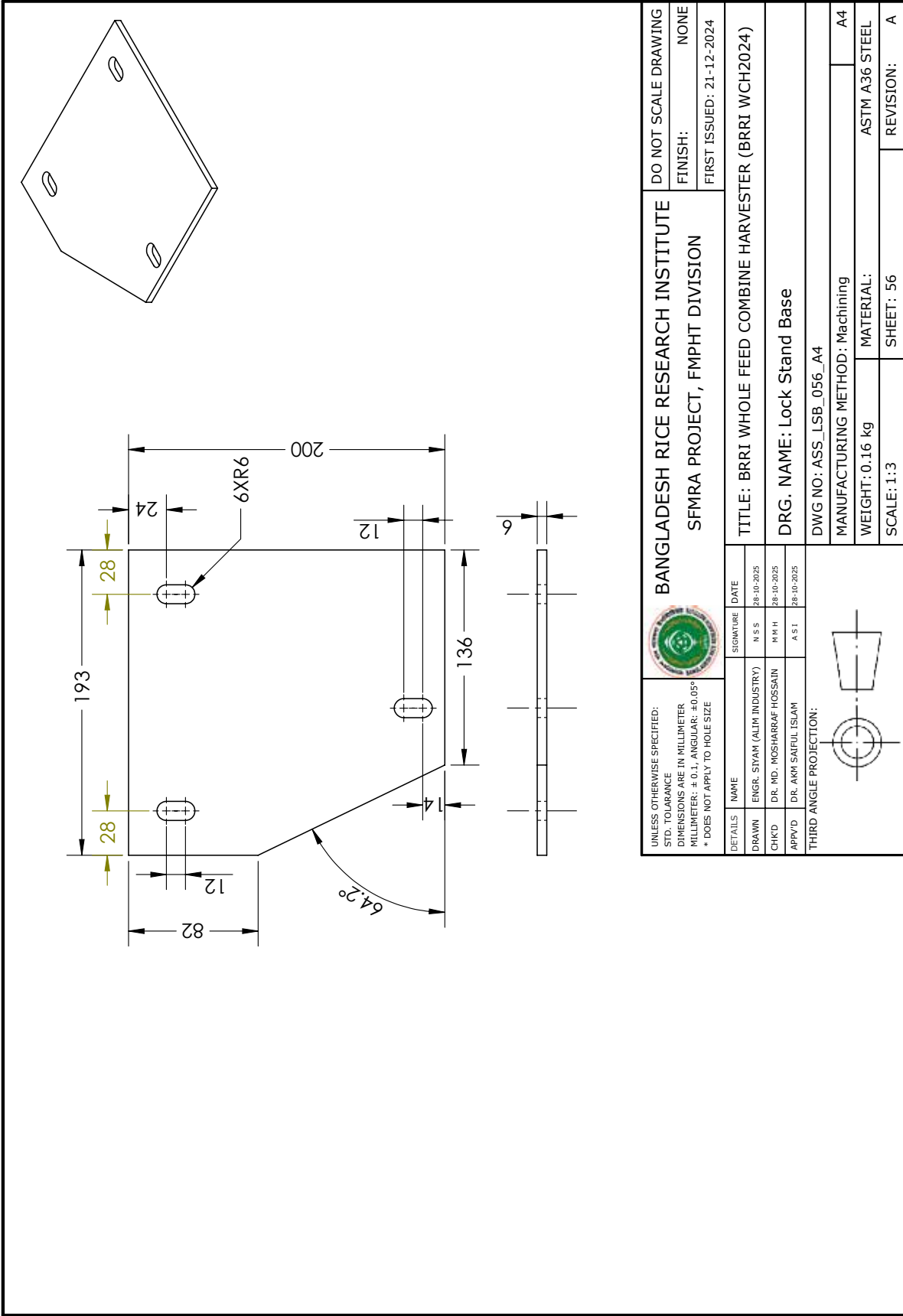


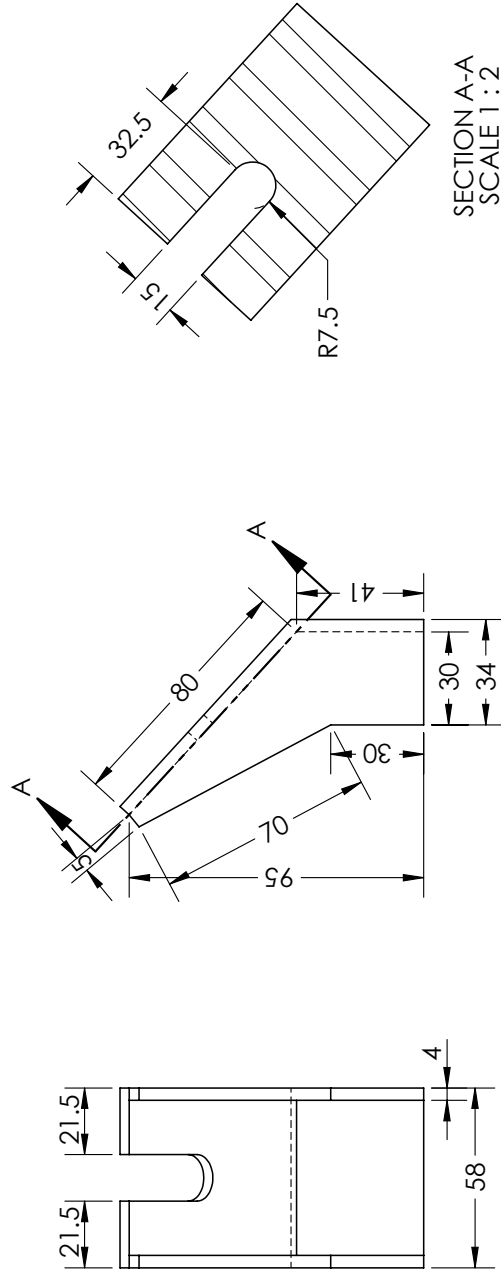
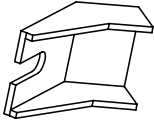





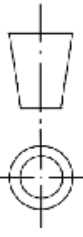


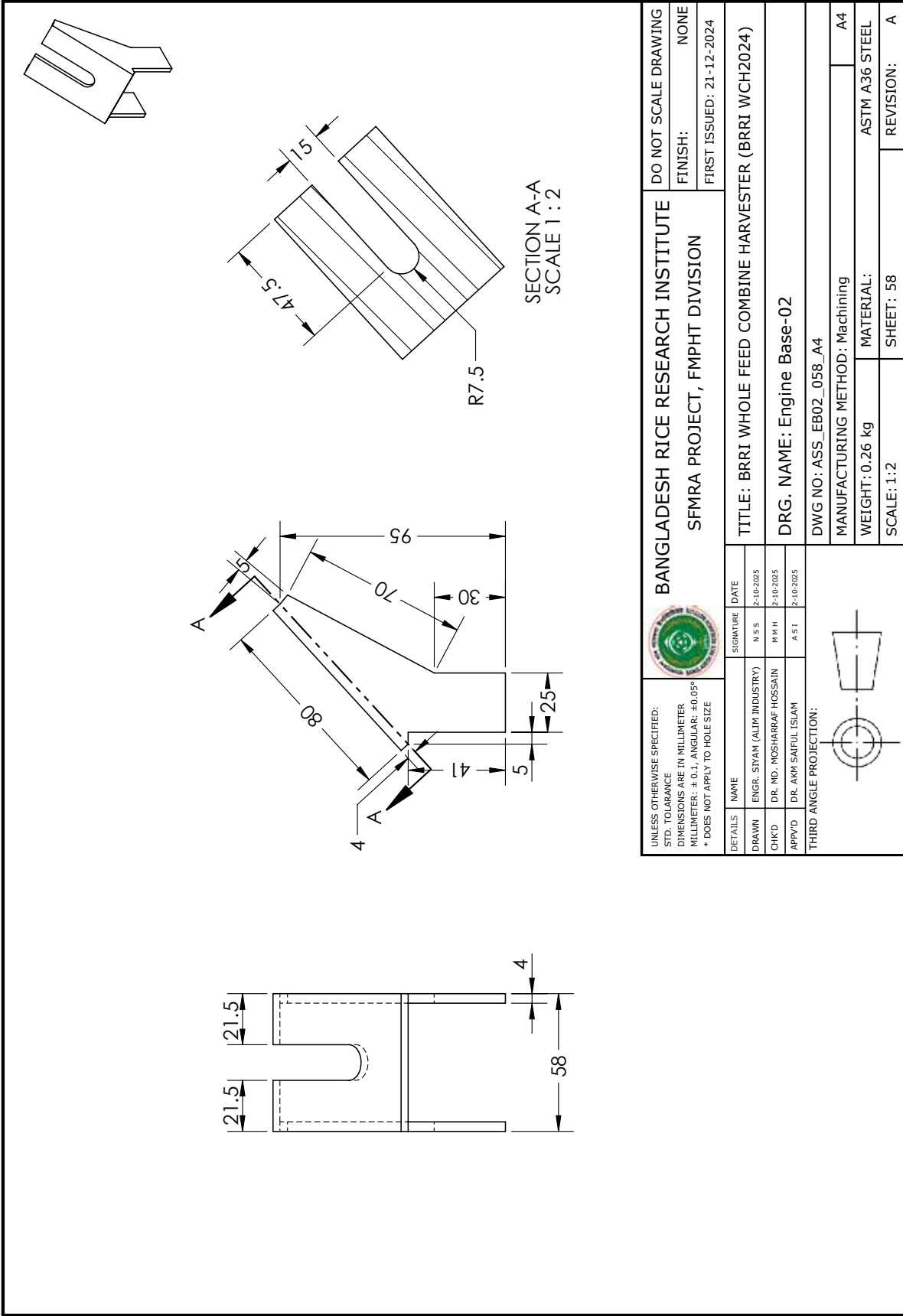
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: Radiator Base			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	28-10-2025	DWG NO: ASS_RB_055_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining, Bending			
THIRD ANGLE PROJECTION:						WEIGHT: 1.45 kg MATERIAL: ASTM A36 STEEL	
				SCALE: 1:3		SHEET: 55	
						REVISION: A	

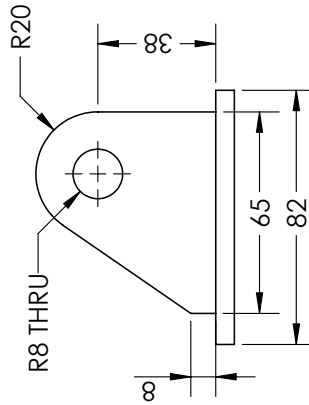
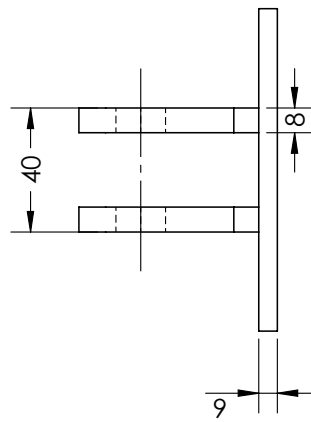
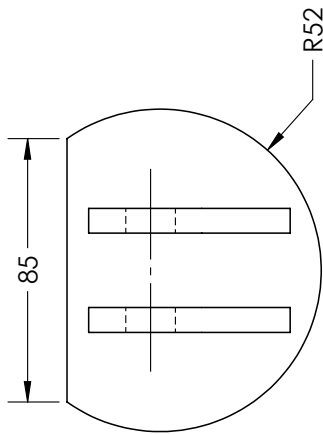
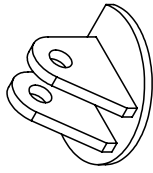



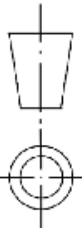


SECTION A-A
SCALE 1 : 2

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Engine Base-01			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_EB01_057_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining, Bending			
THIRD ANGLE PROJECTION:						WEIGHT: 0.35 kg MATERIAL: ASTM A36 STEEL	
				SCALE: 1:2		SHEET: 57	
						REVISION: A	

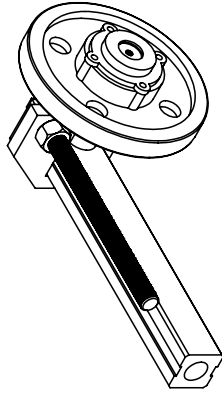



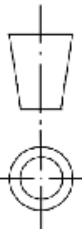


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: Hydraulic Pin Lock			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	28-10-2025	DWG NO: ASS_HPL_059_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining, Welding			
THIRD ANGLE PROJECTION:				WEIGHT: 85 grams			
				MATERIAL: ASTM A36 STEEL			
				SCALE: 1:2			
				SHEET: 59			
				REVISION: A			

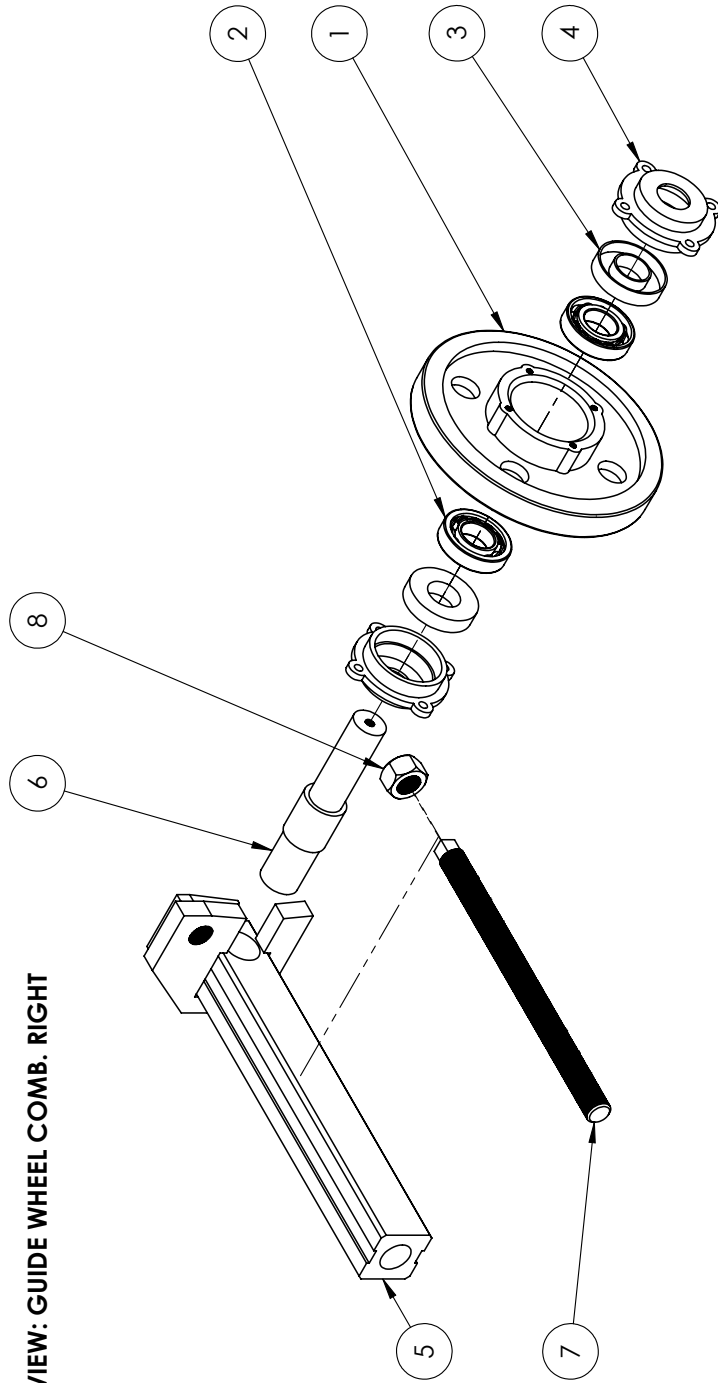
BILL OF MATERIAL: GUIDE WHEEL COMB. RIGHT


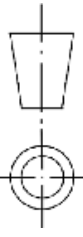
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Guide Wheel	1	ASS_GW_062_A4	GRAY CAST IRON
2	GW_Bearing	2	ASS_GWB_063_A4	BEARNG STEEL
3	GW_Oil Seal	2	ASS_GWOS_064_A4	PTFE
4	GW_Bearing Casing	2	ASS_GWBC_065_A4	GRAY CAST IRON
5	GW_Brace Bar	1	ASS_GWBB_066_A4	ASTM A36 STEEL
6	GW_Shaft	1	ASS_GWS_068_A4	ASTM A36 STEEL
7	GW_Tension Screw Shaft	1	ASS_GWTSS_069_A4	ASTM A36 STEEL
8	GW_TSS_Bolt	1	ASS_GWTSSB_070_A4	ASTM A36 STEEL

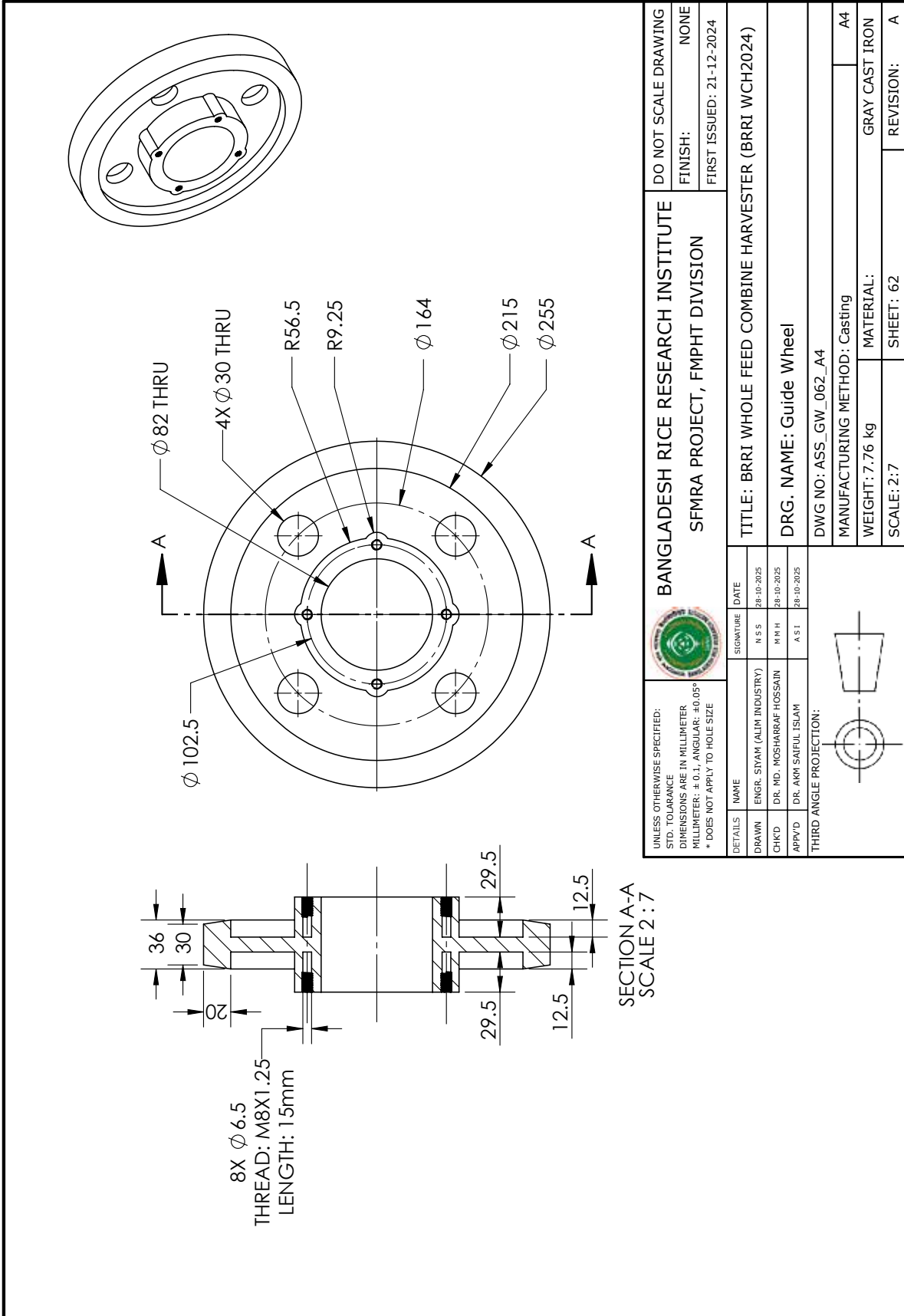


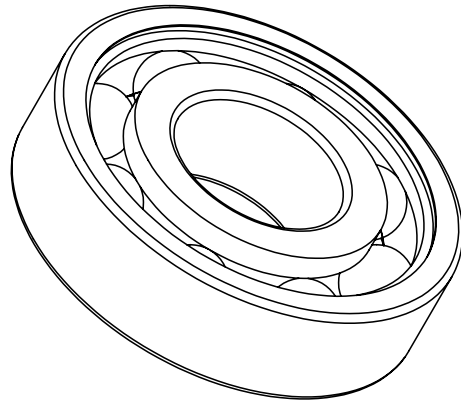
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Guide Wheel Comb. Right			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M N H	2-10-2025	DWG NO: ASS_GWC_060_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining, Casting			
THIRD ANGLE PROJECTION:							
				WEIGHT: 24.81 kg		REVISION: A	
				SCALE: 1:8		SHEET: 60	

EXPLODED VIEW: GUIDE WHEEL COMB. RIGHT


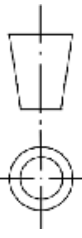


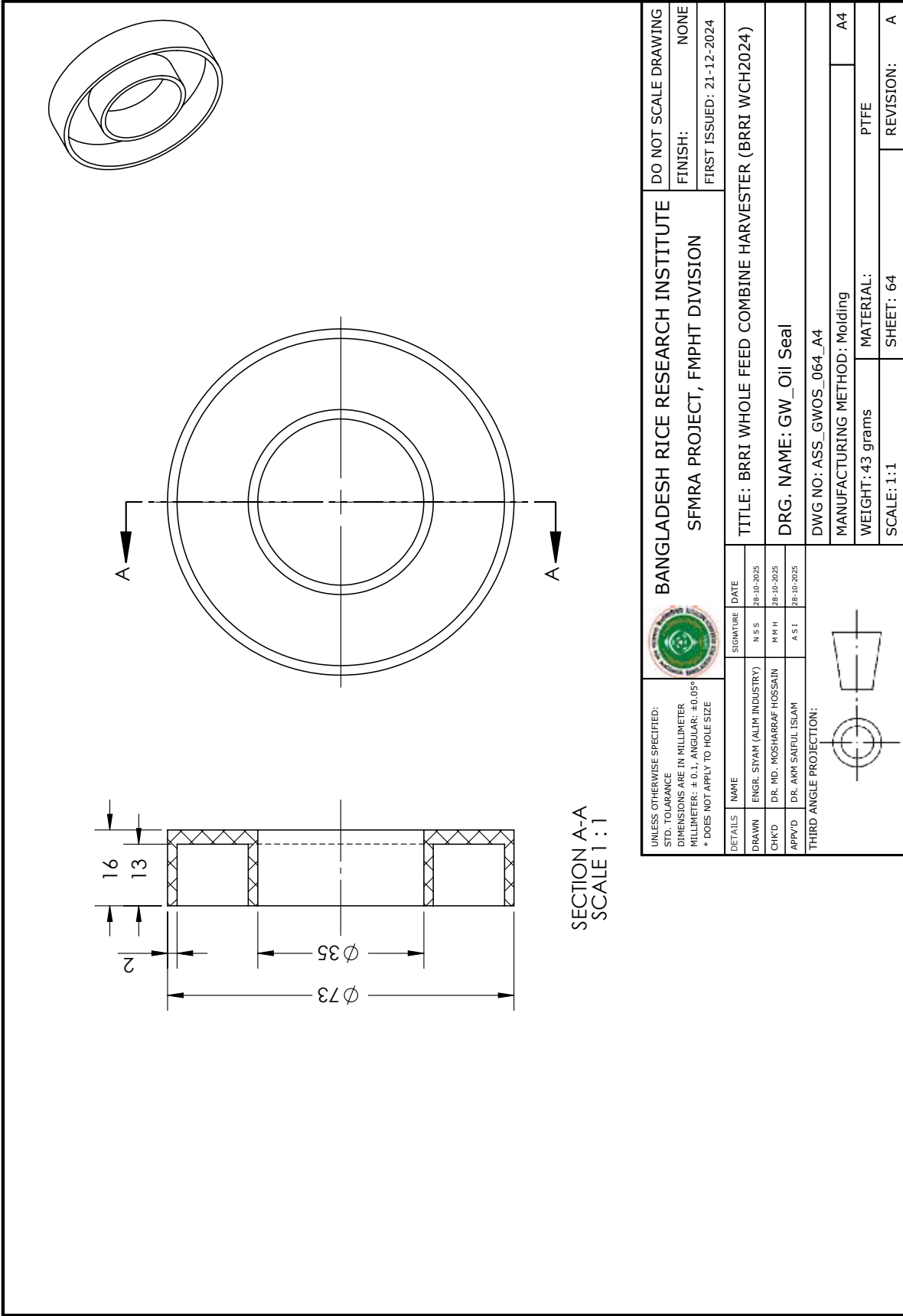
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Guide Wheel Comb. Right			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_GWC_061_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining, Casting			
THIRD ANGLE PROJECTION:				WEIGHT: 24.81 kg			
				SCALE: 1:6			
				MATERIAL:			
				SHEET: 61			
				REVISION: A			

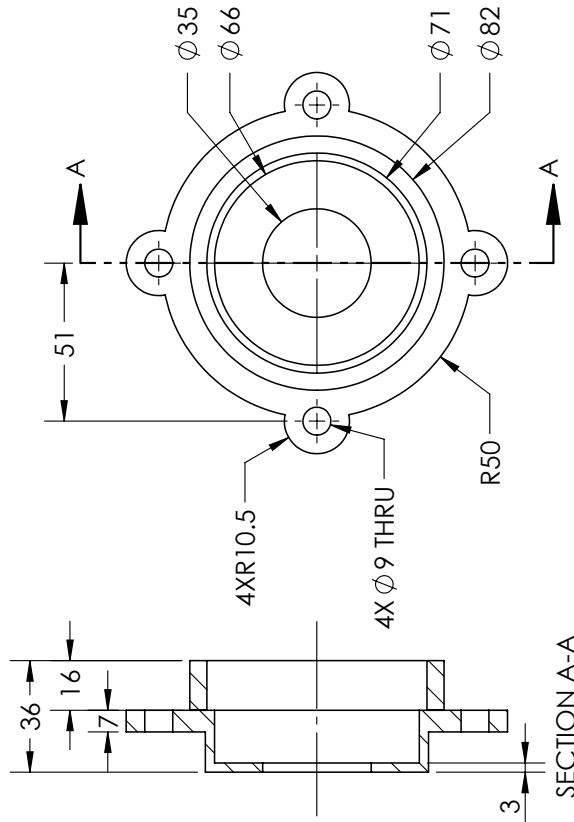
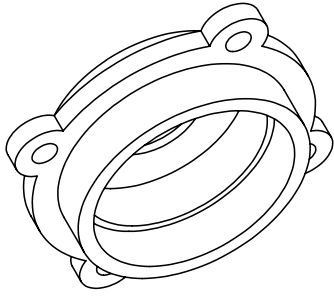



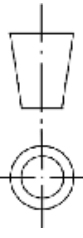


GUIDE WHEEL SHAFT BEARING
 BEARING NO - 6306 DIMENSION
 OD72 X ID30 X W19

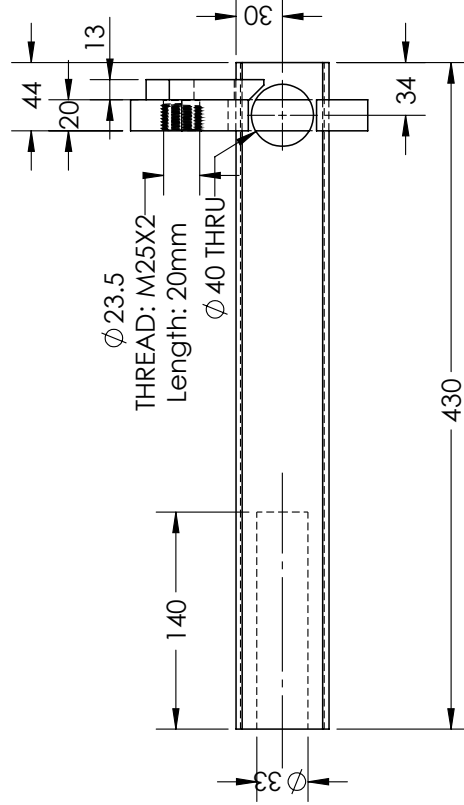
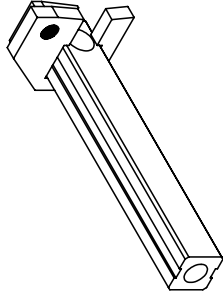
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		DATE	2-10-2025	DO NOT SCALE DRAWING
		SIGNATURE	N S S	
BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DATE	2-10-2025	FIRST ISSUED: 21-12-2024
TITLE: BRR I WHOLE FEED COMBINE HARVESTER (BRR I WCH2024)		DATE	2-10-2025	
DRG. NAME: GW_Bearing		DATE	2-10-2025	
DWG NO: ASS_GWB_063_A4		THIRD ANGLE PROJECTION: 		
MANUFACTURING METHOD: Machining		MATERIAL: BEARING STEEL		
WEIGHT: 200 grams		SCALE: 1:1		
SHEET: 1:1		REVISION: A		


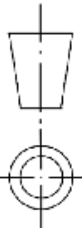


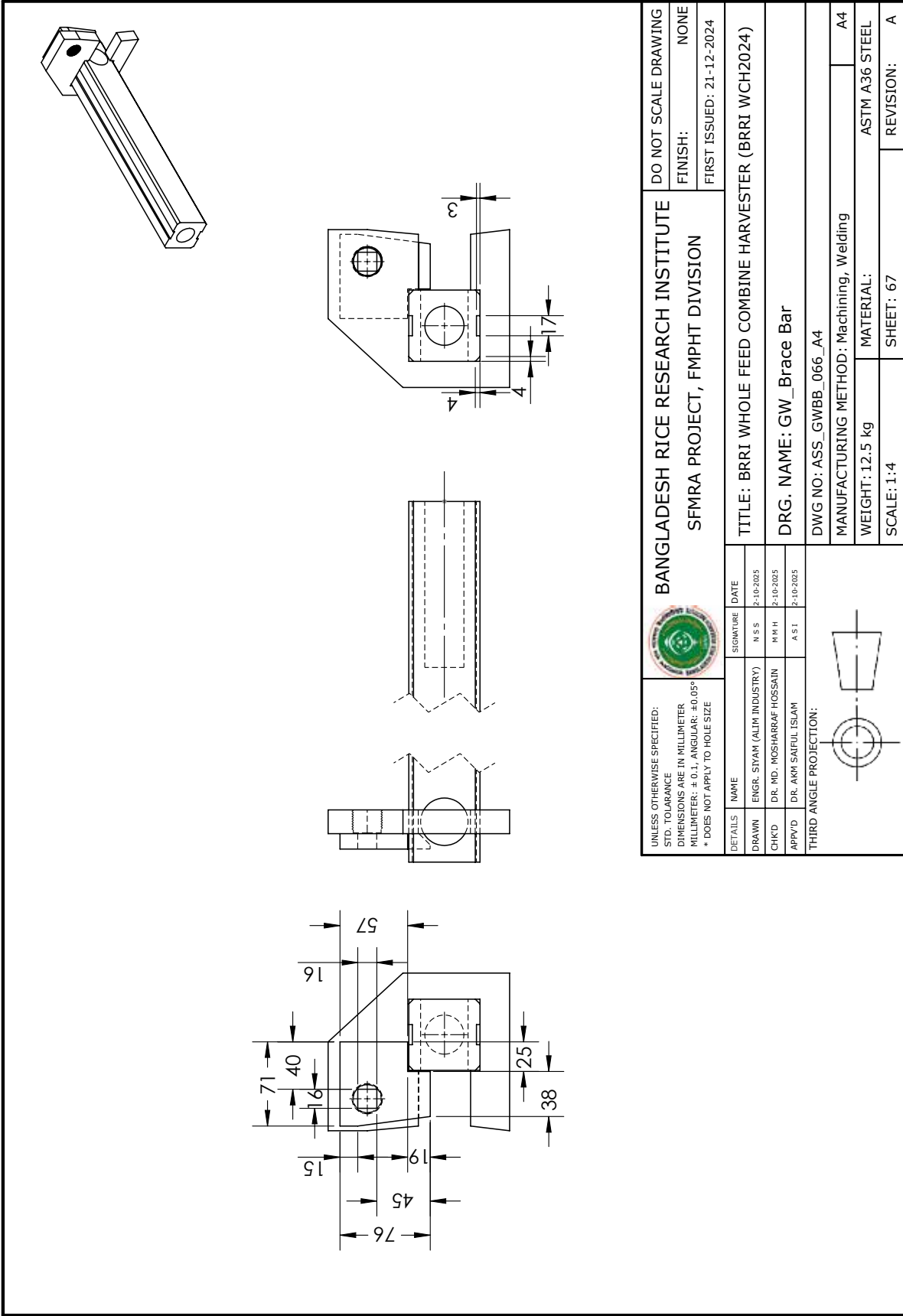


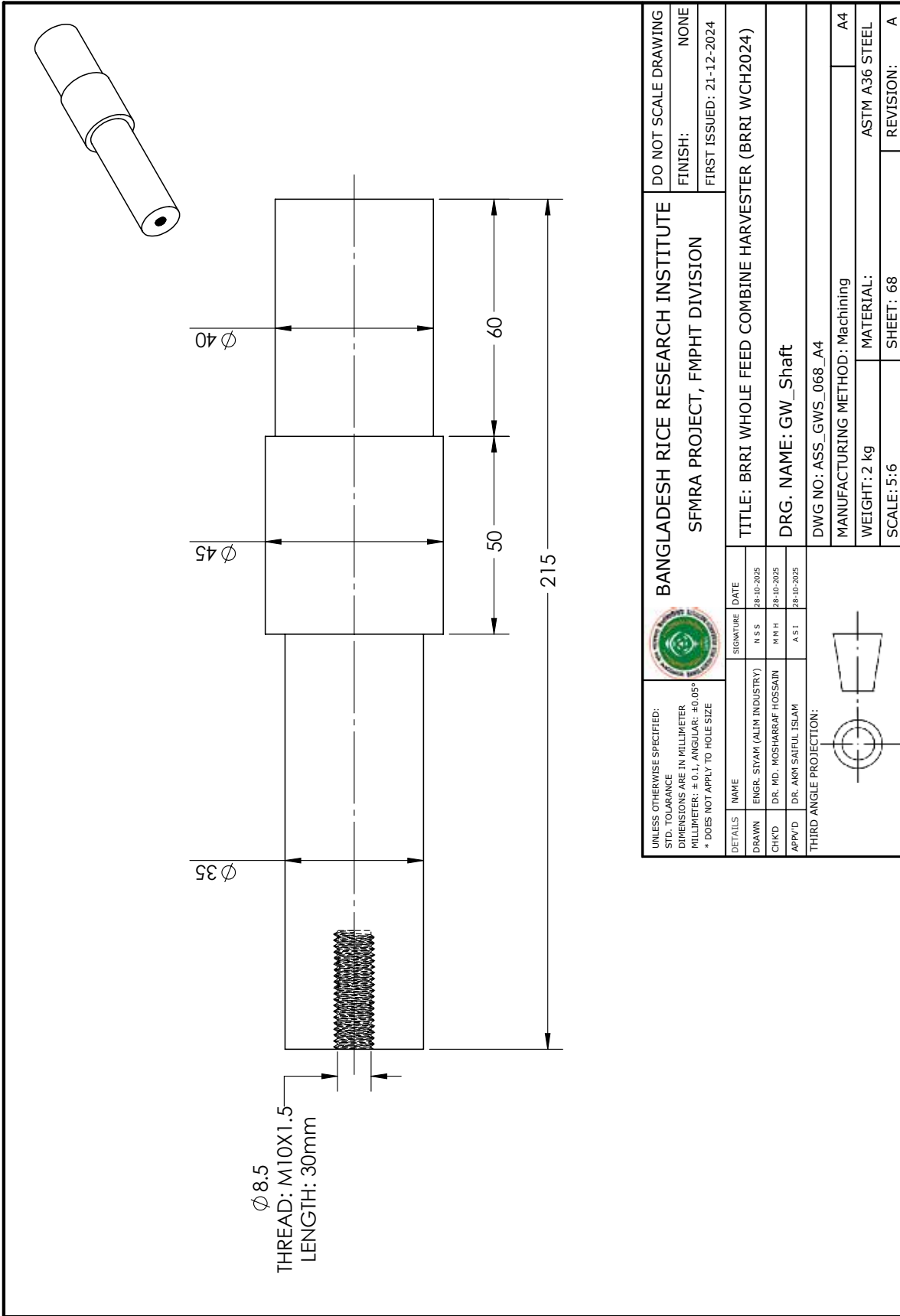
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME DRAWN ENGR. SIYAM (ALIM INDUSTRY) CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM		SIGNATURE N S S M N H A S I		DATE 28-10-2025 28-10-2025 28-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: GW_Bearing Casing DWG NO.: ASS_GWBC_065_A4 MANUFACTURING METHOD: Casting WEIGHT: 517.50 grams SCALE: 1:2	
THIRD ANGLE PROJECTION:				MATERIAL: GRAY CAST IRON SHEET: 65 REVISION: A		A4 GRAY CAST IRON REVISION: A	

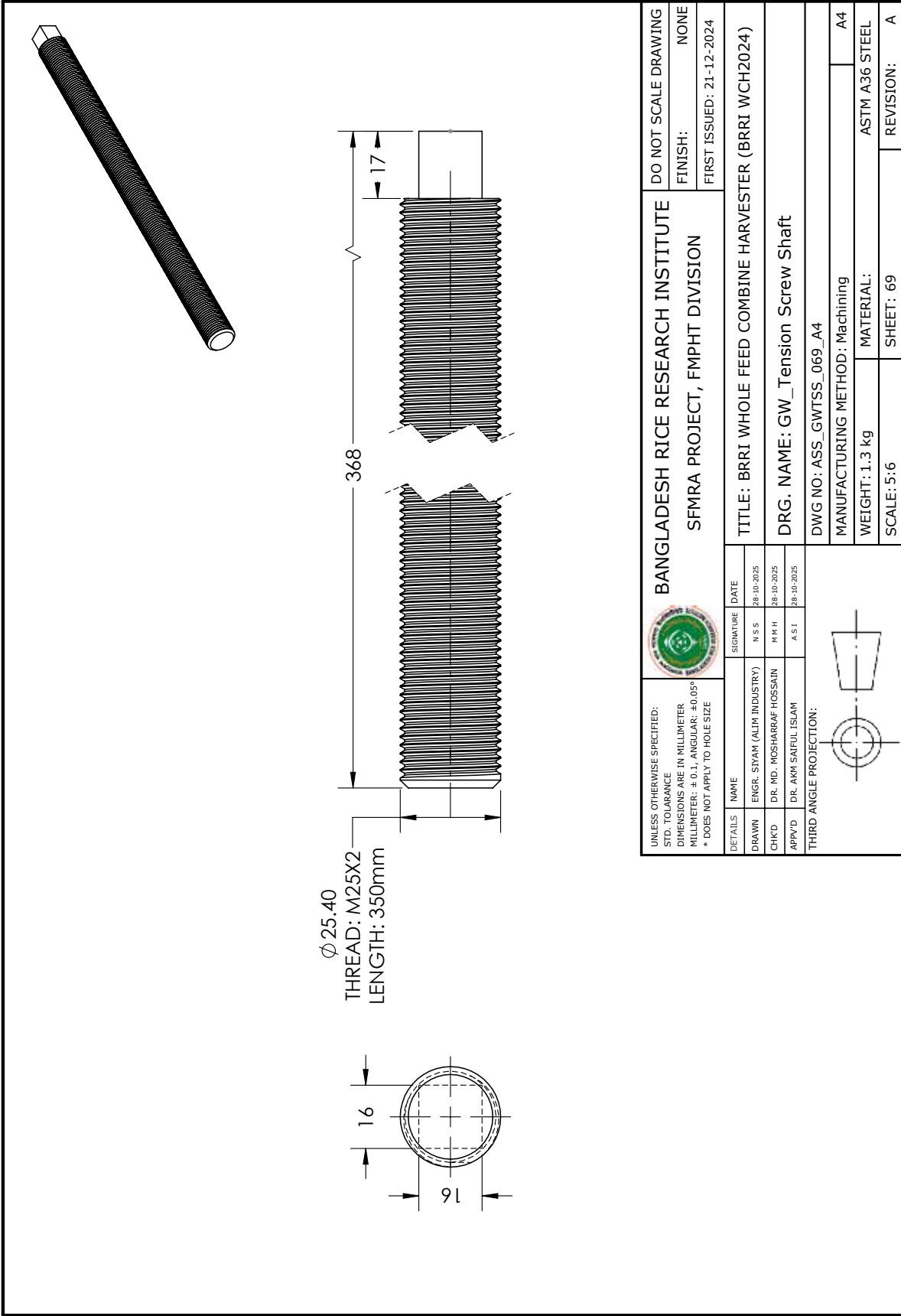
N.B: Not a complete drawing
N.B: Continued on Next Sheet

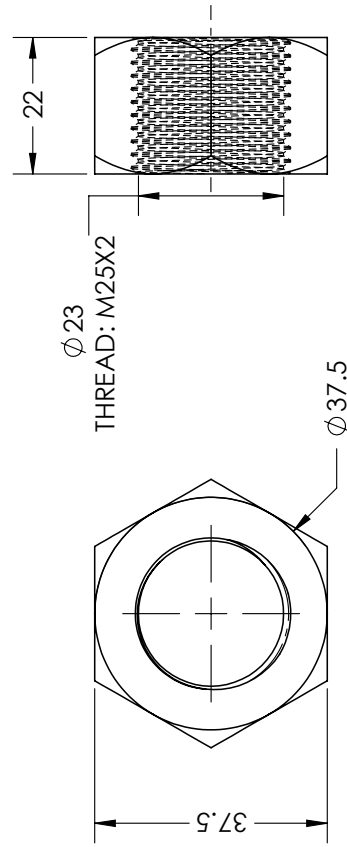
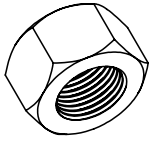



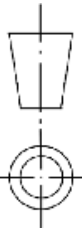
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	28-10-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	
THIRD ANGLE PROJECTION:		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		
		DRG. NAME: GW_Brace Bar		
		DWG NO: ASS_GWBB_067_A4		
		MANUFACTURING METHOD: Machining, Welding		
		WEIGHT: 12.5 kg		
		MATERIAL: ASTM A36 STEEL		
		SCALE: 1:4		
		SHEET: 66		
		REVISION: A		





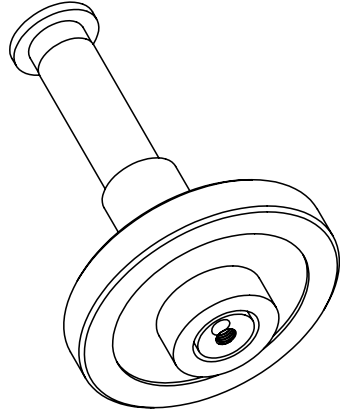



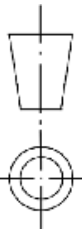


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DRAWN: ENGR. SIYAM (ALIM INDUSTRY) CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'D: DR. AKM SAIFUL ISLAM		SIGNATURE N S S M N H A S I		FINISH: NONE FIRST ISSUED: 21-12-2024
TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024) DRG. NAME: GW_TSS_Bolt DWG NO.: ASS_GWTSSB_070_A4 MANUFACTURING METHOD: Machining WEIGHT: 128 grams SCALE: 1:1		THIRD ANGLE PROJECTION: 		ASTM A36 STEEL REVISION: A

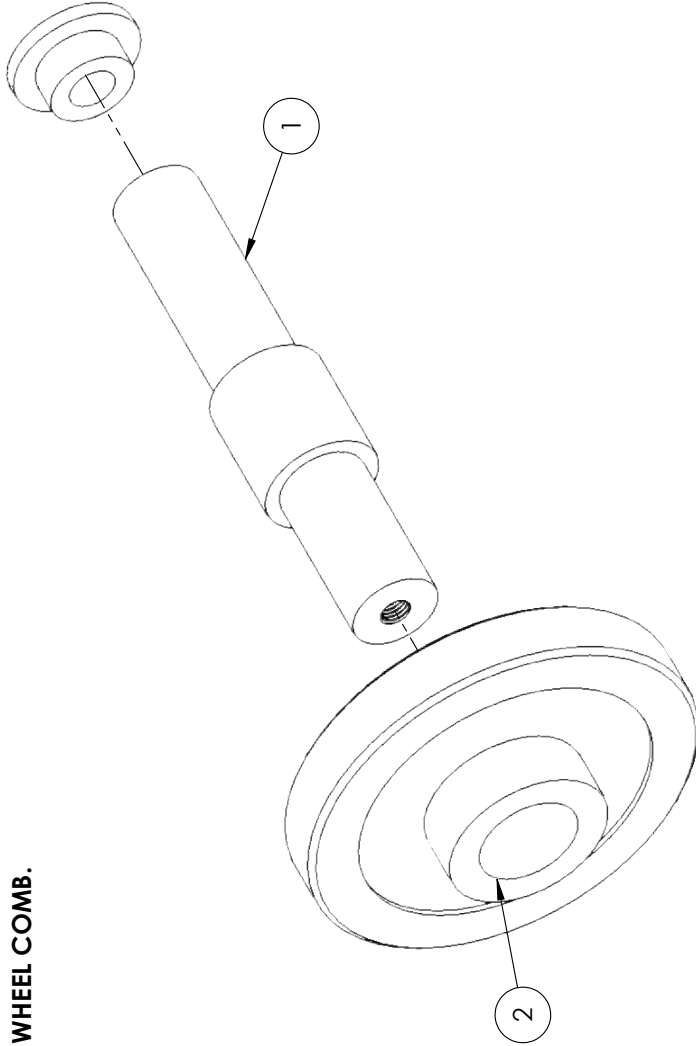
BILL OF MATERIAL: SUPPORT WHEEL COMB.


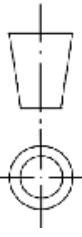
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	SW_Shaff	1	ASS_SWS_073_A4	ASTM A36 STEEL
2	Support Wheel	1	ASS_SW_074_A4	GRAY CAST IRON
3	SW_Bush	1	ASS_SWB_075_A4	ASTM A36 STEEL

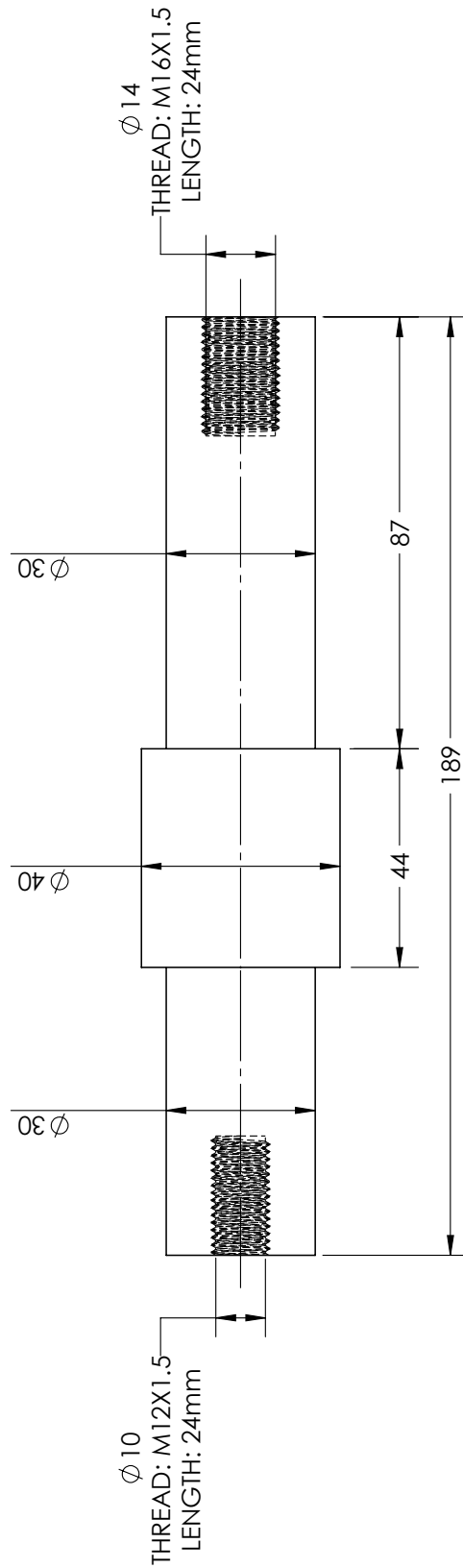
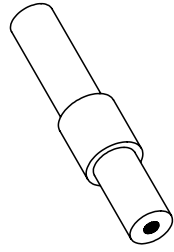



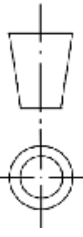
UNLESS OTHERWISE SPECIFIED: STD. TOLARANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS DRAWN: ENGR. SIYAM (ALIM INDUSTRY) CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'VD: DR. AKM SAIFUL ISLAM		SIGNATURE N S S M R H A S I		DATE 2-10-2025 2-10-2025 2-10-2025		TITLE: BRR I WHOLE FEED COMBINE HARVESTER (BRR I WCH2024) DRG. NAME: Support Wheel Comb.	
THIRD ANGLE PROJECTION:				DWG NO.: ASS_SWC_071_A4 MANUFACTURING METHOD: Machining WEIGHT: 3.61 kg SCALE: 1:3		MATERIAL: A4 SHEET: 71 REVISION: A	

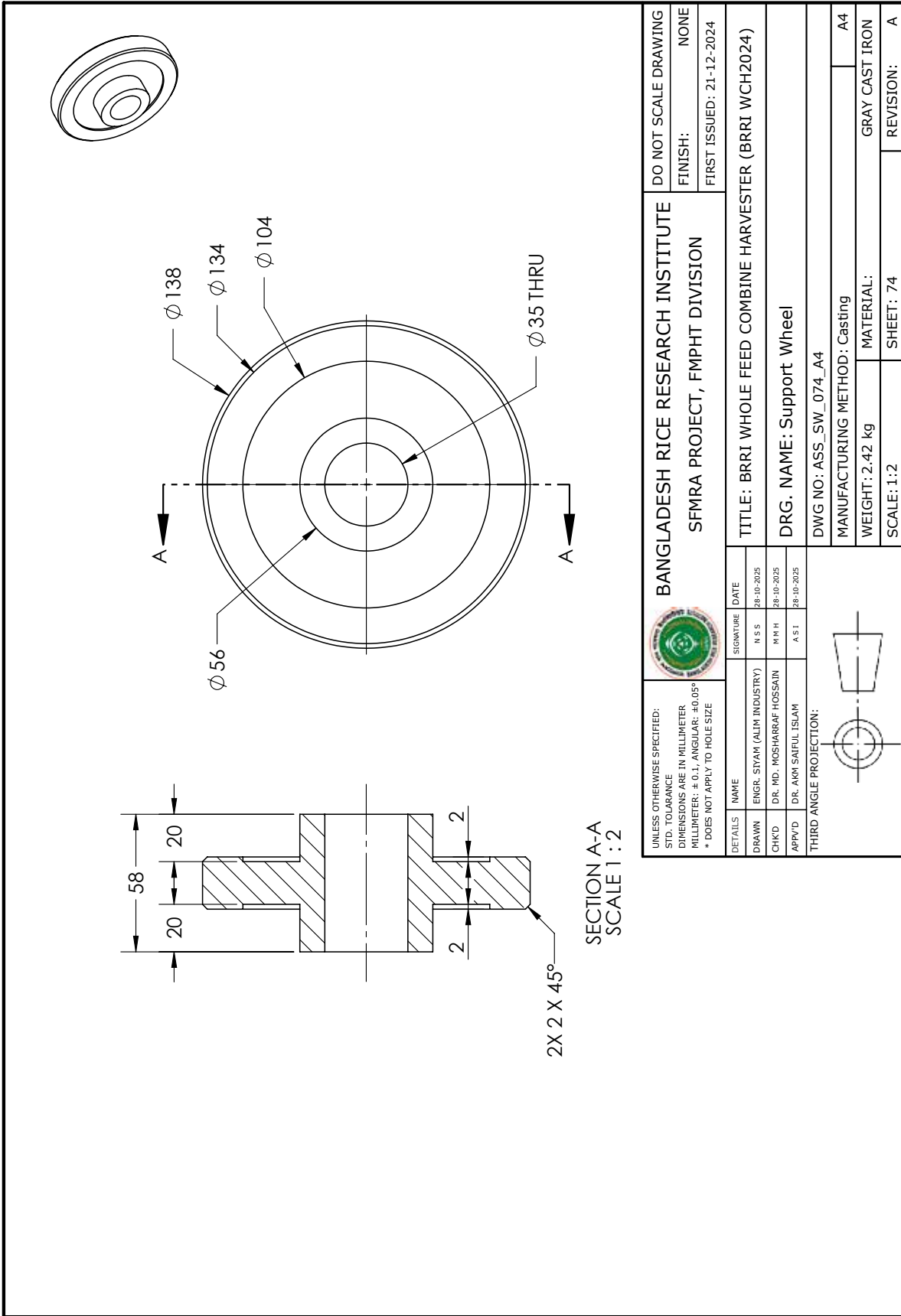
EXPLODED VIEW: SUPPORT WHEEL COMB.




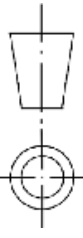
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME ENGR. SIYAM (ALIM INDUSTRY) CHKD DR. MD. MOSHARRAF HOSSAIN APPVD DR. AKM SAIFUL ISLAM		SIGNATURE N S S M H H A S I		DATE 2-10-2025 2-10-2025 2-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Support Wheel Comb. DWG NO.: ASS_SWC_072_A4 MANUFACTURING METHOD: Machining WEIGHT: 3.61 kg SCALE: 1:2	
THIRD ANGLE PROJECTION:				MATERIAL: SHEET: 72		REVISION: A	

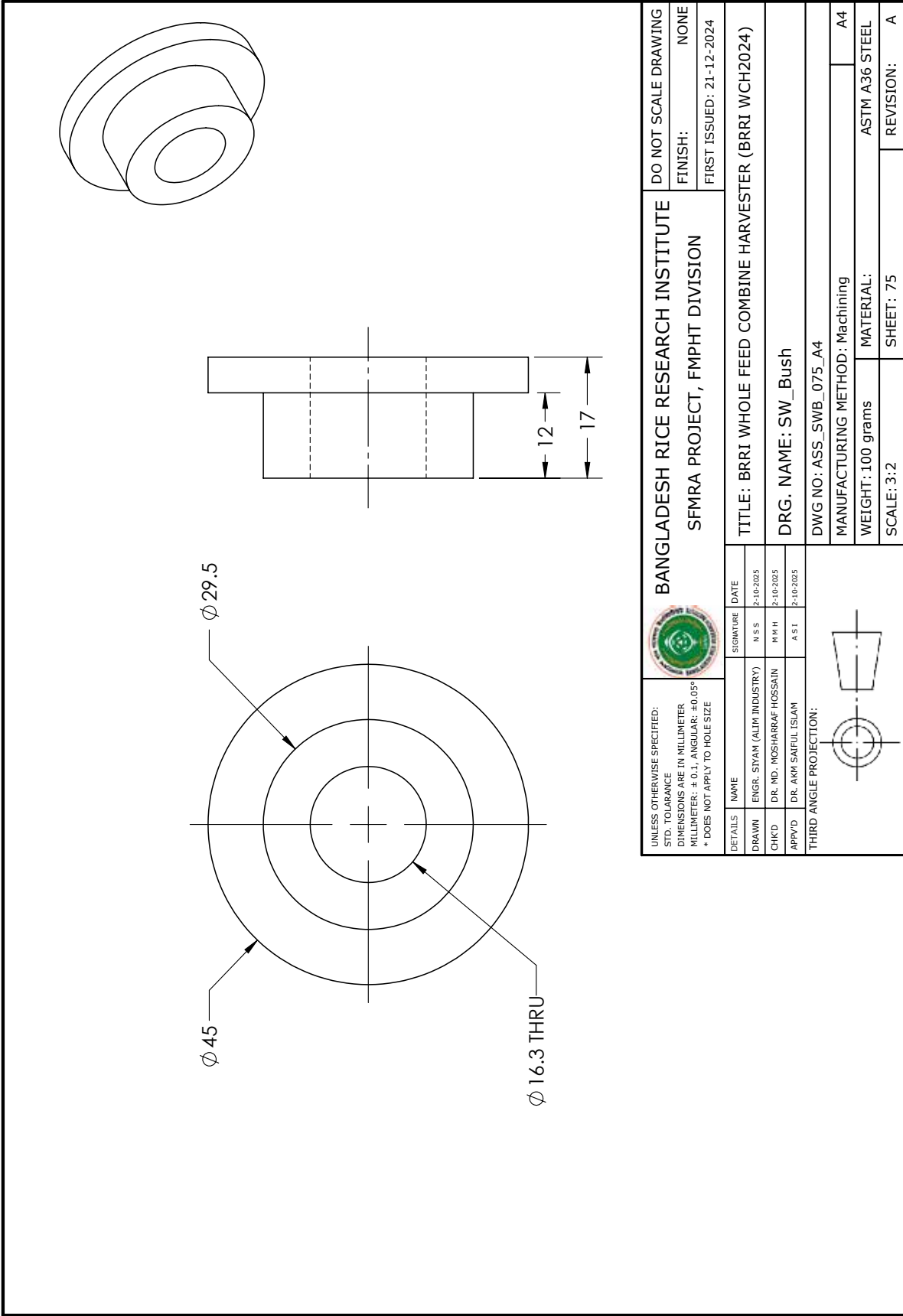


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		FINISH:	NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: SW_Shaft		FIRST ISSUED:	21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	28-10-2025	DWG NO.: ASS_SWS_073_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:						MATERIAL: ASTM A36 STEEL	
				WEIGHT: 1.19 kg		REVISION: A	
				SCALE: 5:6		SHEET: 73	



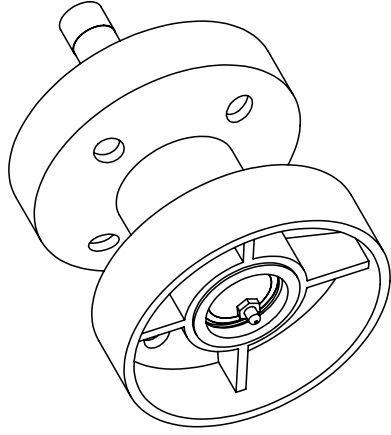
SECTION A-A
SCALE 1 : 2


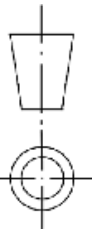
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME ENGR. SIYAM (ALIM INDUSTRY) CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM		SIGNATURE N S S M H H A S I		DATE 28-10-2025 28-10-2025 28-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Support Wheel DWG NO.: ASS_SW_074_A4	
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Casting WEIGHT: 2.42 kg SCALE: 1:2		MATERIAL: GRAY CAST IRON SHEET: 74 REVISION: A	



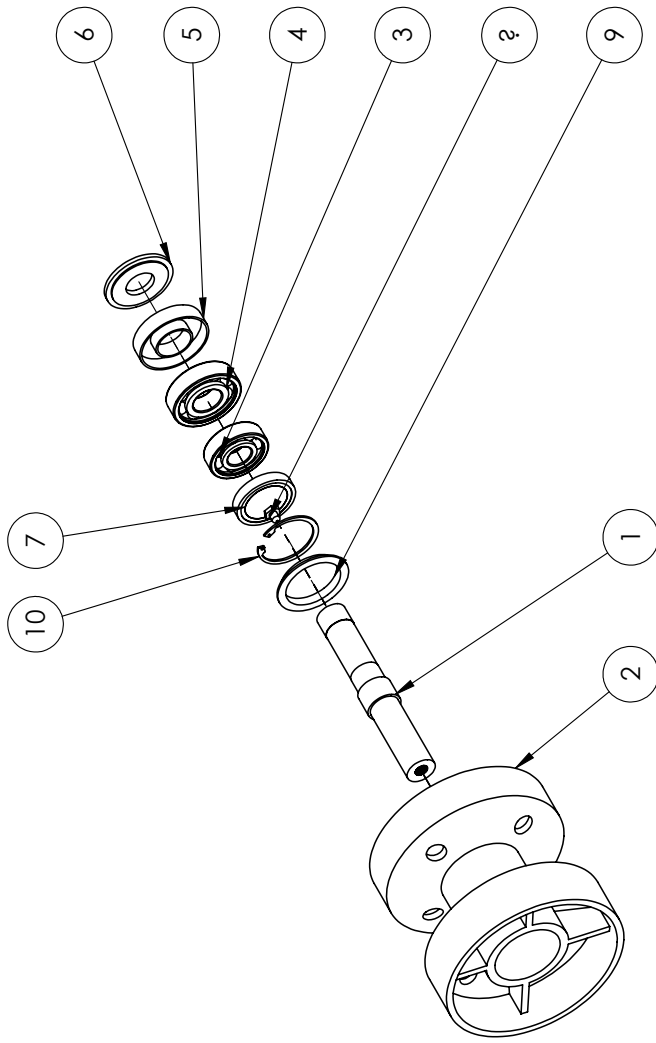
BILL OF MATERIAL: THRUST WHEEL COMB.


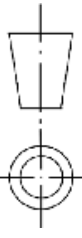
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	TW_Shaff	1	ASS_TWS_078_A4	ASTM A36 STEEL
2	Thrust Wheel	1	ASS_TW_079_A4	GRAY CAST IRON
3	TW_Bearing-01	1	ASS_TW01_080_A4	BEARING STEEL
4	TW_Bearing-02	1	ASS_TW02_081_A4	BEARING STEEL
5	TW_Oil Seal	1	ASS_TW05_082_A4	PTIFE
6	TW_Cover	1	ASS_TWC_083_A4	ASTM A36 STEEL
7	TW_Grease Path	1	ASS_TWGP_084_A4	ASTM A36 STEEL
8	TW_Pin	1	ASS_TWP_085_A4	ASTM A36 STEEL
9	TW_Plastic Seal	1	ASS_TWPS_086_A4	PTIFE
10	TW_Internal Ring	1	ASS_TWIR_087_A4	CARBON SPRING STEEL

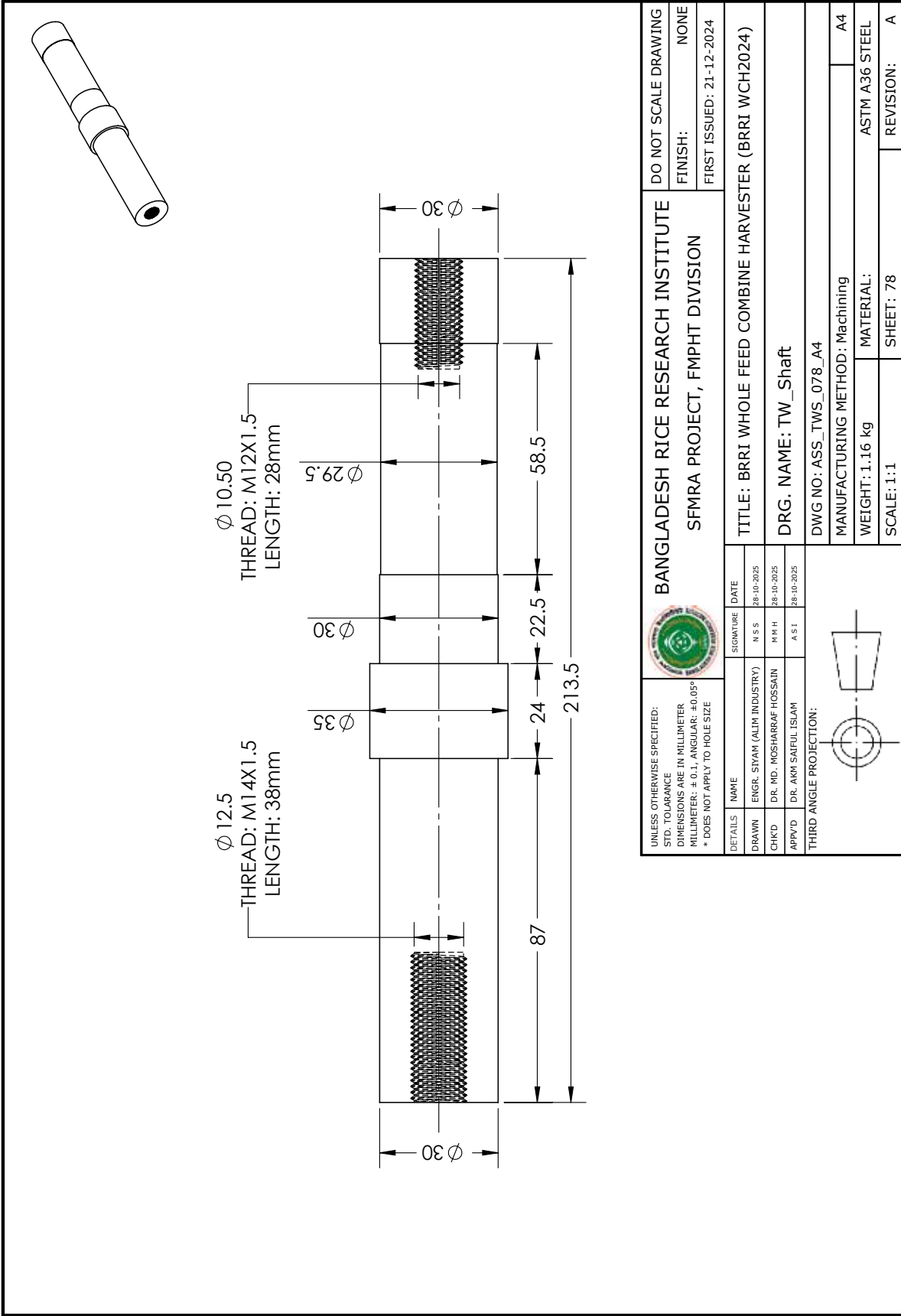


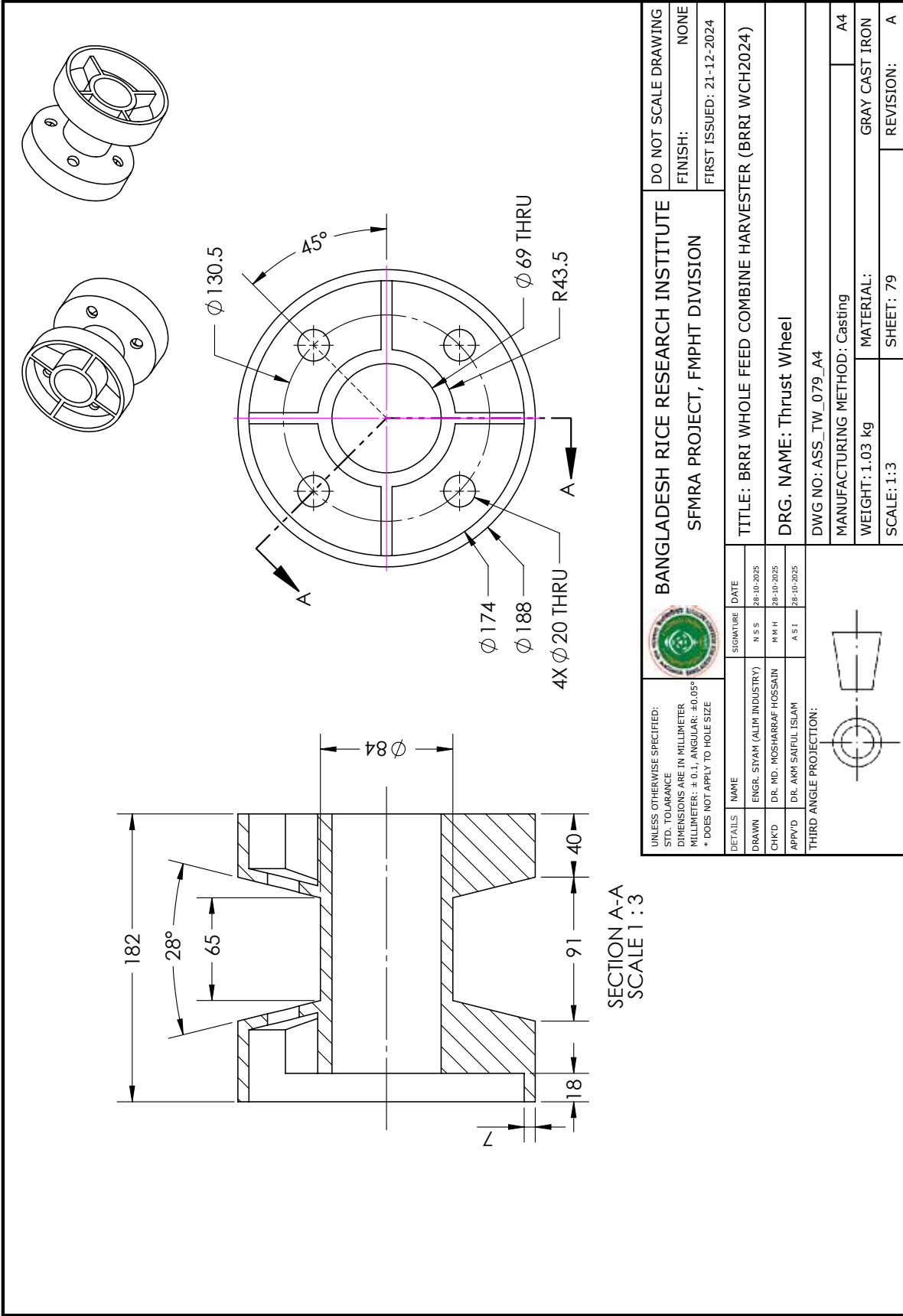
UNLESS OTHERWISE SPECIFIED: STD. TOLARANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
		TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)		FINISH: NONE
		DRG. NAME: Thrust Wheel Comb.		FIRST ISSUED: 21-12-2024
DWG NO: ASS_TWC_076_A4		MANUFACTURING METHOD: Casting, Machining, Molding		
THIRD ANGLE PROJECTION: 		WEIGHT: 8.92 kg		
SCALE: 1:4		MATERIAL:		
SHEET: 76		REVISION: A		

EXPLODED VIEW: THRUST WHEEL COMB.


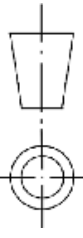
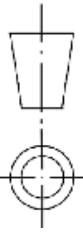


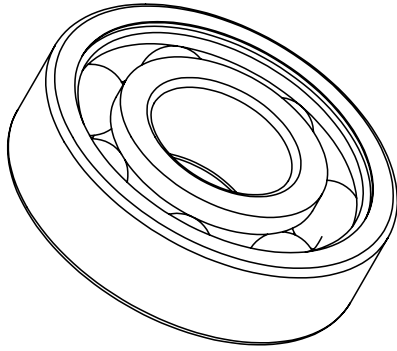
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Thrust Wheel Comb.			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_TWC_077_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Casting, Machining, Molding			
THIRD ANGLE PROJECTION:							
			WEIGHT: 8.92 kg		REVISION: A		
			SCALE: 1:1.6		SHEET: 77		




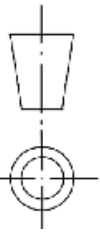


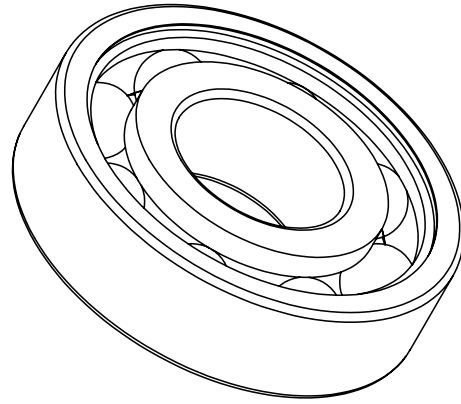
SECTION A-A
SCALE 1 : 3

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME ENGR. SIYAM (ALIM INDUSTRY) CHKD. DR. MD. MOSHARRAF HOSSAIN APPVD. DR. AKM SAIFUL ISLAM		SIGNATURE N S S M H H A S I		DATE 28-10-2025 28-10-2025 28-10-2025		TITLE: BRI WHOLE FEED COMBINE HARVESTER (BRI WCH2024) DRG. NAME: Thrust Wheel DWG NO.: ASS_TW_079_A4	
THIRD ANGLE PROJECTION: 				MANUFACTURING METHOD: Casting WEIGHT: 1.03 kg SCALE: 1:3		MATERIAL: GRAY CAST IRON SHEET: 79 REVISION: A	


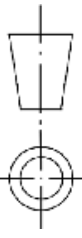


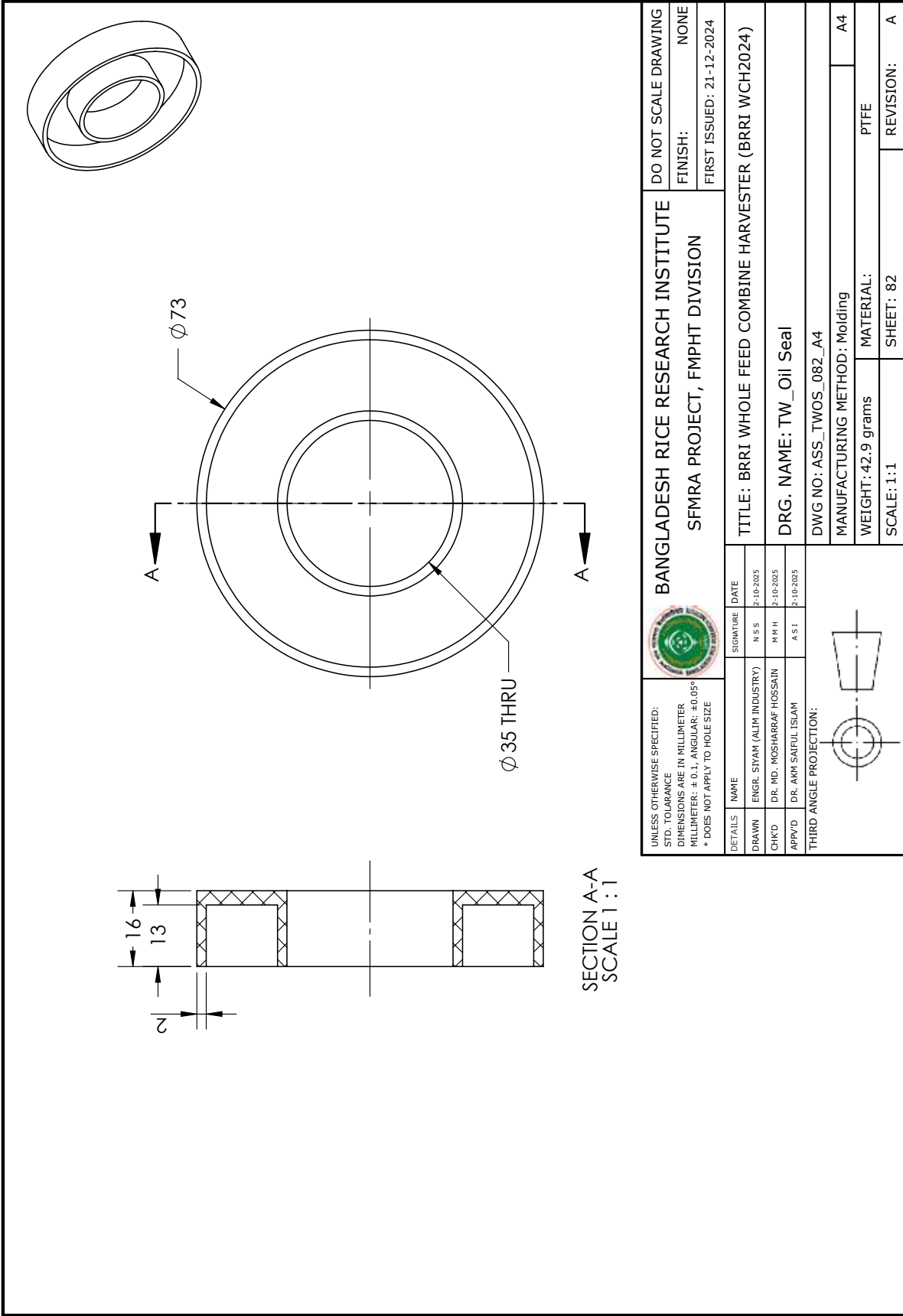
THRUST WHEEL SHAFT BEARING
 BEARING NO - 6305 DIMENSION
 OD 62 X ID 25 X W 17

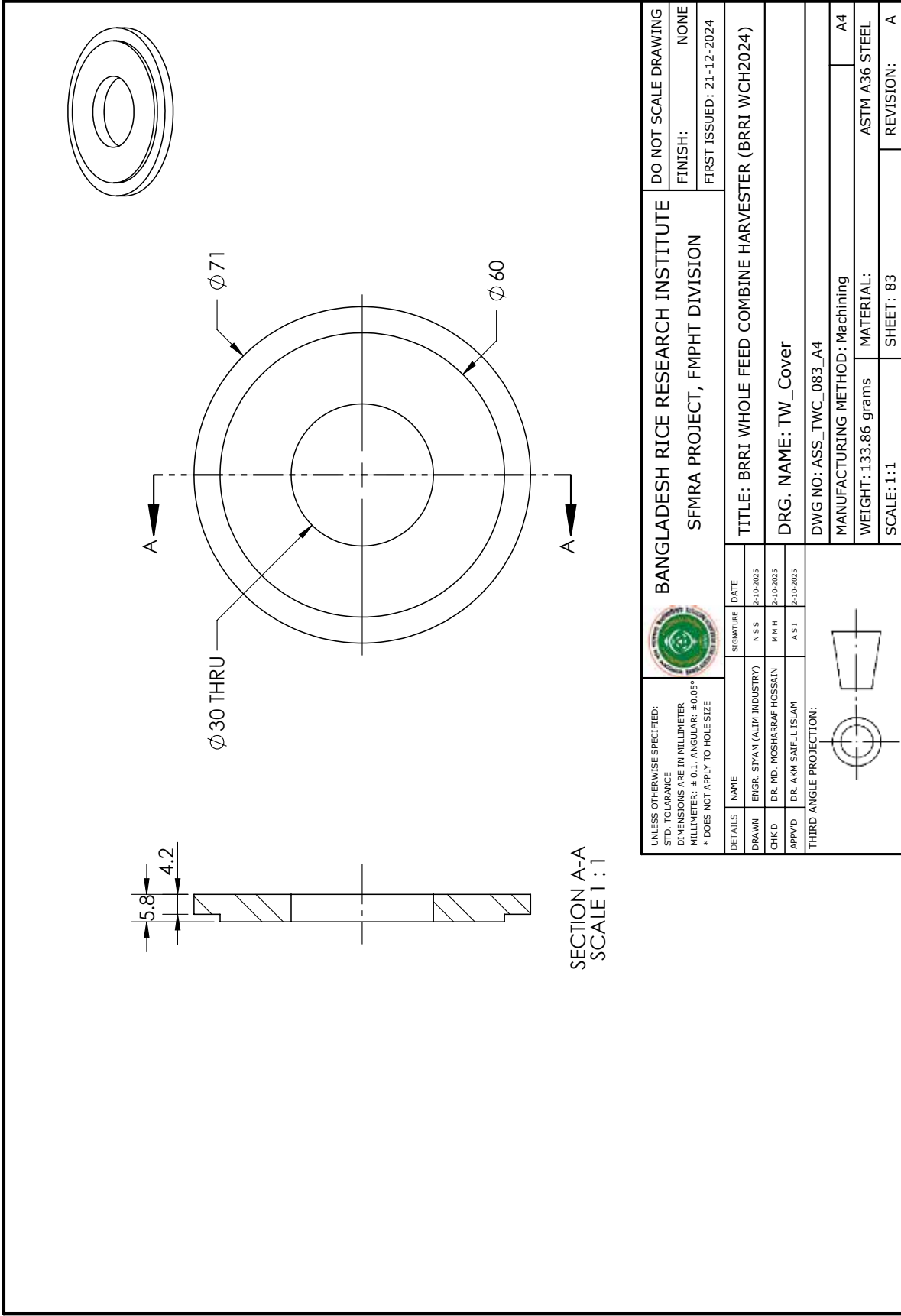
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: TW_Bearing-01			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_TW01_080_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:				WEIGHT: 60 grams			
				MATERIAL: BEARING STEEL			
				SCALE: 1:1			
				SHEET: 80			
				REVISION: A			




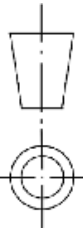
THRUST WHEEL SHAFT BEARING
BEARING NO - 6306 DIMENSION
OD72 X ID30 X W19

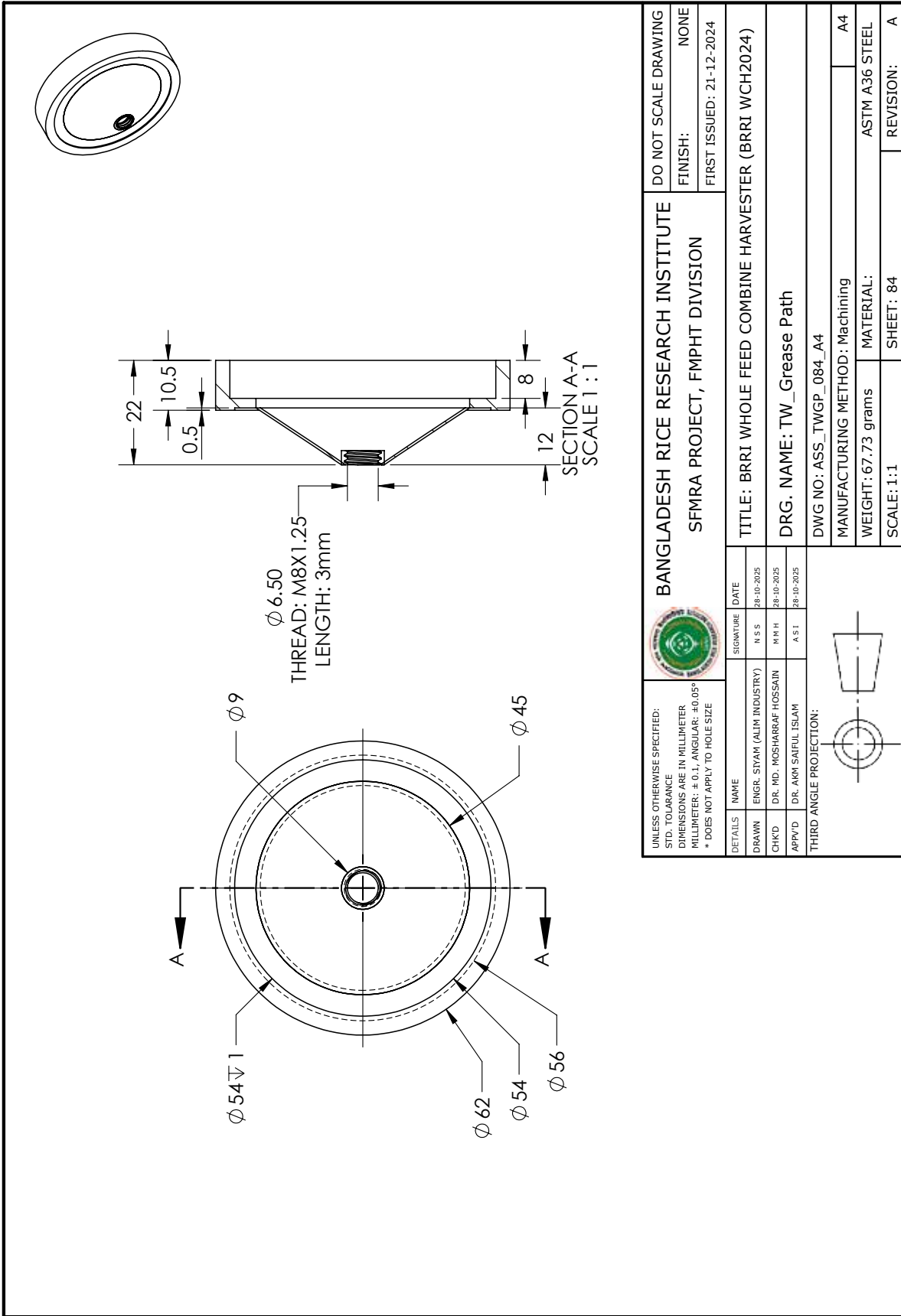
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME DRAWN ENGR. SIYAM (ALIM INDUSTRY) CHK'D DR. MD. MOSHARRAF HOSSAIN APP'D DR. AKM SAIFUL ISLAM		SIGNATURE N S S M H H A S I		DATE 2-10-2025 2-10-2025 2-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: TW_Bearing-02 DWG NO: ASS_TW02_081_A4	
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Machining WEIGHT: 200 grams SCALE: 1:1		MATERIAL: BEARING STEEL SHEET: 81 REVISION: A	

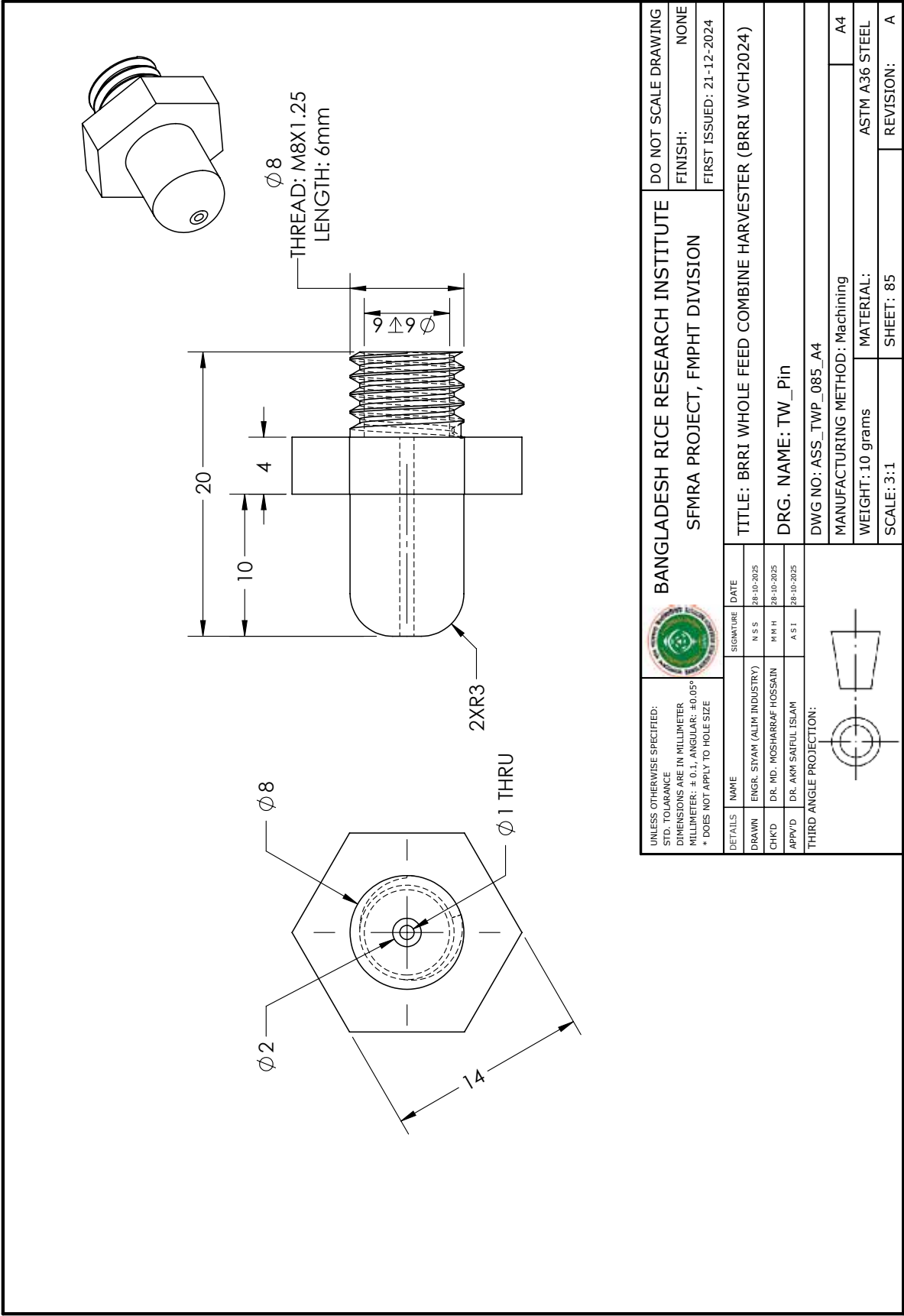


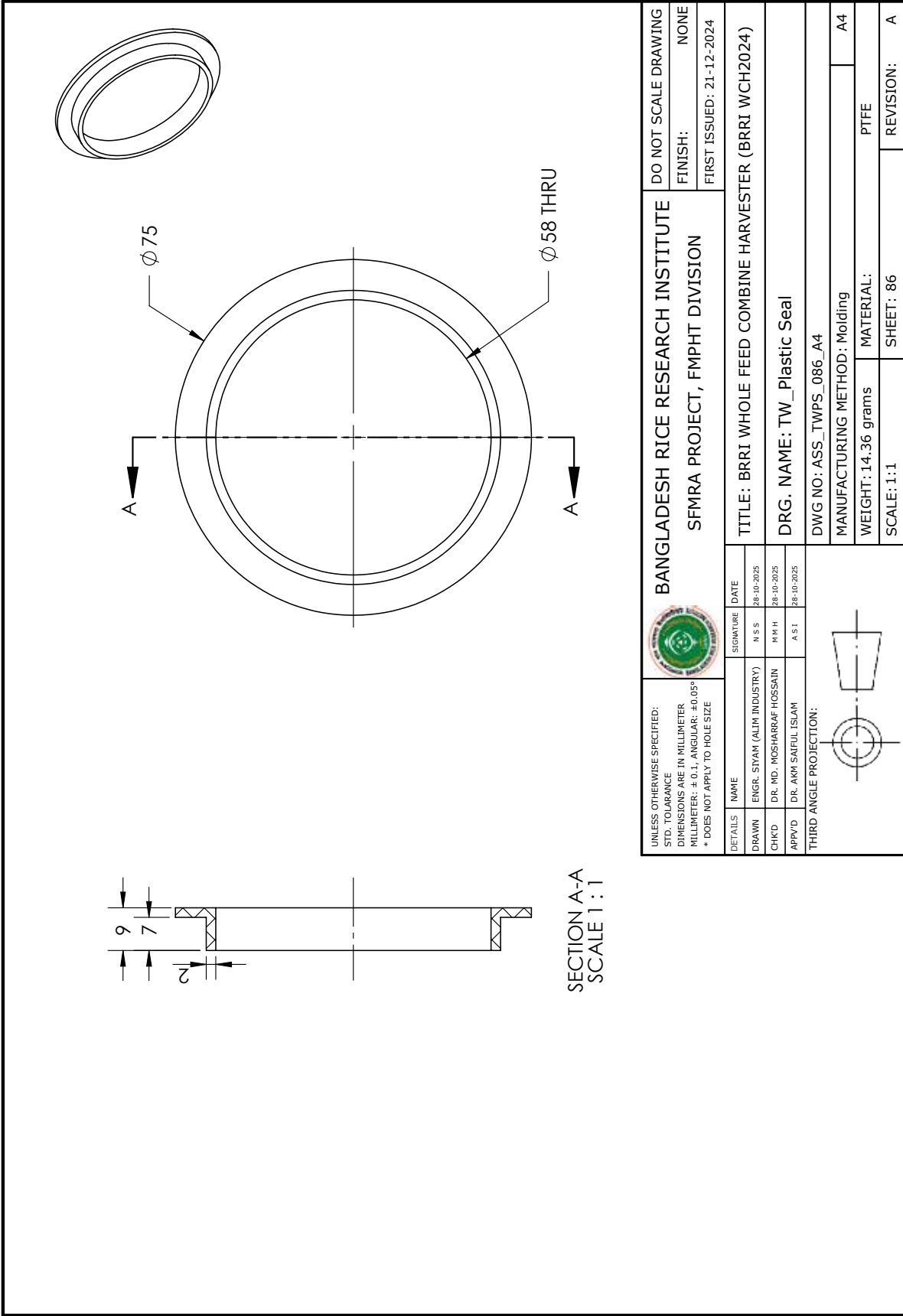


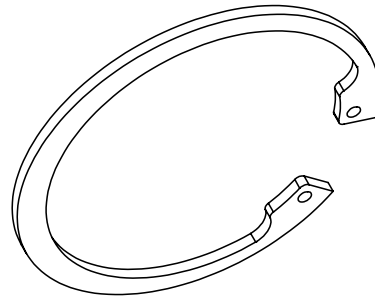
SECTION A-A
SCALE 1 : 1

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: TW_Cover			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO.: ASS_TWC_083_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:							
				WEIGHT: 133.86 grams		MATERIAL: ASTM A36 STEEL	
				SCALE: 1:1		SHEET: 83	
						REVISION: A	


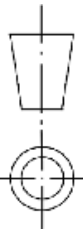


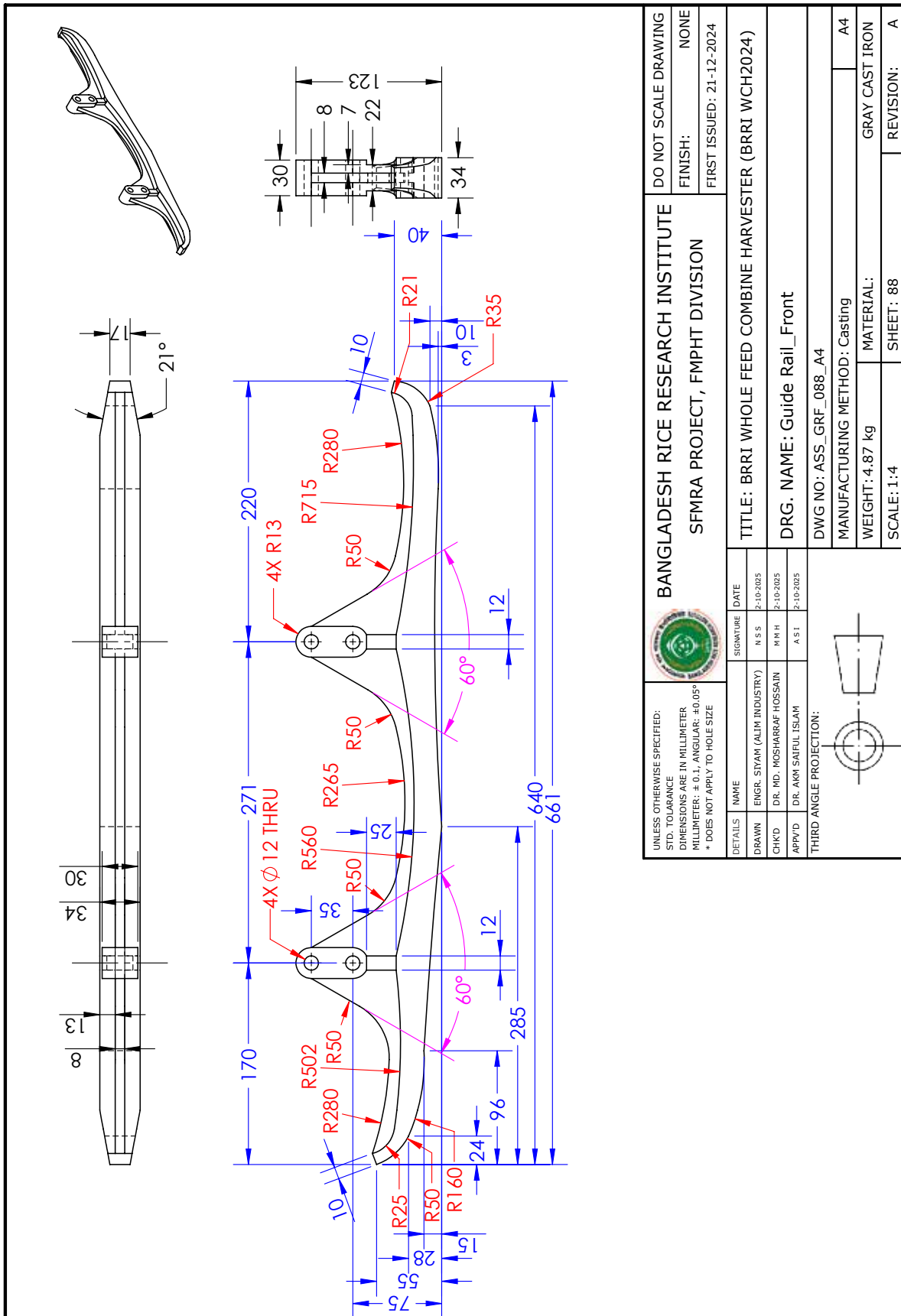


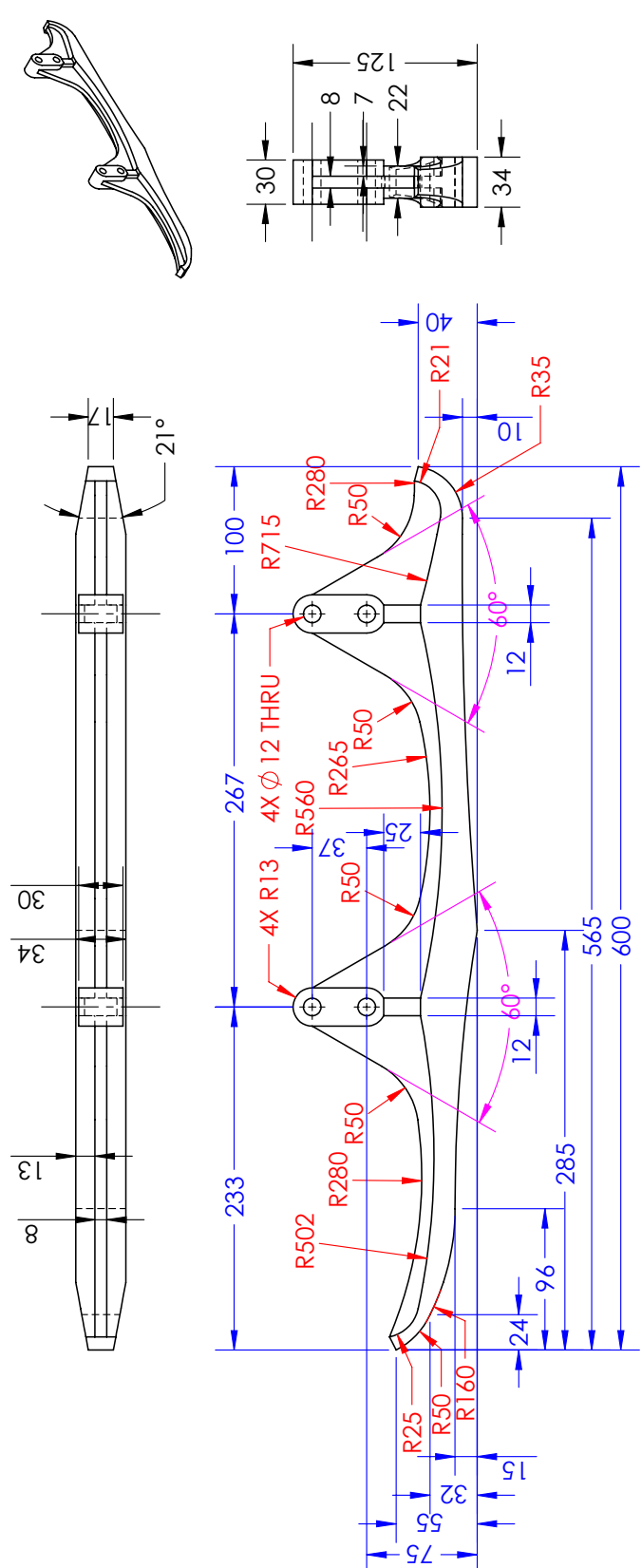



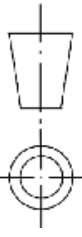


Basic Internal Ring
OD 65mm I 2mm

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS DRAWN: ENGR. SIYAM (ALIM INDUSTRY) CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'VD: DR. AKM SAIFUL ISLAM		SIGNATURE N S S M R H A S I		DATE 2-10-2025 2-10-2025 2-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: TW_Internal Ring DWG NO.: ASS_TWIR_087_A4	
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Machining WEIGHT: 10.524 grams SCALE: 1:1		MATERIAL: CARBON SPRING STEEL SHEET: 87 REVISION: A	



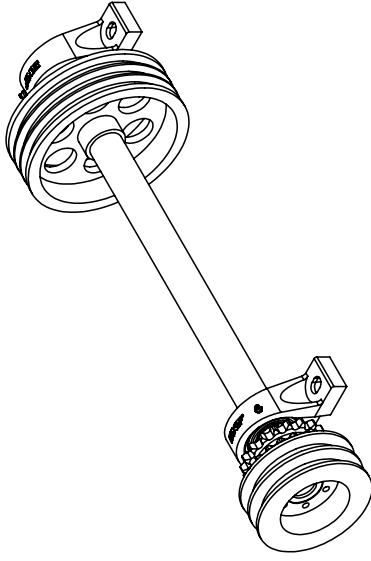



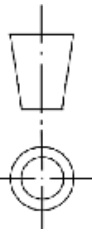
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE			BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
	DRAWN: ENGR. SIYAM (ALIM INDUSTRY)	CHECKED: DR. MD. MOSHARRAF HOSSAIN	APPROVED: DR. AKM SAIFUL ISLAM	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)	FINISH: NONE FIRST ISSUED: 21-12-2024
	DATE: 2-10-2025	DATE: 2-10-2025	DATE: 2-10-2025	DRG. NAME: Guide Rail_Rear	
THIRD ANGLE PROJECTION: 			DWG NO.: ASS_GRR_089_A4	MANUFACTURING METHOD: Casting	MATERIAL: GRAY CAST IRON
			WEIGHT: 4.23 kg	SCALE: 1:4	SHEET: 89
					REVISION: A

Sub- assembly 02
Main power section
Sheet no. 90 – 107

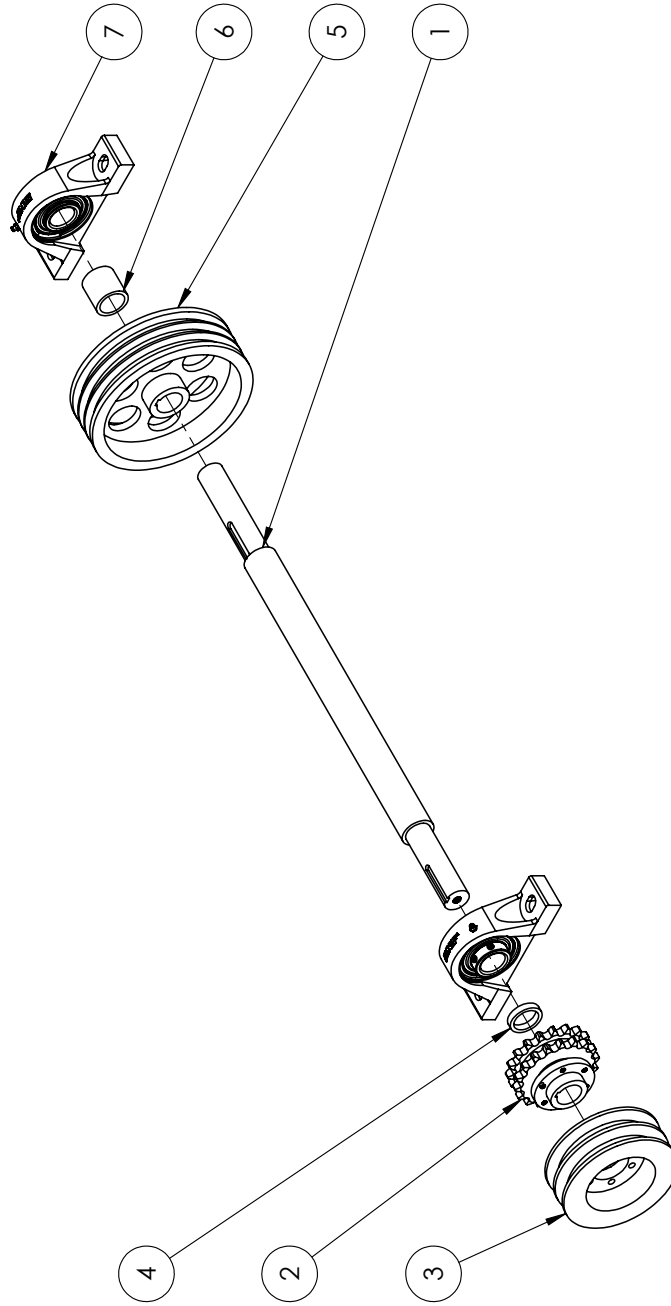
BILL OF MATERIAL: MAIN POWER SHAFT ASSEMBLY


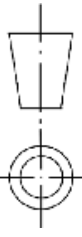
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Shaft of Driving Pulley	1	ASS_SDP_092_A4	ASTM A36 STEEL
2	Double Guard Sprocket - Flanged	1	ASS_DGSF_093_A4	ASTM A36 STEEL
3	Double Guard Pulley - C161	1	ASS_DGPC_094_A4	GRAY CAST IRON
4	Driving Pulley Bush-01	1	ASS_DPB01_095_A4	ASTM A36 STEEL
5	Power Transmission Pulley - 3G227	1	ASS_PTP3G_096_A4	GRAY CAST IRON
6	Driving Pulley Bush-02	1	ASS_DPB02_097_A4	ASTM A36 STEEL
7	UCP 307 Bearing Set	2	ASS_UCP307_098_A4	CAST IRON, BEARING STEEL

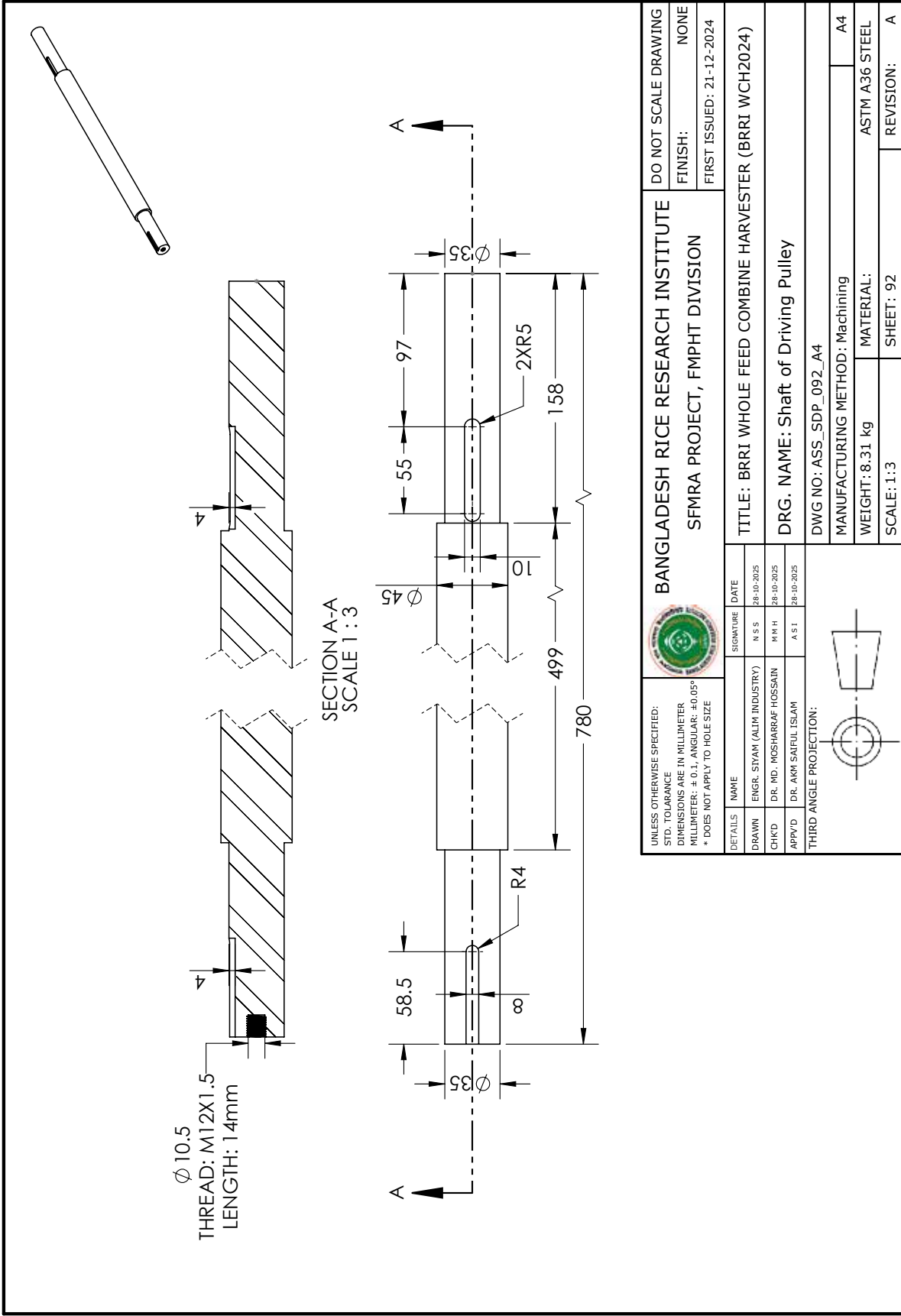


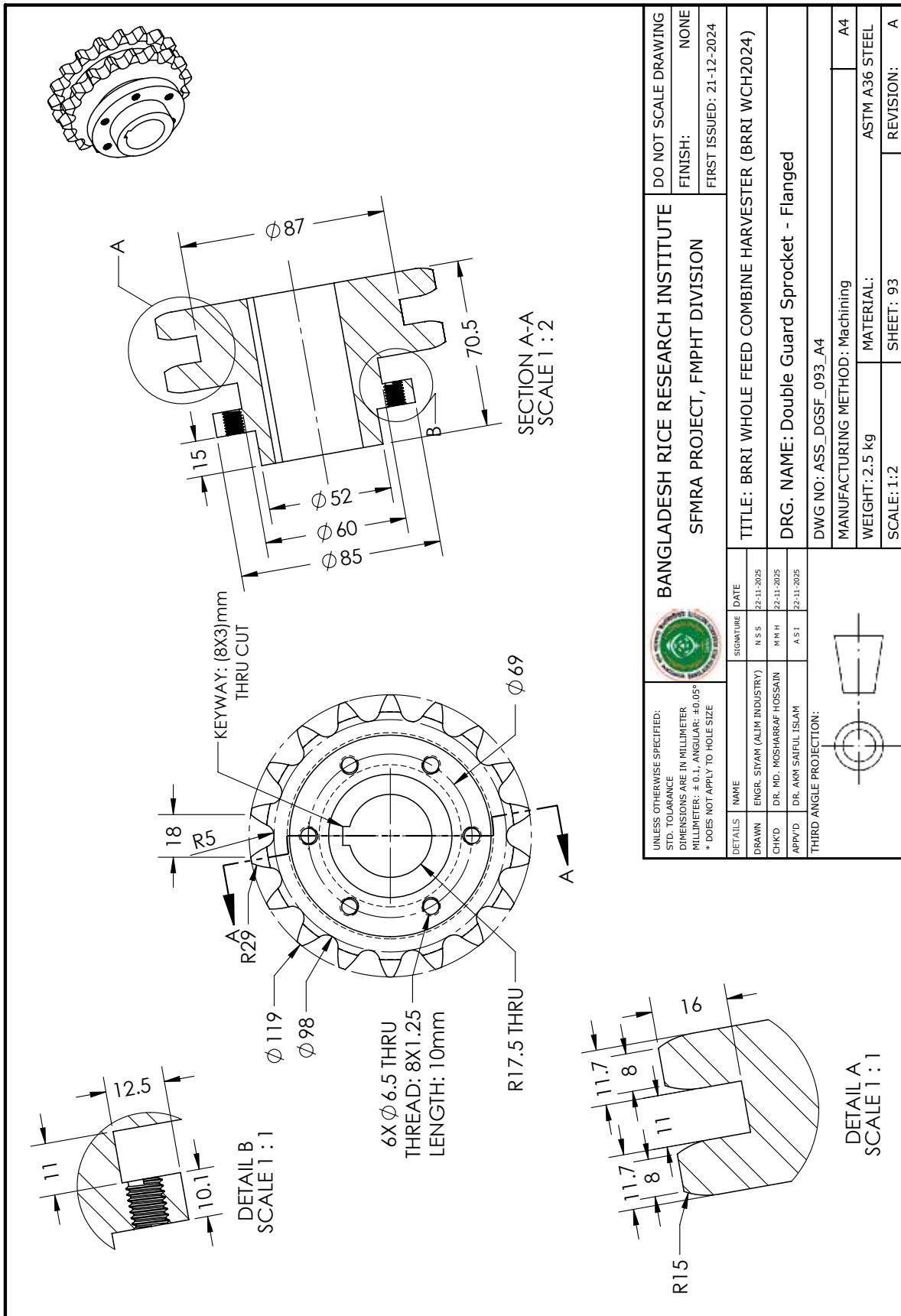
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	
THIRD ANGLE PROJECTION:		TITLE: BRR I WHOLE FEED COMBINE HARVESTER (BRR I WCH2024)		
		DRG. NAME: Main Power Shaft Assembly		
		DWG NO: ASS_MPSA_090_A4		
		MANUFACTURING METHOD: Machining, Casting		
		WEIGHT: ~27 Kg	MATERIAL: A4	
		SCALE: 1:8	SHEET: 90	
			REVISION: A	

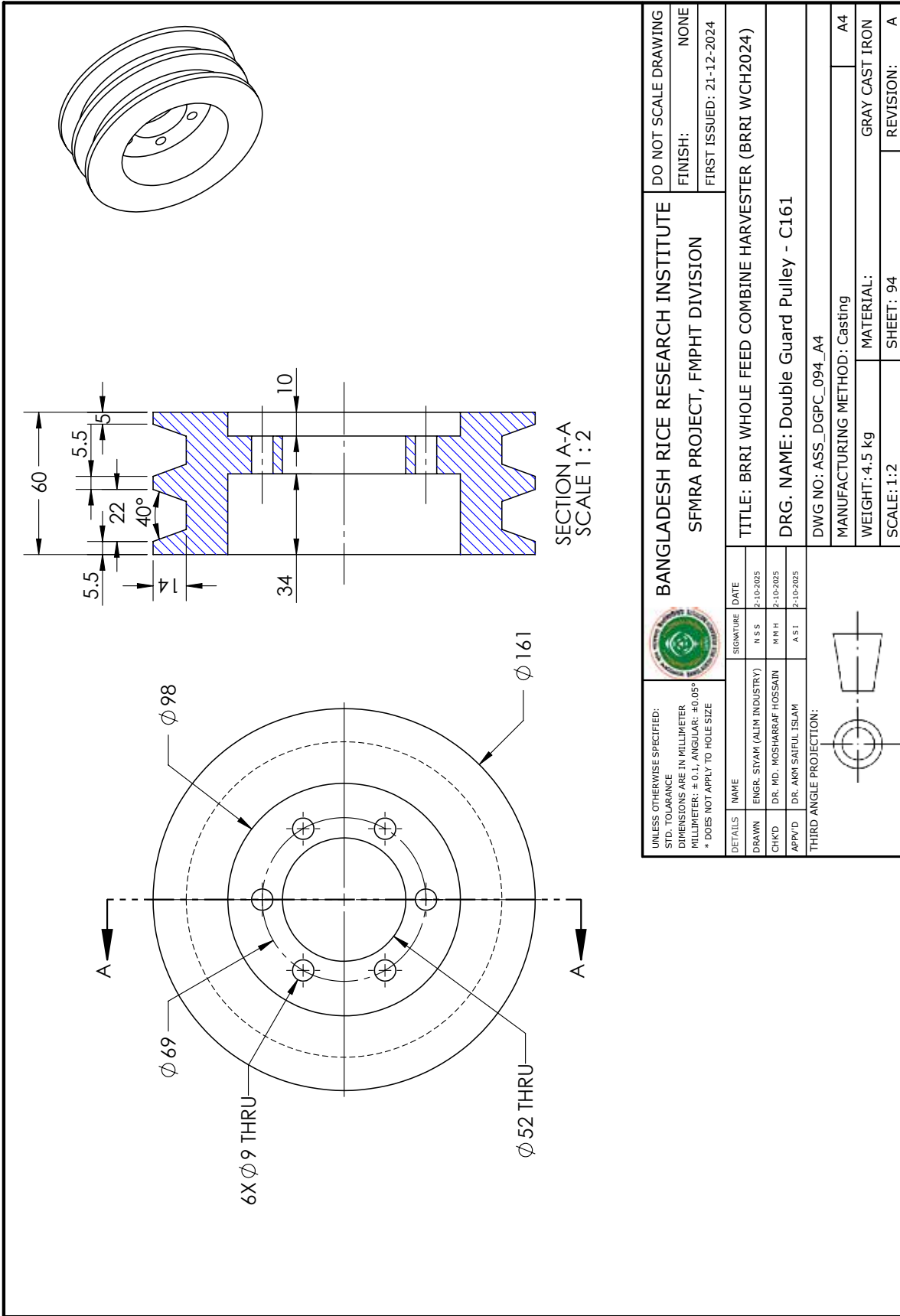
EXPLODED VIEW: MAIN POWER SHAFT ASSEMBLY


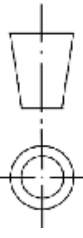


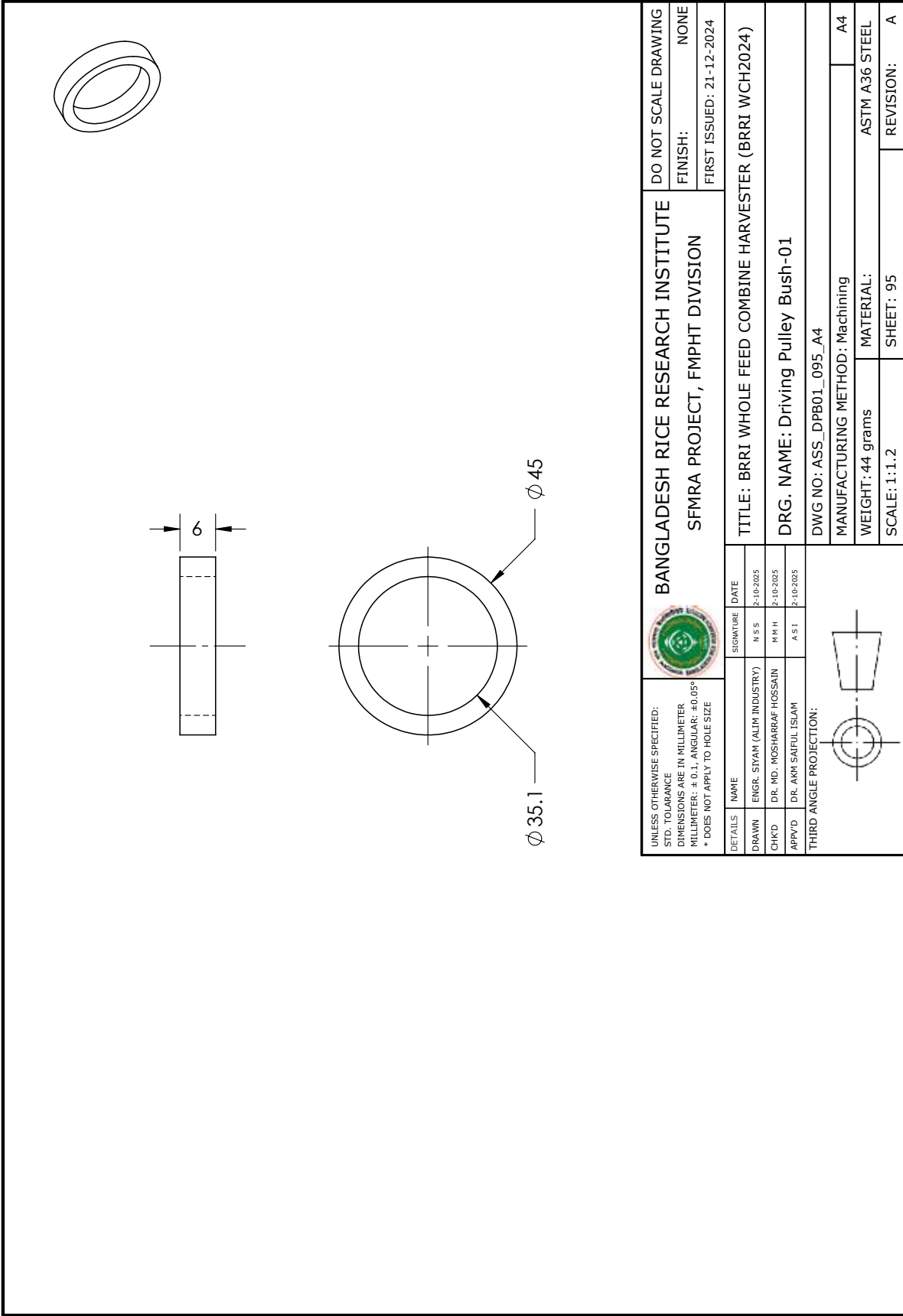
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M N H	2-10-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	
THIRD ANGLE PROJECTION:		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Main Power Shaft Assembly DWG NO: ASS_MPSA_091_A4 MANUFACTURING METHOD: Machining, Casting WEIGHT: ~27 kg MATERIAL: SCALE: 1:8		
		SHEET: 91		REVISION: A


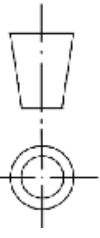


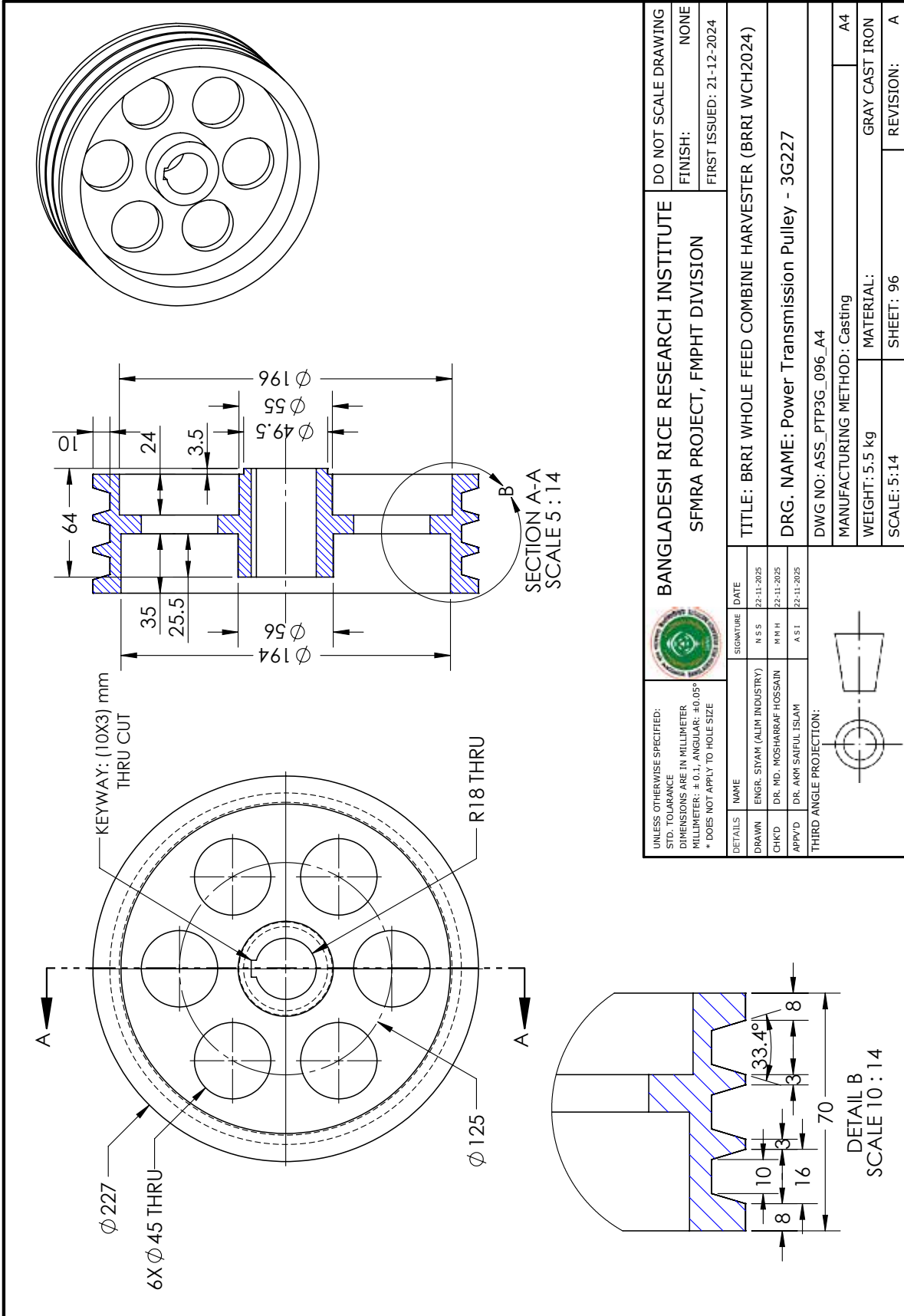



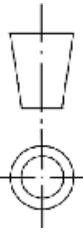


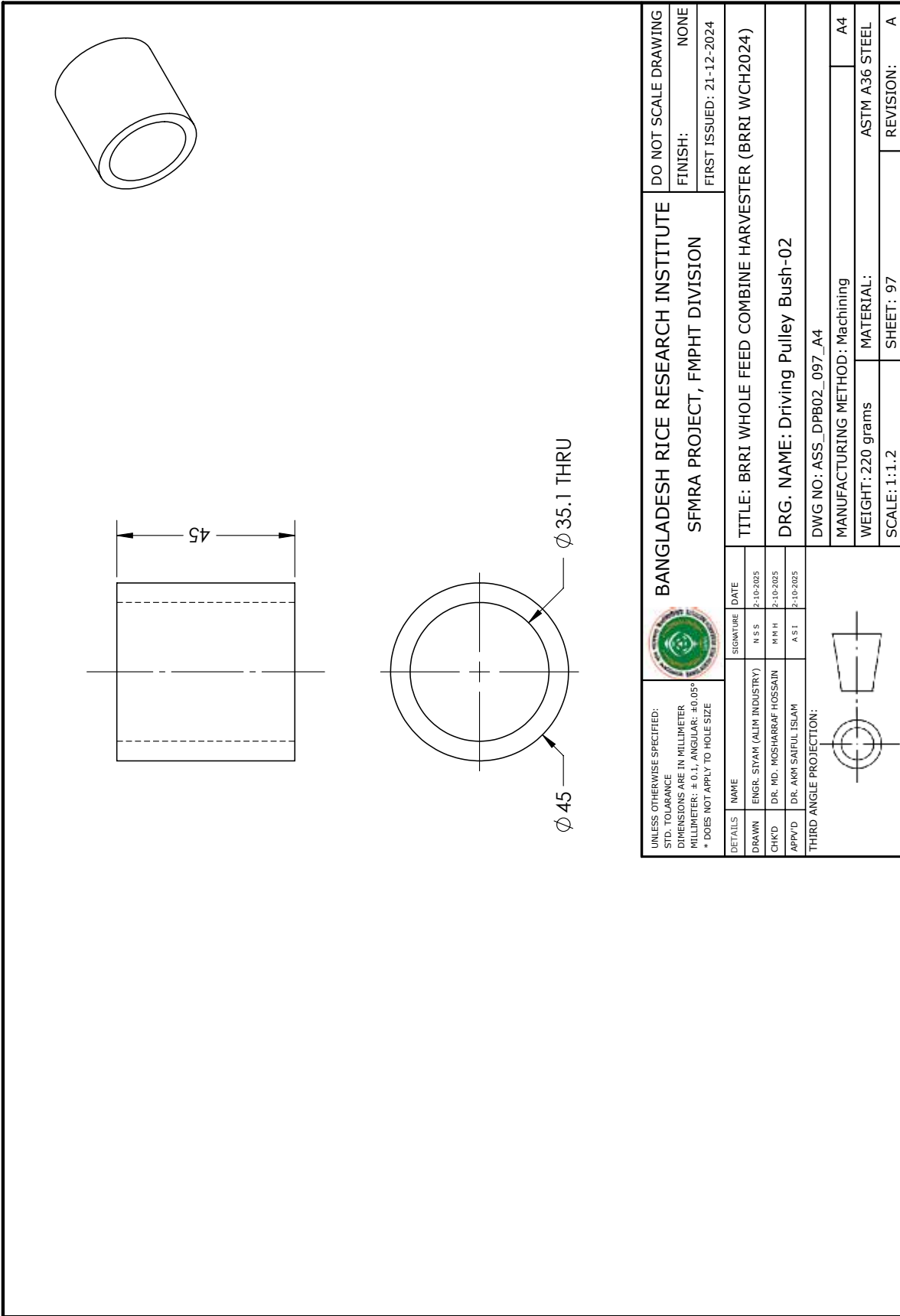
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Double Guard Pulley - C161			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO.: ASS_DGPC_094_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Casting			
THIRD ANGLE PROJECTION:							
				WEIGHT: 4.5 kg		MATERIAL: GRAY CAST IRON	
				SCALE: 1:2		SHEET: 94	
						REVISION: A	


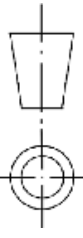


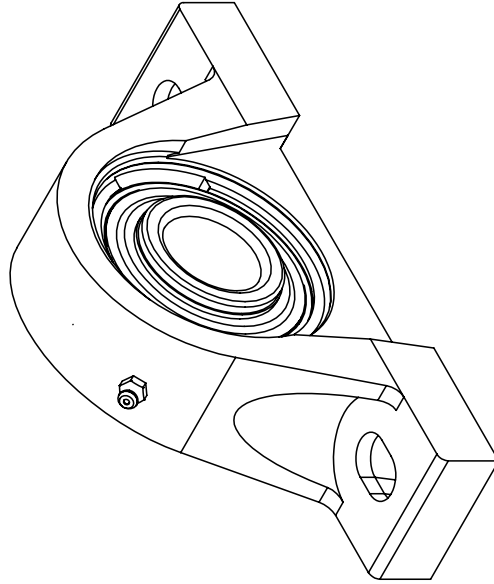
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Driving Pulley Bush-01			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_DPB01_095_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:				WEIGHT: 44 grams			
				MATERIAL: ASTM A36 STEEL			
				SCALE: 1:1.2			
				SHEET: 95			
				REVISION: A			




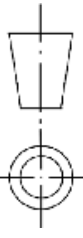
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BIRRI WHOLE FEED COMBINE HARVESTER (BIRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	22-11-2025	DRG. NAME: Power Transmission Pulley - 3G227			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	22-11-2025	DWG NO.: ASS_PTP3G_096_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	22-11-2025	MANUFACTURING METHOD: Casting MATERIAL: GRAY CAST IRON WEIGHT: 5.5 kg SCALE: 5:14 SHEET: 96 REVISION: A			
THIRD ANGLE PROJECTION:							

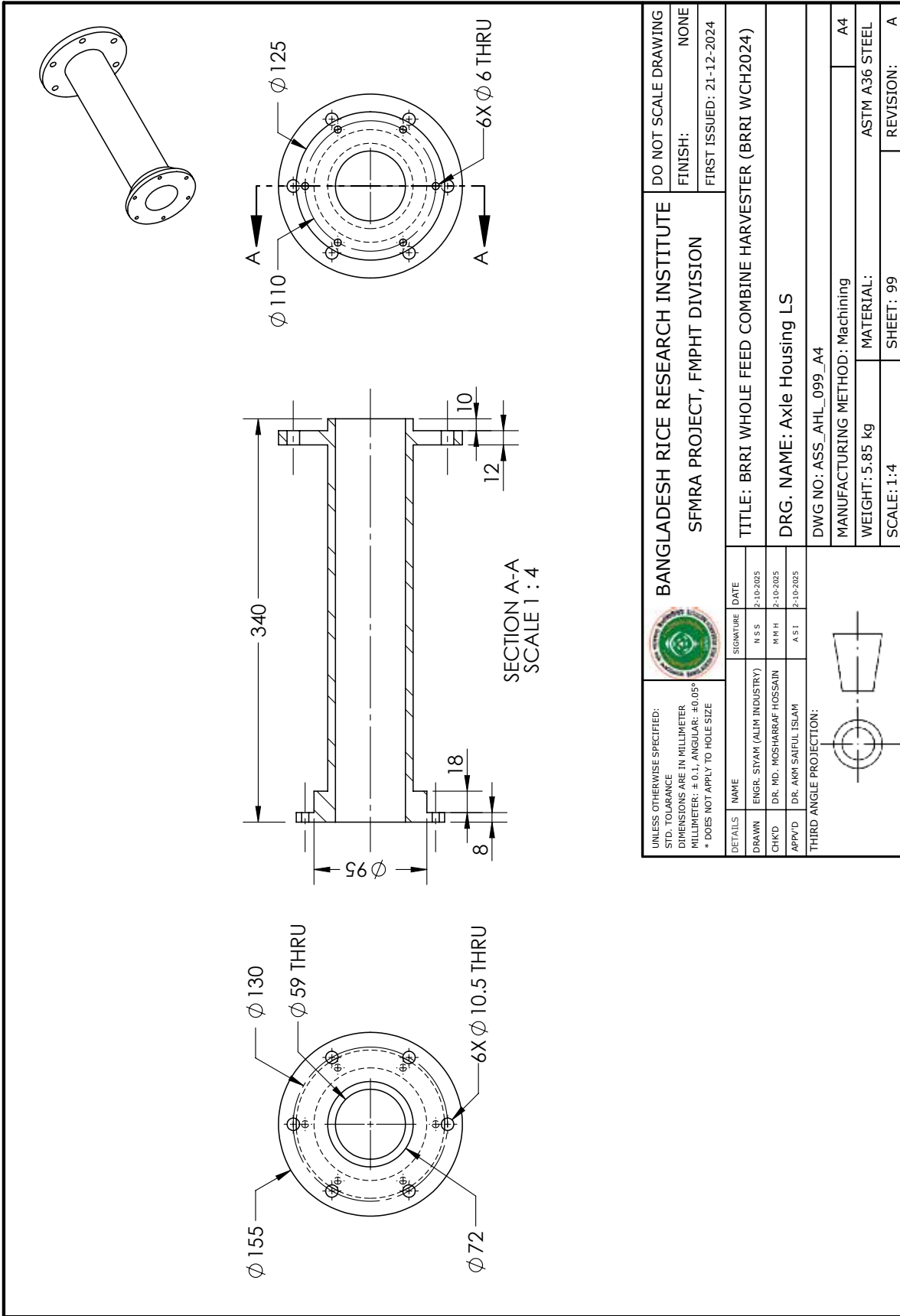



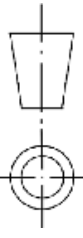
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		FINISH: NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Driving Pulley Bush-02		FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_DPB02_097_A4		
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining		
THIRD ANGLE PROJECTION:					WEIGHT: 220 grams	
					MATERIAL: ASTM A36 STEEL	
					SCALE: 1:1.2	
					SHEET: 97	
					REVISION: A	

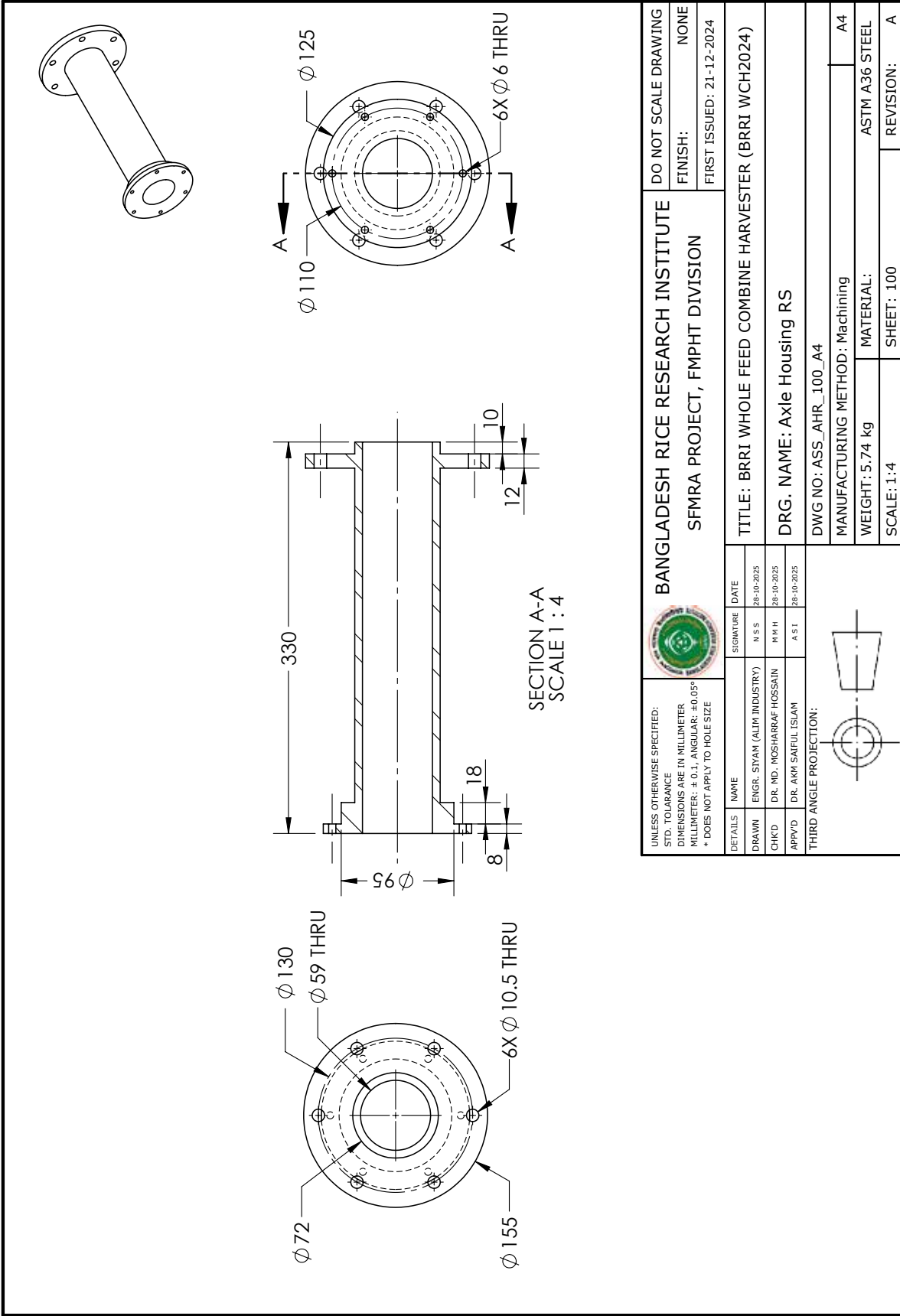


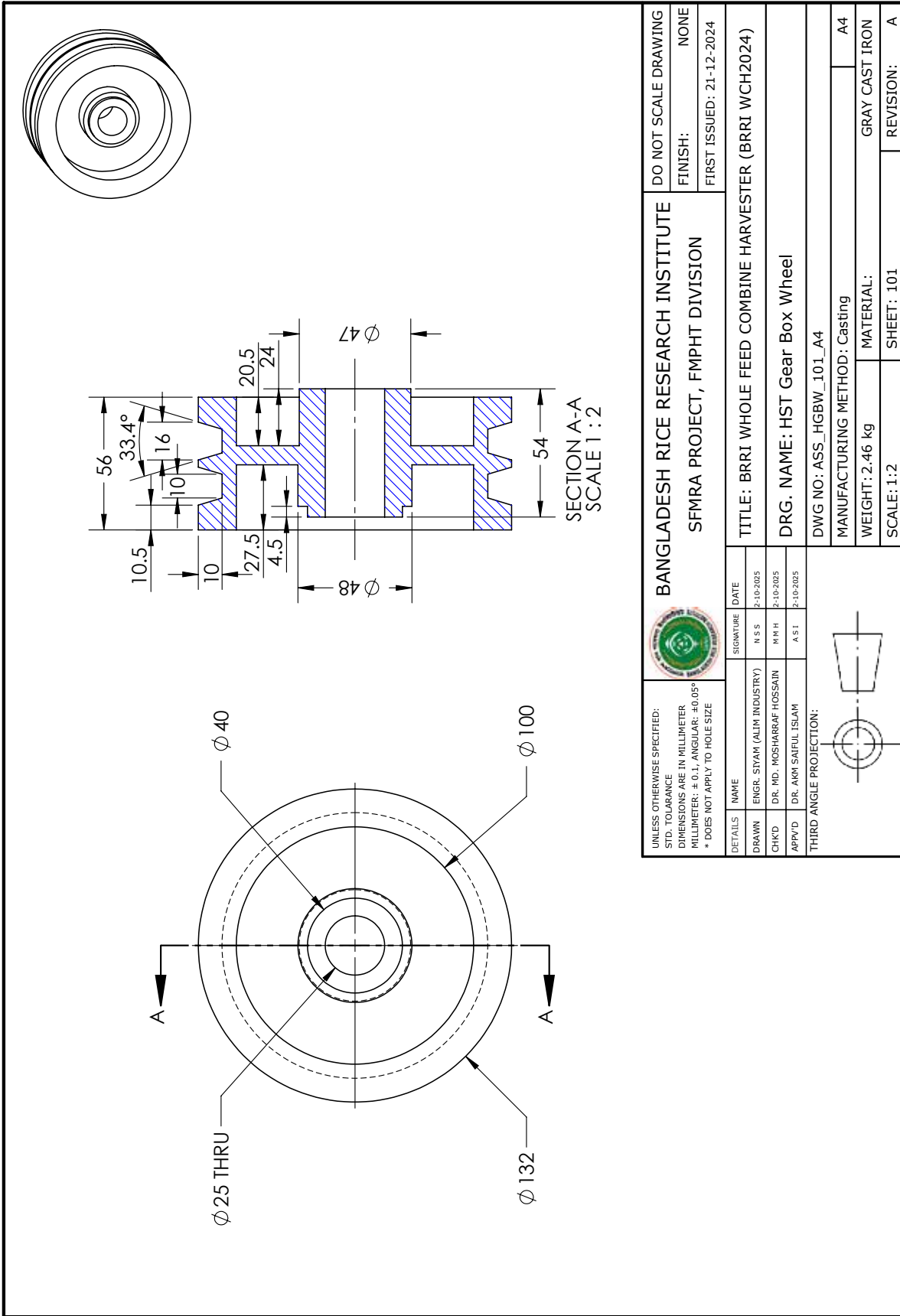
UCP 307 Bearing Set


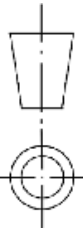
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME DRAWN ENGR. SIYAM (ALIM INDUSTRY) CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM		SIGNATURE N S S M R H A S I		DATE 2-10-2025 2-10-2025 2-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: UCP 307 Bearing Set DWG NO.: ASS_UCP307_098_A4	
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Machining, Casting WEIGHT: 3 kg SCALE: 1:2		MATERIAL: CAST IRON, BEARING STEEL SHEET: 98 REVISION: A	

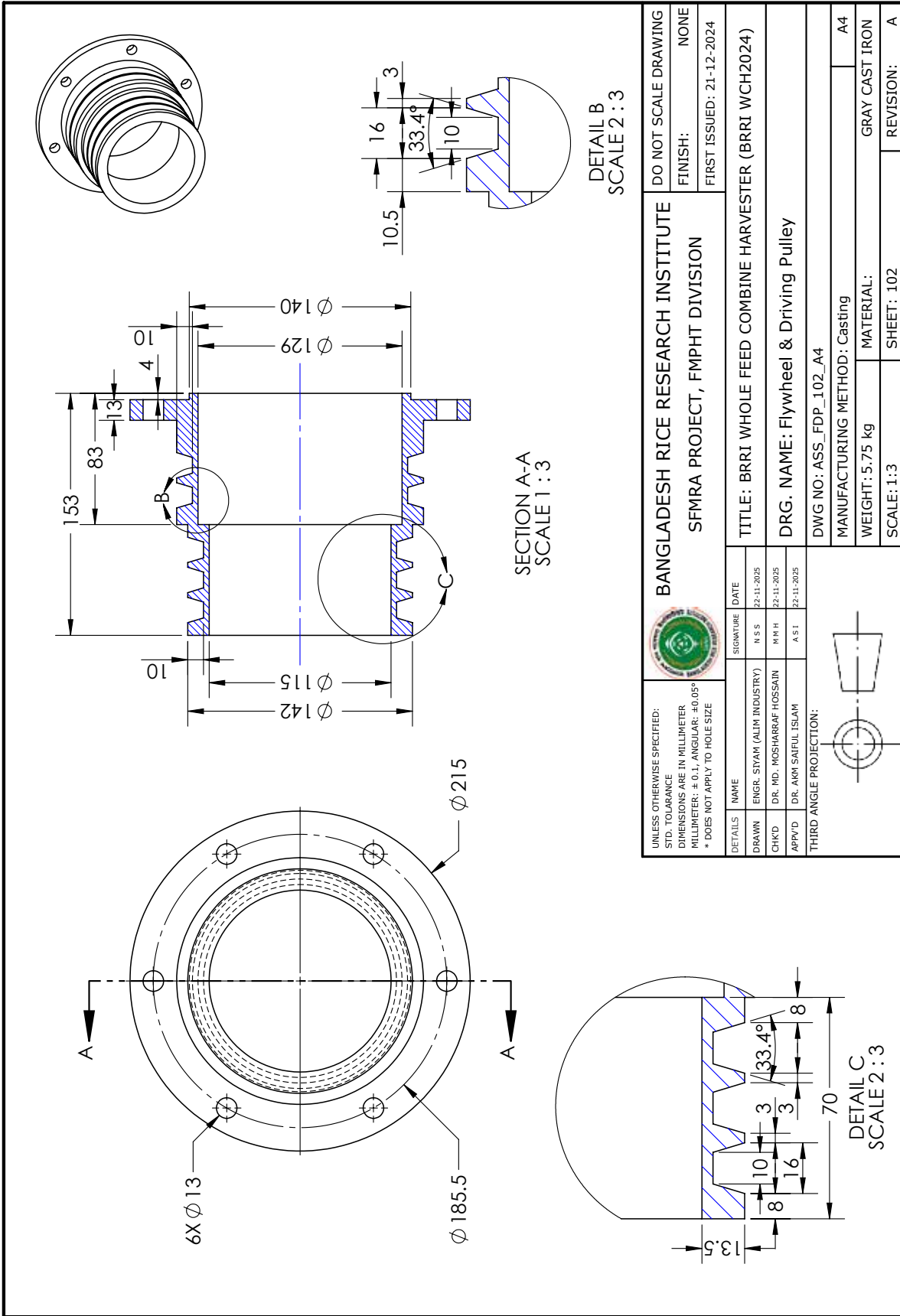



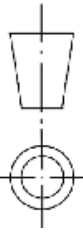
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRR I WHOLE FEED COMBINE HARVESTER (BRR I WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Axle Housing LS			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_AHL_099_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:				WEIGHT: 5.85 kg			
				MATERIAL: ASTM A36 STEEL			
				SCALE: 1:4			
				SHEET: 99			
				REVISION: A			

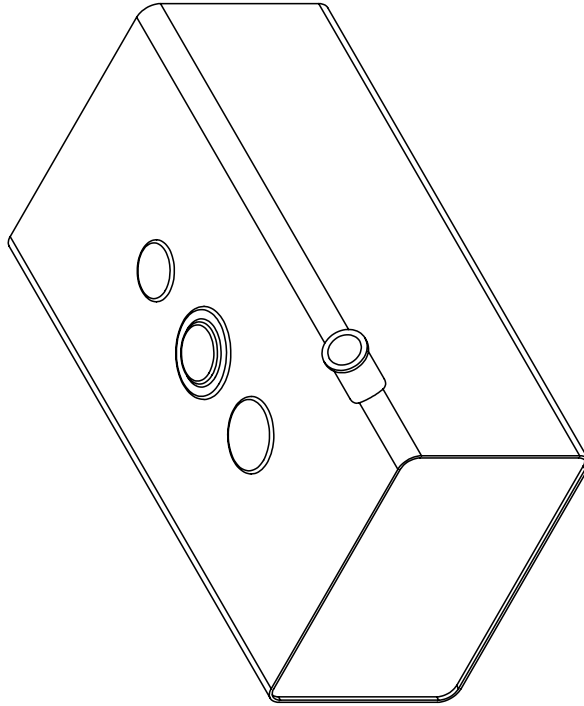





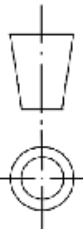
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: HST Gear Box Wheel			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_HGBW_101_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Casting			
THIRD ANGLE PROJECTION:							
				WEIGHT: 2.46 kg		MATERIAL: GRAY CAST IRON	
				SCALE: 1:2		SHEET: 101	
						REVISION: A	



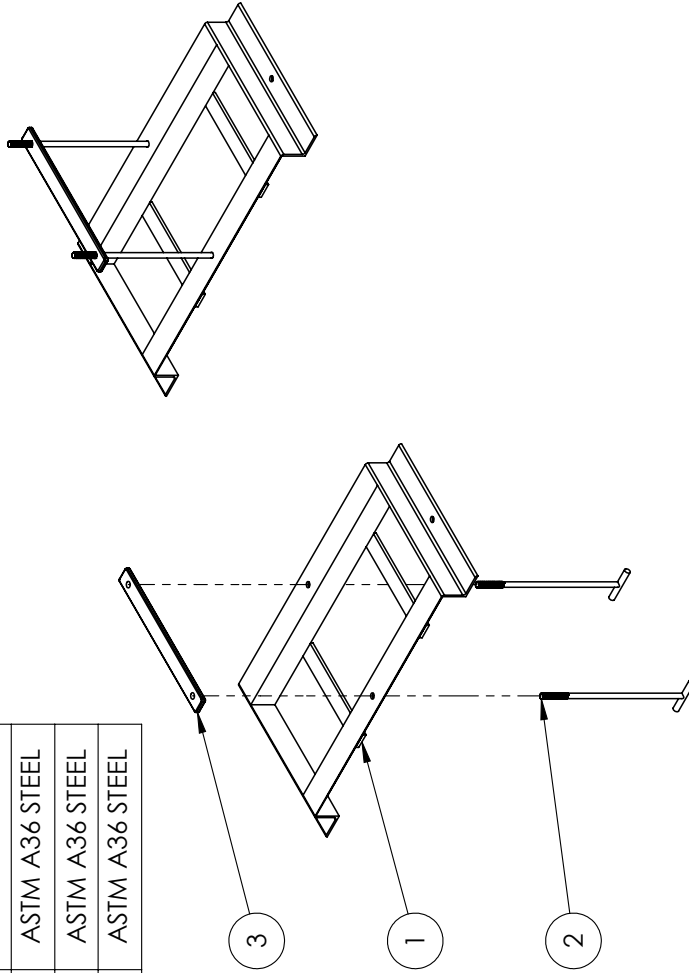
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BARRI WHOLE FEED COMBINE HARVESTER (BARRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	22-11-2025	DRG. NAME: Flywheel & Driving Pulley			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	22-11-2025	DWG NO.: ASS_FDP_102_A4			
APP'VD	DR. AKI SAIFUL ISLAM	A S I	22-11-2025	MANUFACTURING METHOD: Casting			
THIRD ANGLE PROJECTION:						MATERIAL: GRAY CAST IRON	
				WEIGHT: 5.75 kg		SCALE: 1:3	
				SHEET: 102		REVISION: A	


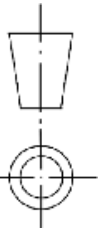


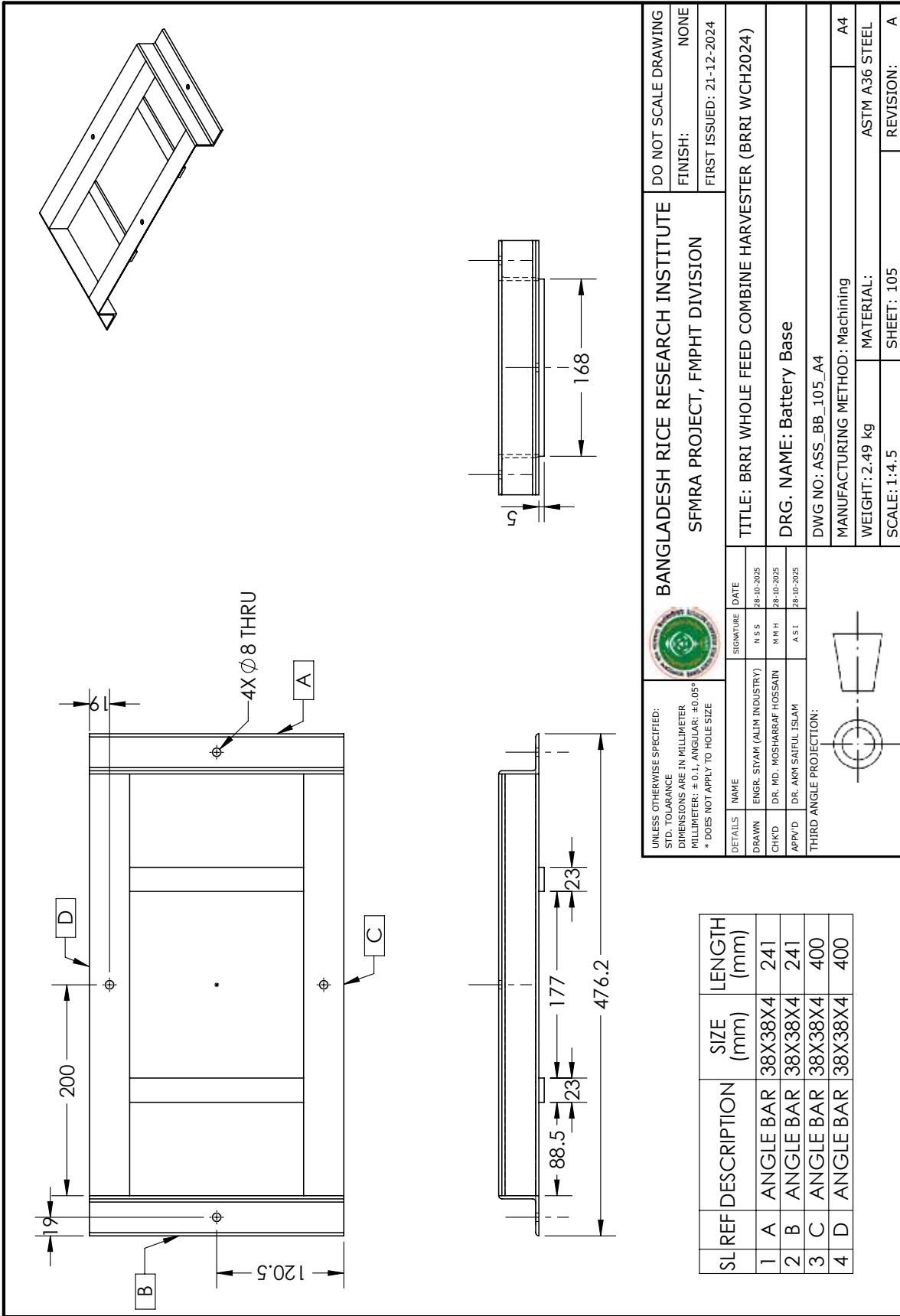
Diesel Type Fuel Tank
 Dimension: 825X450X300mm
 Sheet Thickness: 4mm

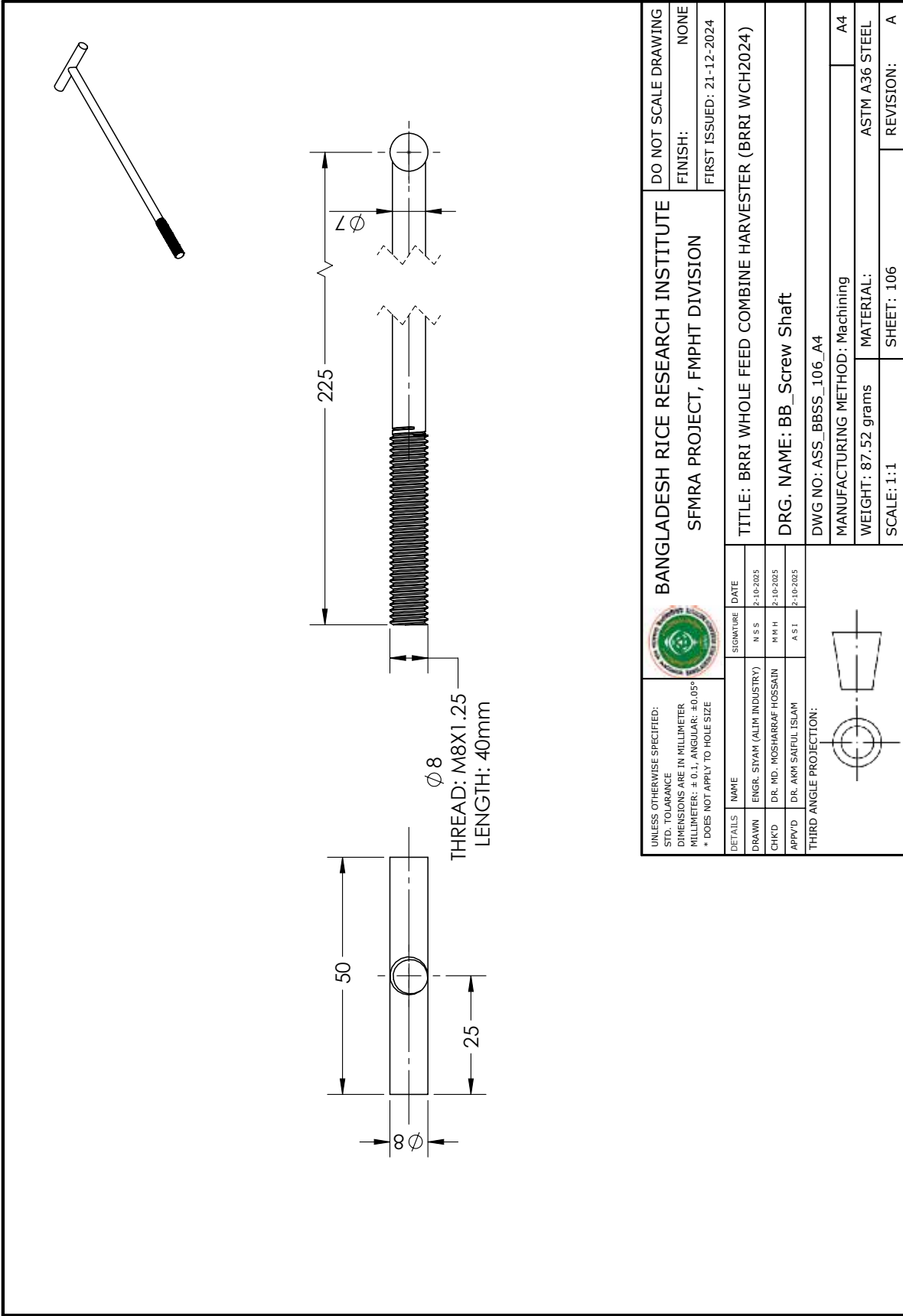
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Fuel Tank			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_FT_103_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:							
				WEIGHT: 4.68 kg		MATERIAL: ASTM A36 STEEL	
				SCALE: 1:8		SHEET: 103	
						REVISION: A	

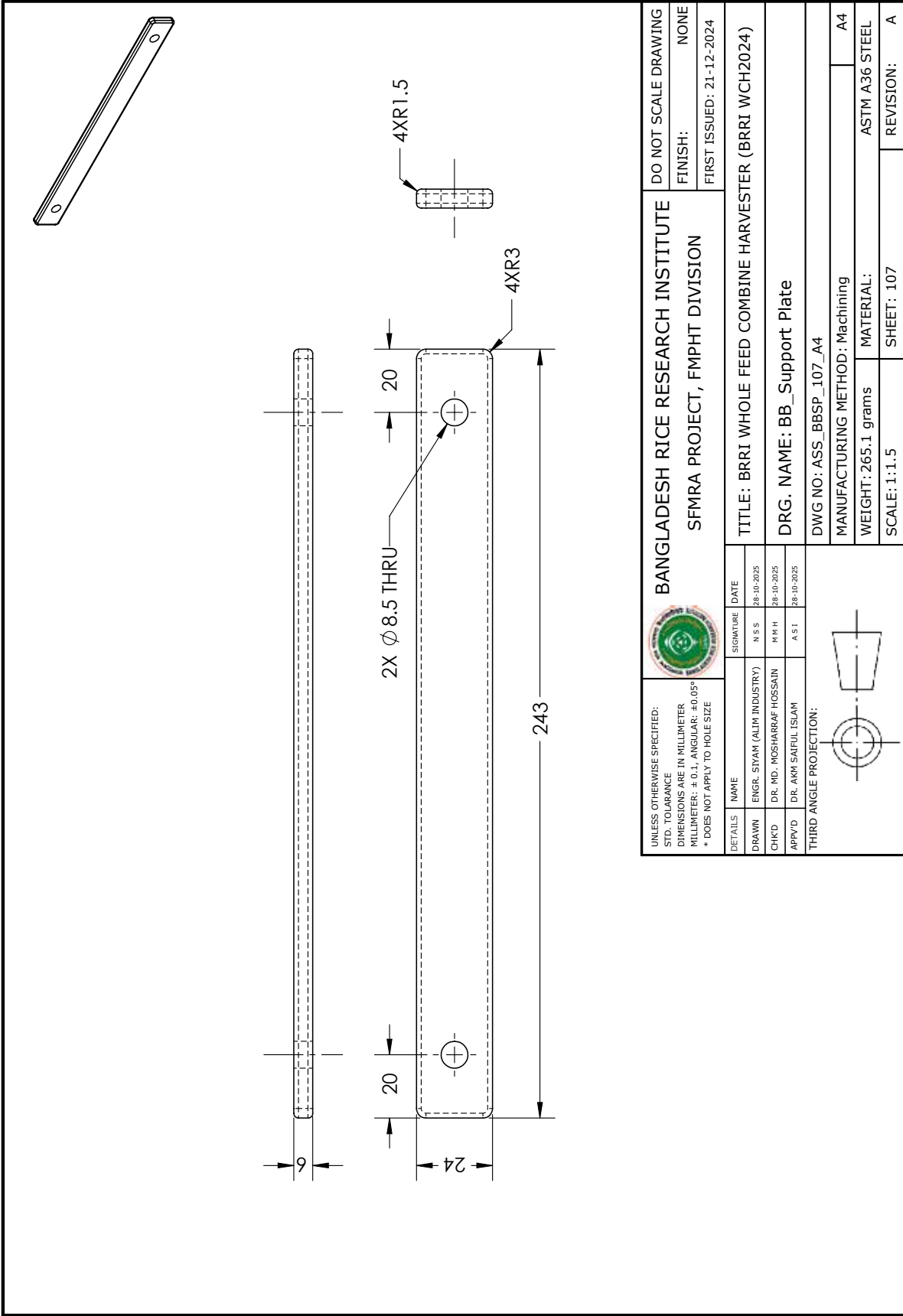
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Battery Base	1	ASS_BB_105_A4	ASTM A36 STEEL
2	BB_Screw Shaft	2	ASS_BBSS_106_A4	ASTM A36 STEEL
3	BB_Support Plate	1	ASS_BBSP_107_A4	ASTM A36 STEEL



UNLESS OTHERWISE SPECIFIED: STD. TOLARANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE			SIGNATURE N S S		DATE	2-10-2025	
			DRAWN ENGR. SIYAM (ALIM INDUSTRY)		M N H		2-10-2025
			CHK'D DR. MD. MOSHARRAF HOSSAIN		A S I		2-10-2025
THIRD ANGLE PROJECTION:							
							
BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION			DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024				
TITLE: BRR I WHOLE FEED COMBINE HARVESTER (BRR I WCH2024)							
DRG. NAME: Battery Base Comb.							
DWG NO.: ASS_BB_104_A4							
MANUFACTURING METHOD: Machining							
WEIGHT: 2.93 kg							
MATERIAL:							
SCALE: 1:8							
SHEET: 104							
REVISION: A							

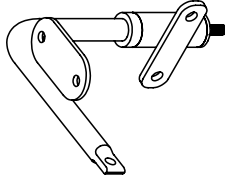
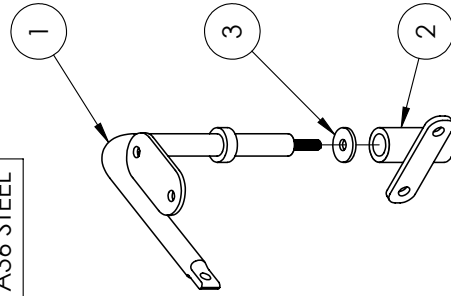



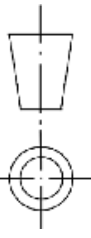


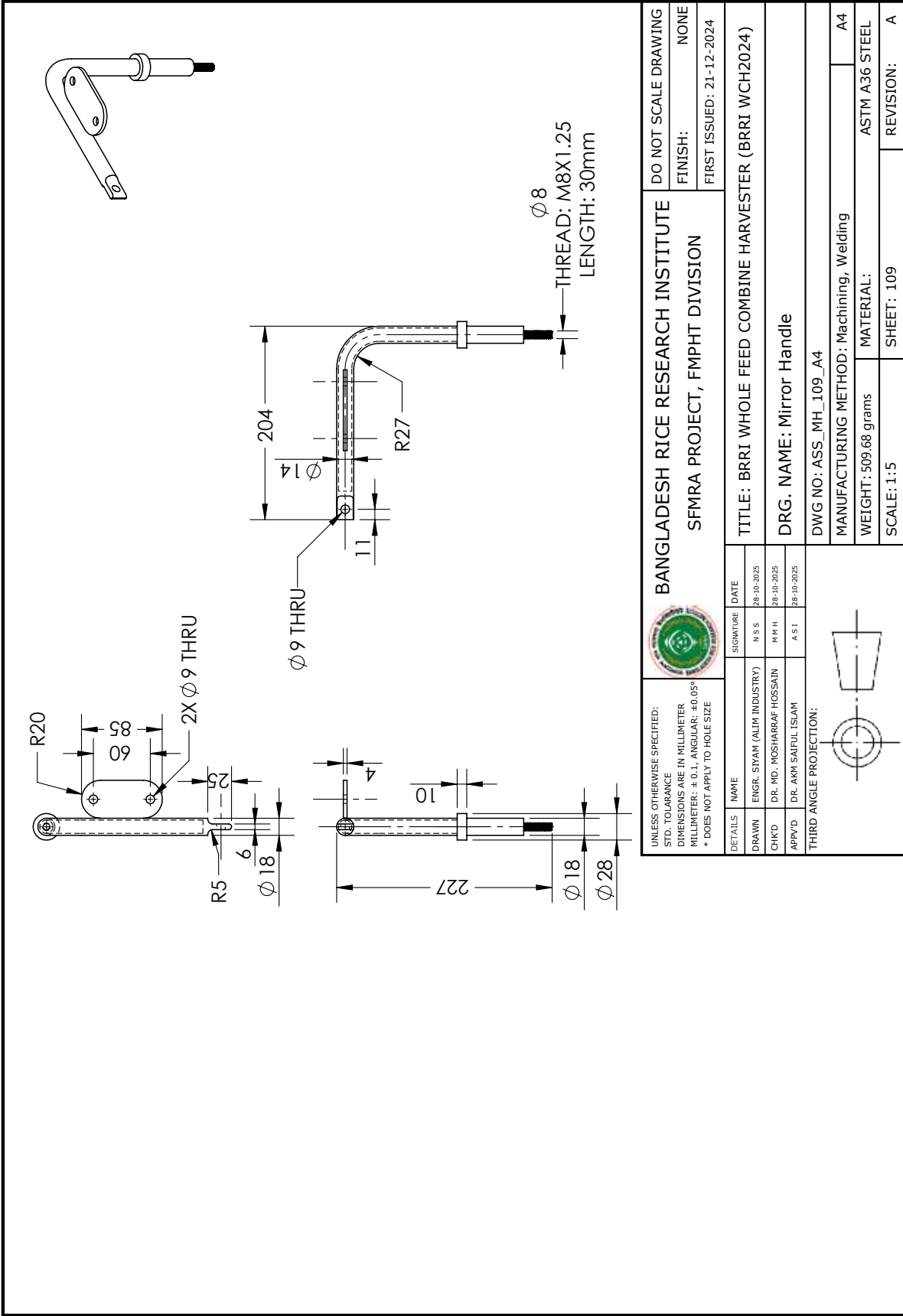


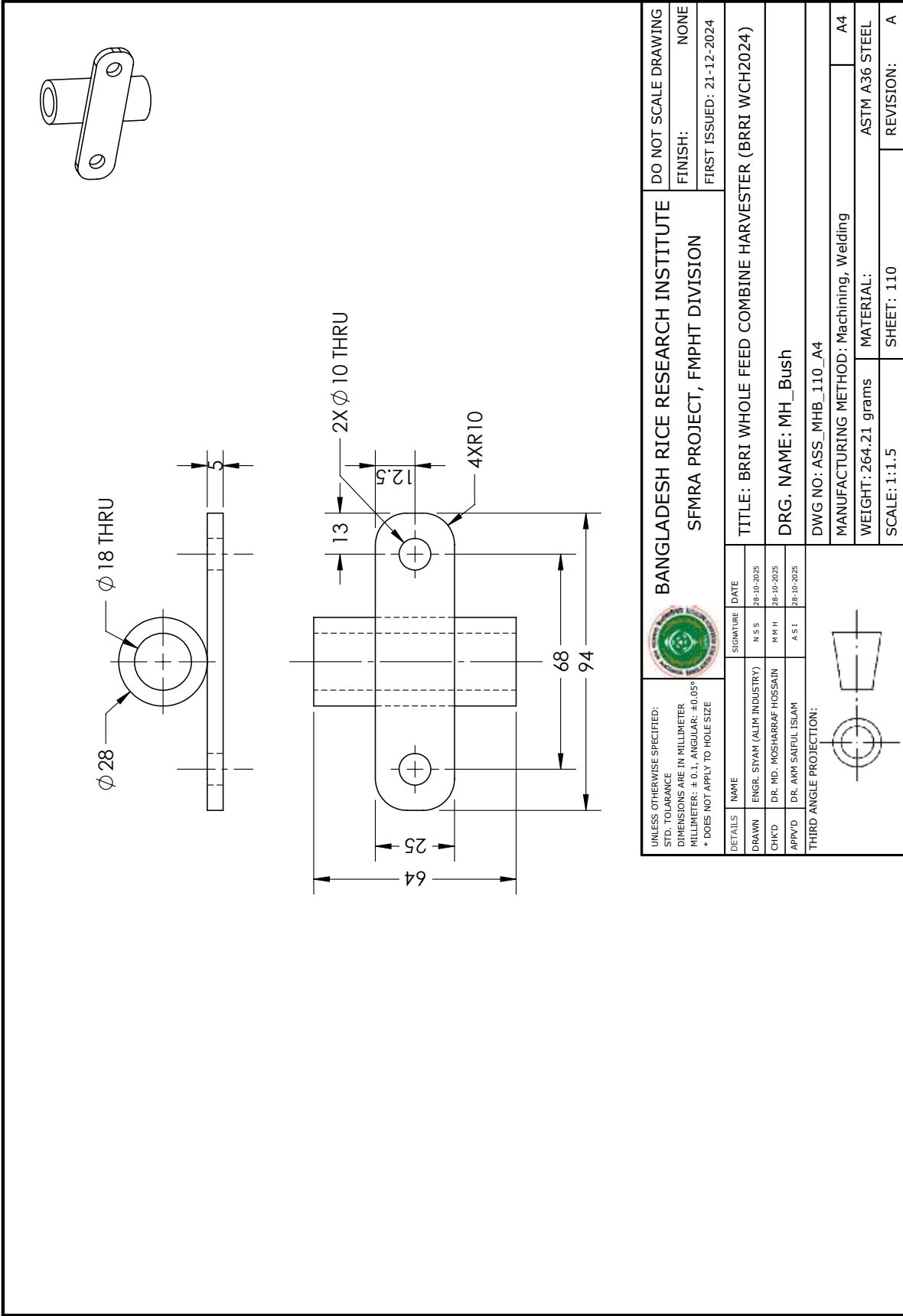
Sub- assembly 03
Operating section
Sheet no. 108 – 143


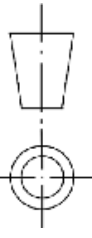
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Mirror Handle	1	ASS_MH_109_A4	ASTM A36 STEEL
2	MH_Bush	1	ASS_MHB_110_A4	ASTM A36 STEEL
3	MH_Washer	1	ASS_MHW_111_A4	ASTM A36 STEEL

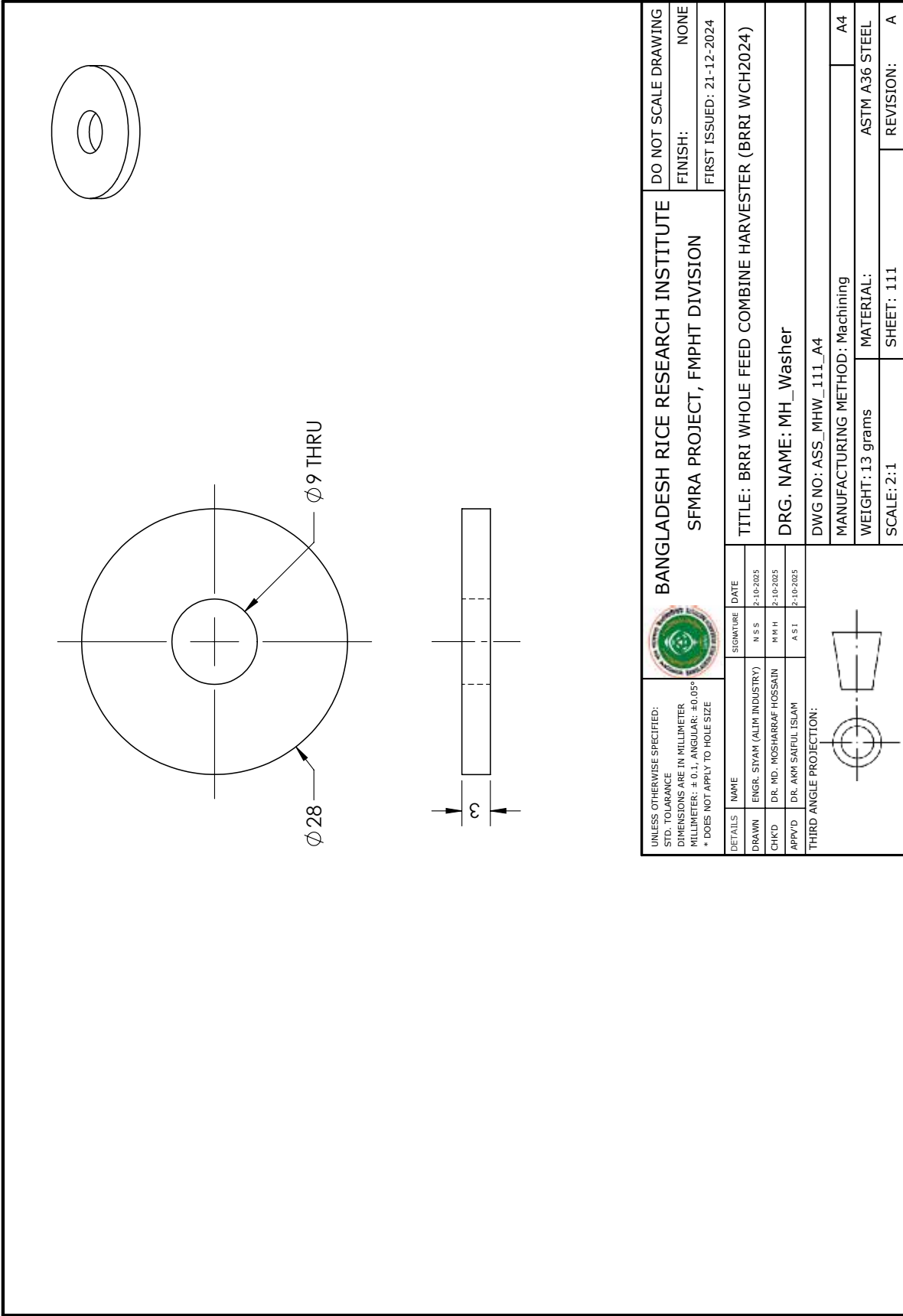


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS		NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)		
DRAWN		ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: Mirror Handle Comb.		
CHK'D		DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_MHC_108_A4		
APP'VD		DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining, Welding		
THIRD ANGLE PROJECTION:				WEIGHT: 786.89 grams			
				SCALE: 1:5			
				SHEET: 108			
				REVISION: A			

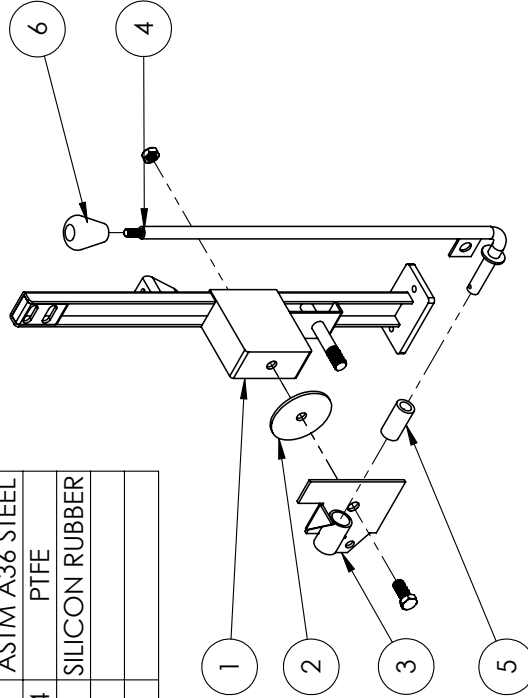
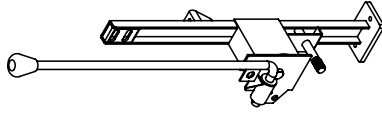



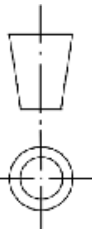


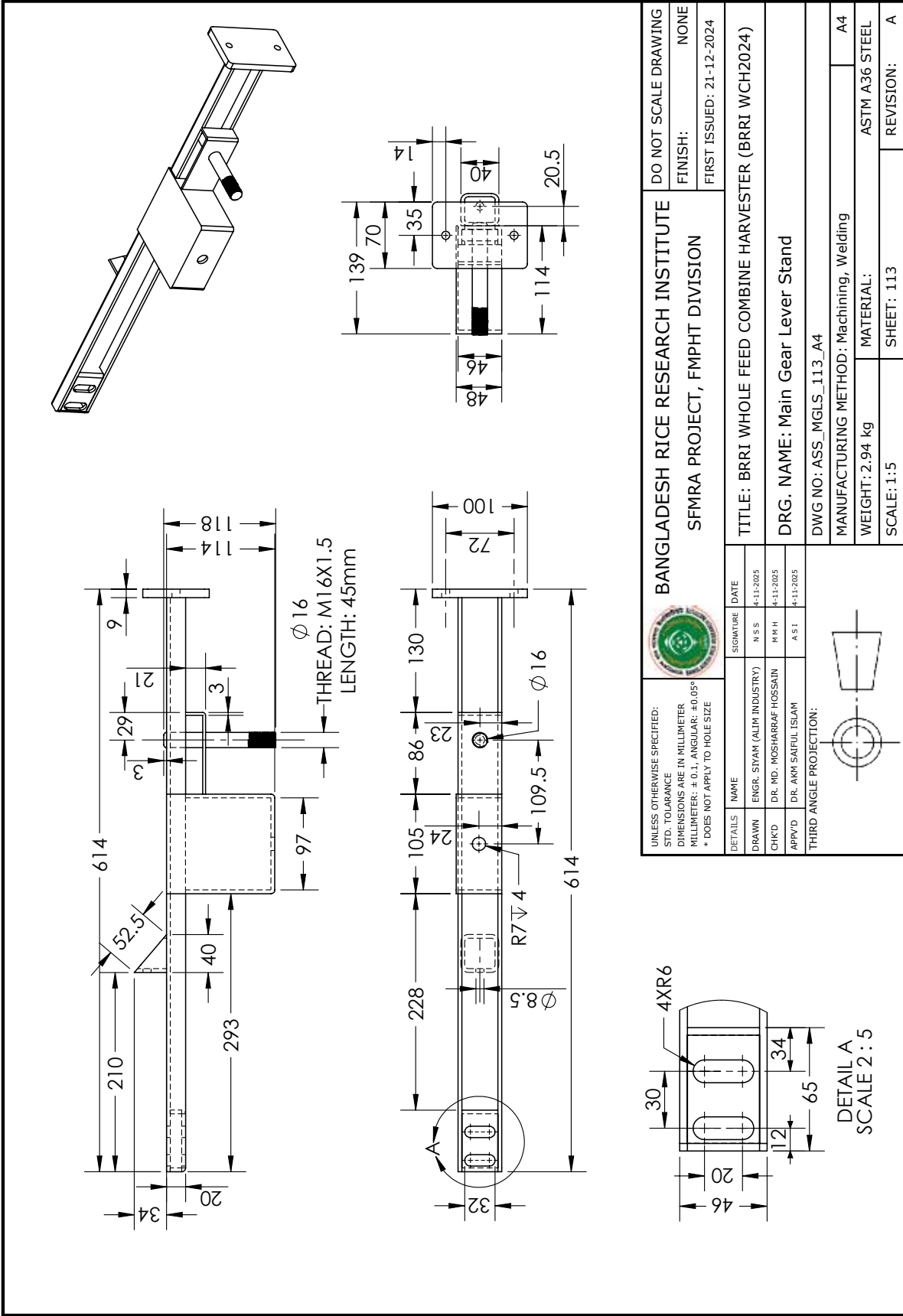
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	28-10-2025	DRG. NAME: MH_Bush			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	28-10-2025	DWG NO: ASS_MHB_110_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	28-10-2025	MANUFACTURING METHOD: Machining, Welding			
THIRD ANGLE PROJECTION:						WEIGHT: 264.21 grams SCALE: 1:1.5	
				MATERIAL: ASTM A36 STEEL		REVISION: A	

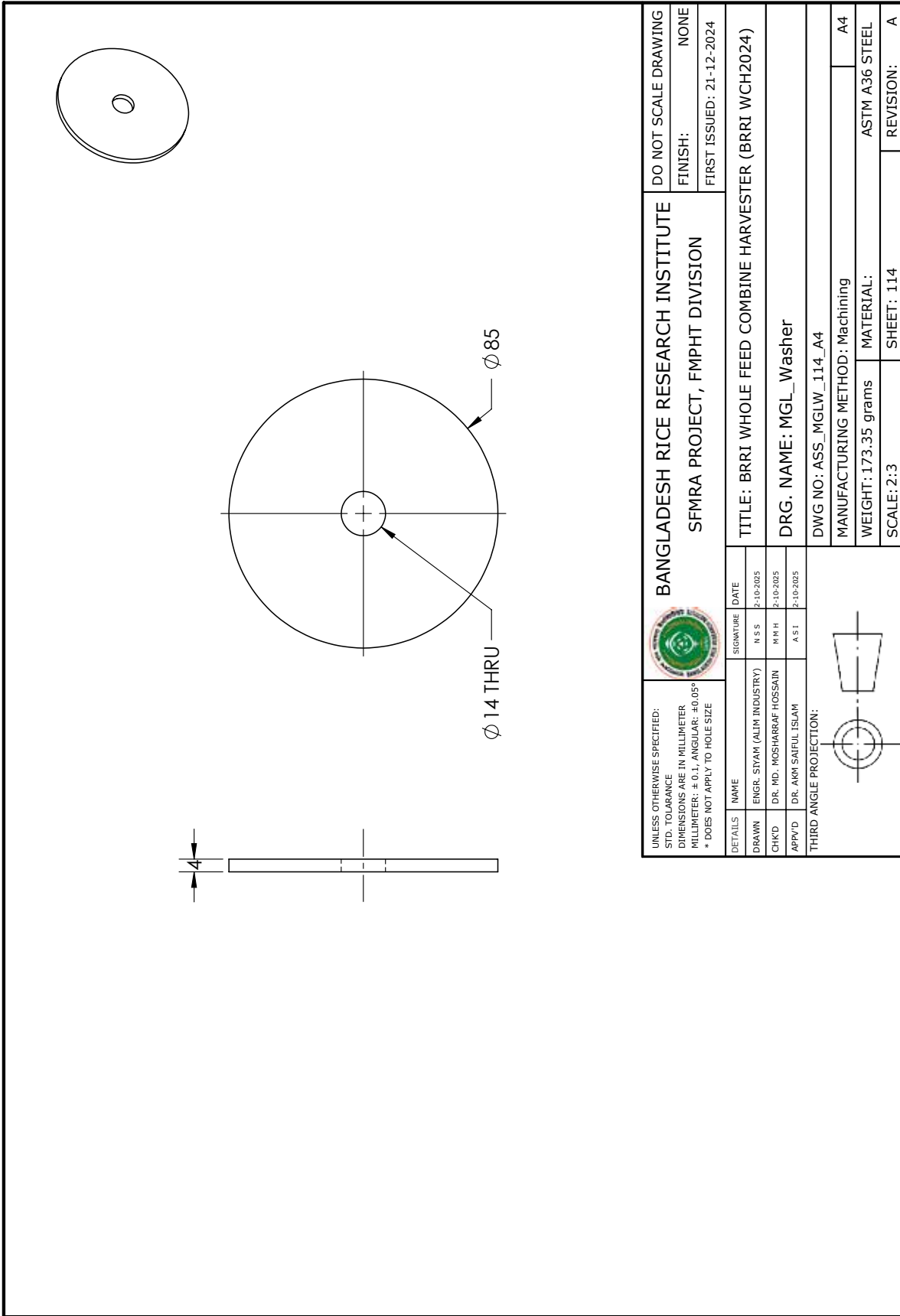


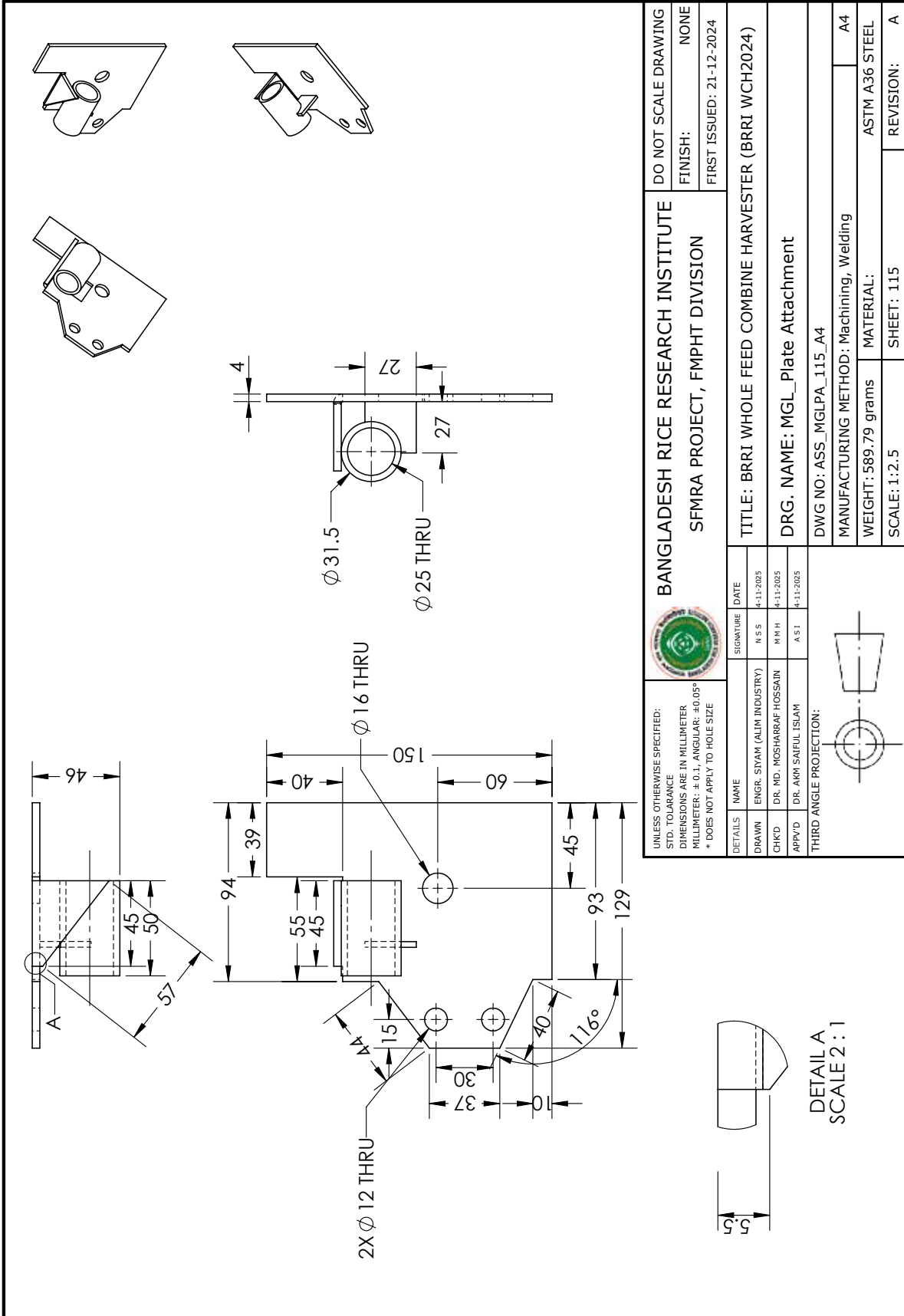
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Main Gear Lever Stand	1	ASS_MGLS_113_A4	ASTM A36 STEEL
2	MGL Washer	1	ASS_MGLW_114_A4	ASTM A36 STEEL
3	MGL Plate Attachment	1	ASS_MGLPA_115_A4	ASTM A36 STEEL
4	Main Gear Lever	1	ASS_MGL_116_A4	ASTM A36 STEEL
5	MGL Fiber Bush	1	ASS_MGLFB_117_A4	PTFE
6	MGL Knob	1	ASS_MGLK_118_A4	SILICON RUBBER
7	14mm Bolt	1		
8	14mm Nut	1		



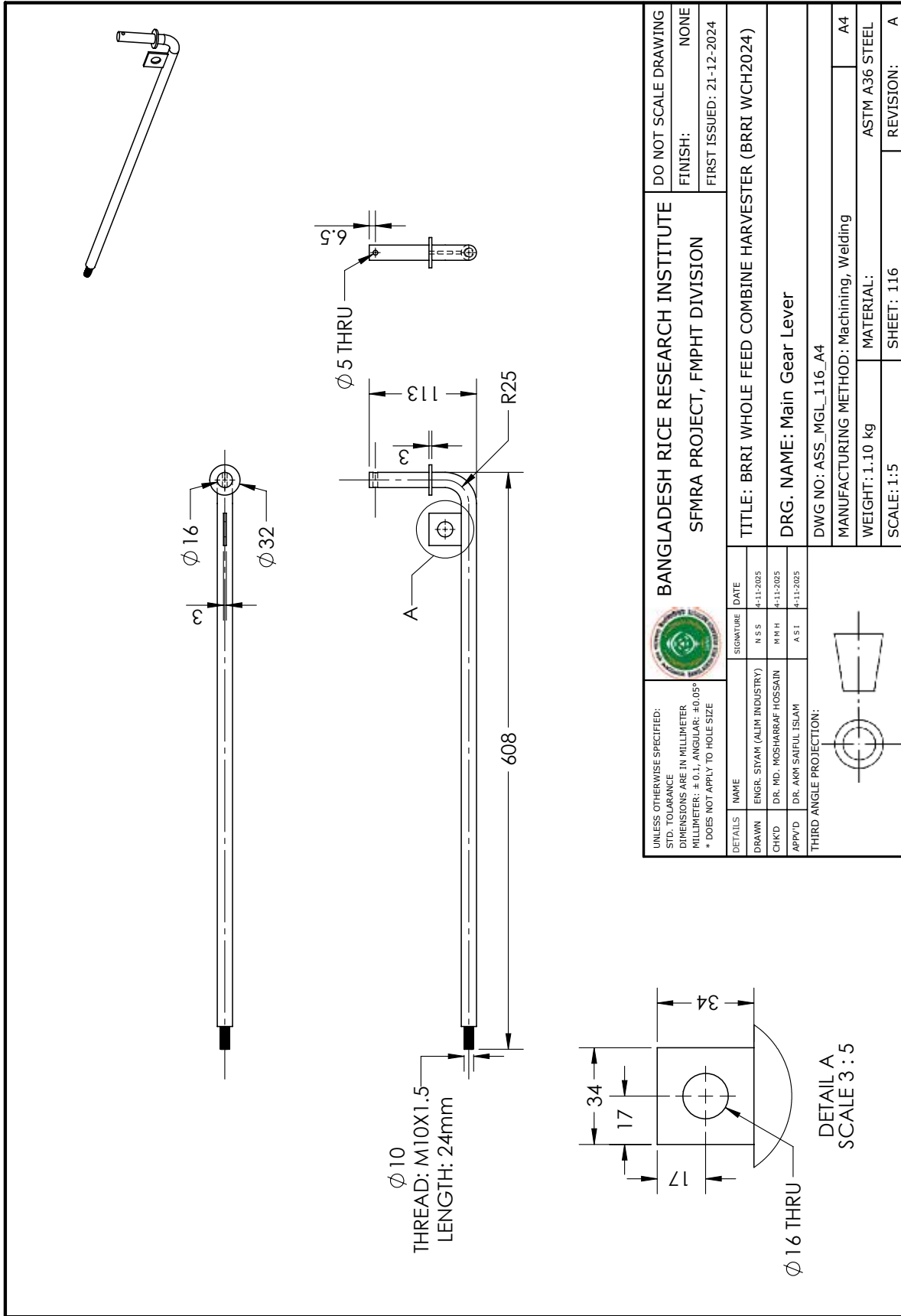
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ±0.1; ANGULAR: ±0.05° * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Main Gear Lever Assembly DWG NO: ASS_MGLA_112_A4 MANUFACTURING METHOD: Machining, Molding, Welding WEIGHT: 4.90 kg MATERIAL:	SCALE: 1:8 SHEET: 112 REVISION: A	
DETAILS DRAWN: ENGR. SIYAM (ALIM INDUSTRY) CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'VD: DR. AKM SAIFUL ISLAM	NAME ENGR. SIYAM DR. MD. MOSHARRAF HOSSAIN DR. AKM SAIFUL ISLAM	SIGNATURE N S S M R H A S I	DATE 4-11-2025 4-11-2025 4-11-2025	THIRD ANGLE PROJECTION: 

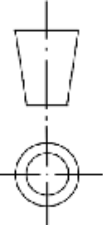
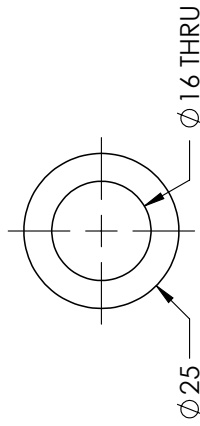
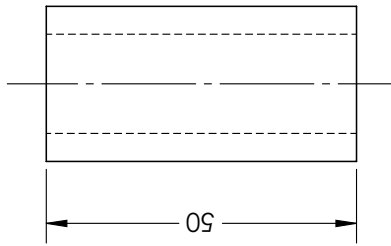
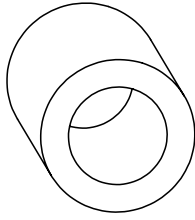





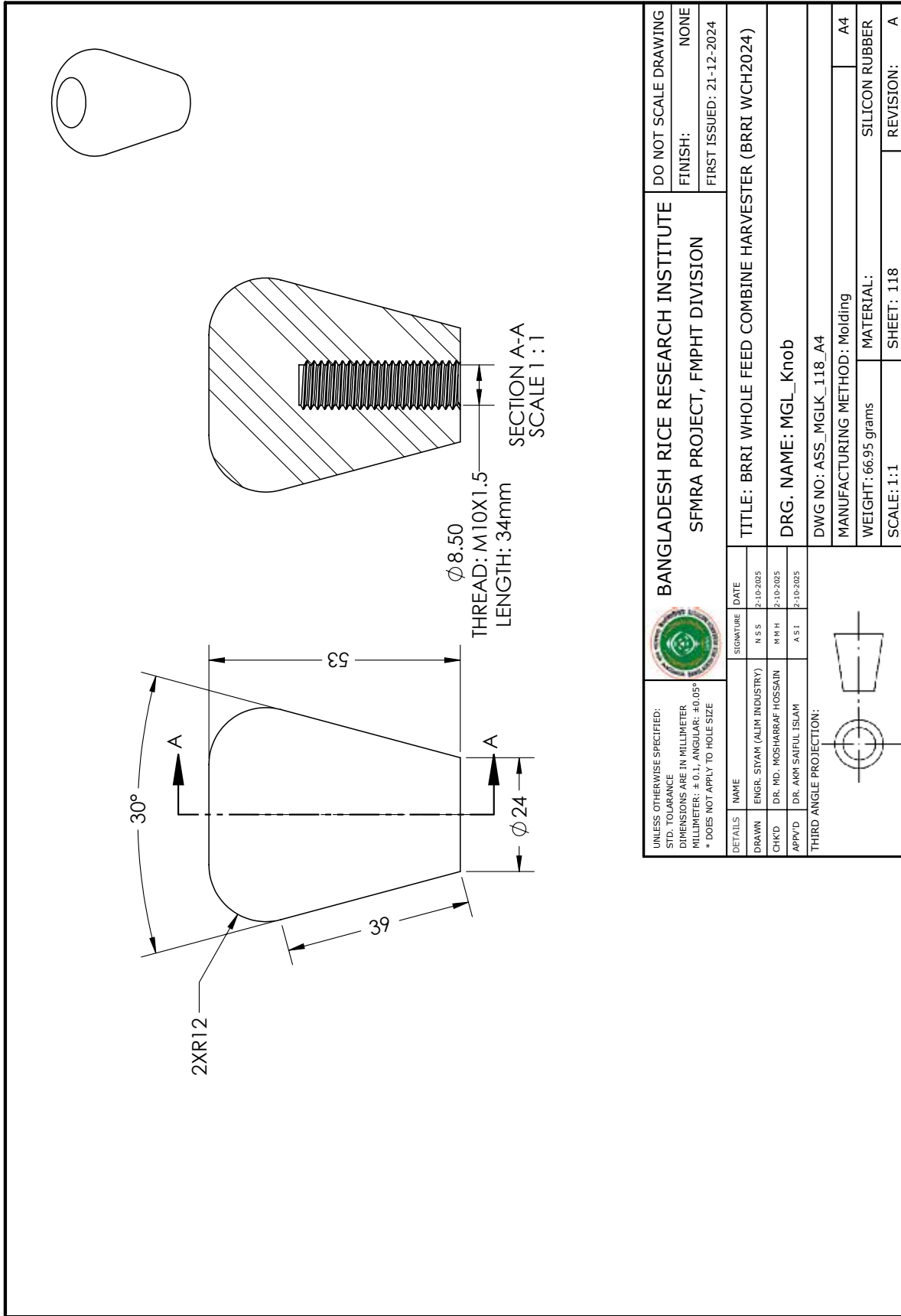


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		SIGNATURE		DATE
DETAILS	NAME	ENGR. SIYAM (ALUM. INDUSTRY)	N S S	4-11-2025
	DRAWN	DR. MD. MOSHARRAF HOSSAIN	M H H	4-11-2025
	CHK'D	DR. AKM SAIFUL ISLAM	A S I	4-11-2025
	APP'VD	THIRD ANGLE PROJECTION:		
BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING		
SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE		
TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		FIRST ISSUED: 21-12-2024		
DRG. NAME: MGL_Plate Attachment				
DWG NO: ASS_MGLPA_115_A4				
MANUFACTURING METHOD: Machining, Welding		A4		
WEIGHT: 589.79 grams		MATERIAL: ASTM A36 STEEL		
SCALE: 1:2.5		SHEET: 115		
		REVISION: A		

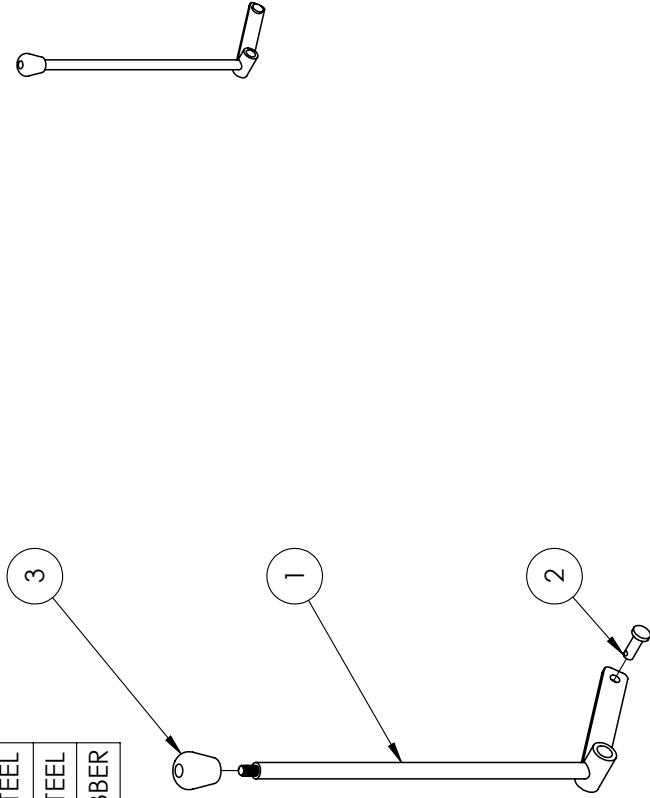



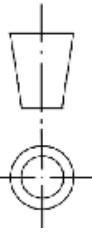


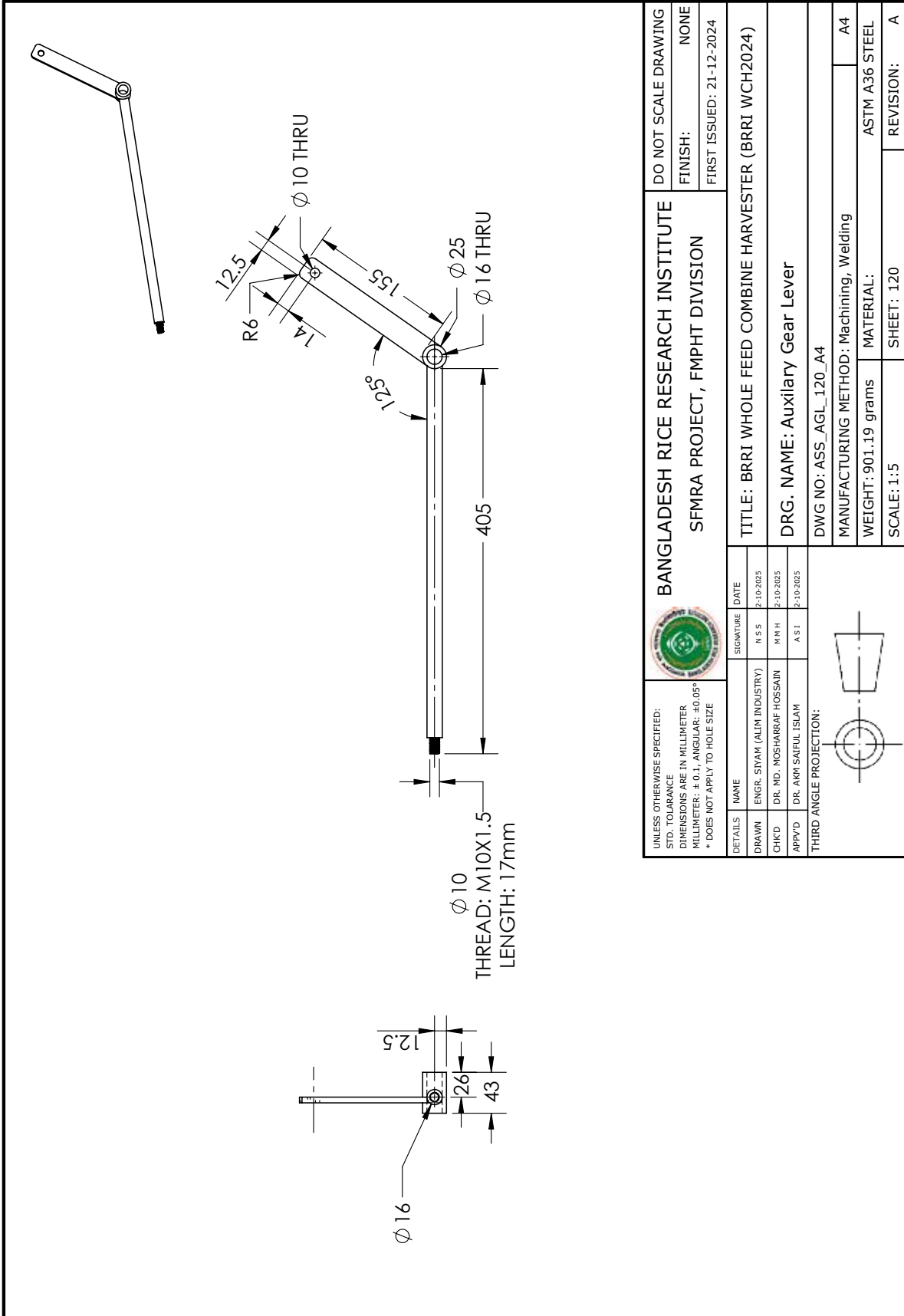
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: MGL_Fiber Bush			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO: ASS_MGLFB_117_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:				WEIGHT: 33.62 grams		MATERIAL: PTFE	
				SCALE: 1:1		SHEET: 117	
						REVISION: A	


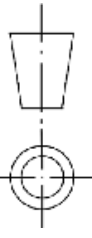
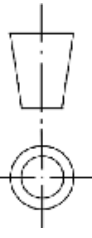


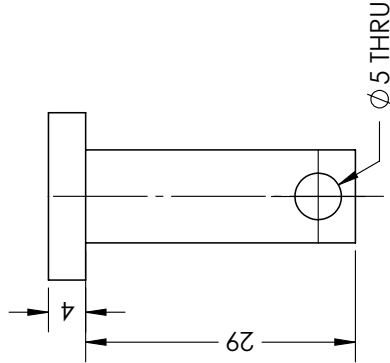
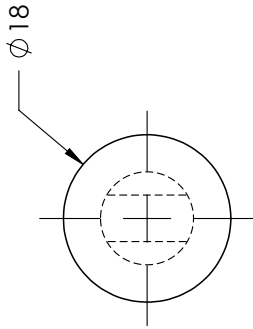
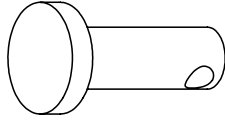
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Auxiliary Gear Lever	1	ASS_AGL_120_A4	ASTM A36 STEEL
2	AGL_Pin	1	ASS_AGLP_121_A4	ASTM A36 STEEL
3	AGL_Knob	1	ASS_AGLK_122_A4	SILICON RUBBER


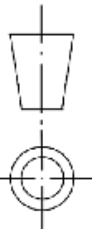


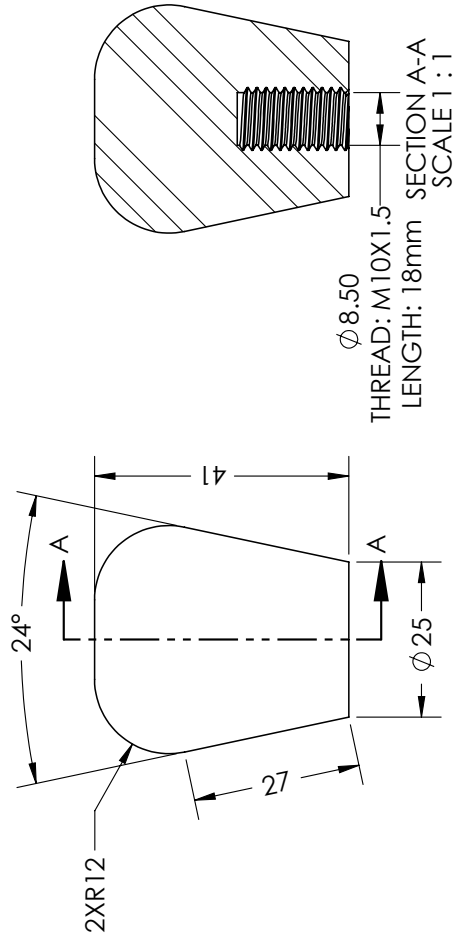
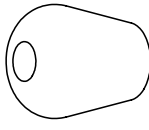
 UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE	BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Auxiliary Gear Lever Assembly DWG NO: ASS_AGLA_119_A4		FINISH: NONE FIRST ISSUED: 21-12-2024
DETAILS NAME DATE DRAWN ENGR. SIYAM (ALIM INDUSTRY) N S S 2-10-2025 CHK'D DR. MD. MOSHARRAF HOSSAIN M R H 2-10-2025 APP'VD DR. AKM SAIFUL ISLAM A S I 2-10-2025	THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: Machining, Molding, Welding WEIGHT: 964.07 grams MATERIAL: A4 SCALE: 1:6 SHEET: 119 REVISION: A


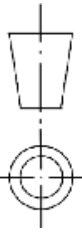


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME DRAWN ENGR. SIYAM (ALIM INDUSTRY) CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM		SIGNATURE N S S M R H A S I		DATE 2-10-2025 2-10-2025 2-10-2025		TITLE: BRI WHOLE FEED COMBINE HARVESTER (BRI WCH2024) DRG. NAME: Auxiliary Gear Lever DWG NO: ASS_AGL_120_A4	
THIRD ANGLE PROJECTION: 				MANUFACTURING METHOD: Machining, Welding WEIGHT: 901.19 grams SCALE: 1:5		MATERIAL: ASTM A36 STEEL SHEET: 120 REVISION: A	

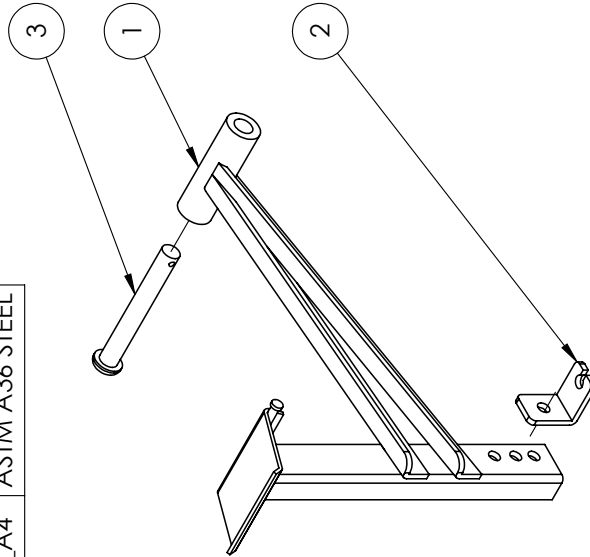
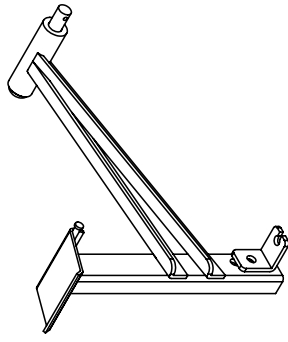



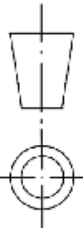
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: AGL_Pin			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO.: ASS_AGLP_121_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:							
				WEIGHT: 27.38 grams		MATERIAL: ASTM A36 STEEL	
				SCALE: 1.5:1		SHEET: 121	
						REVISION: A	

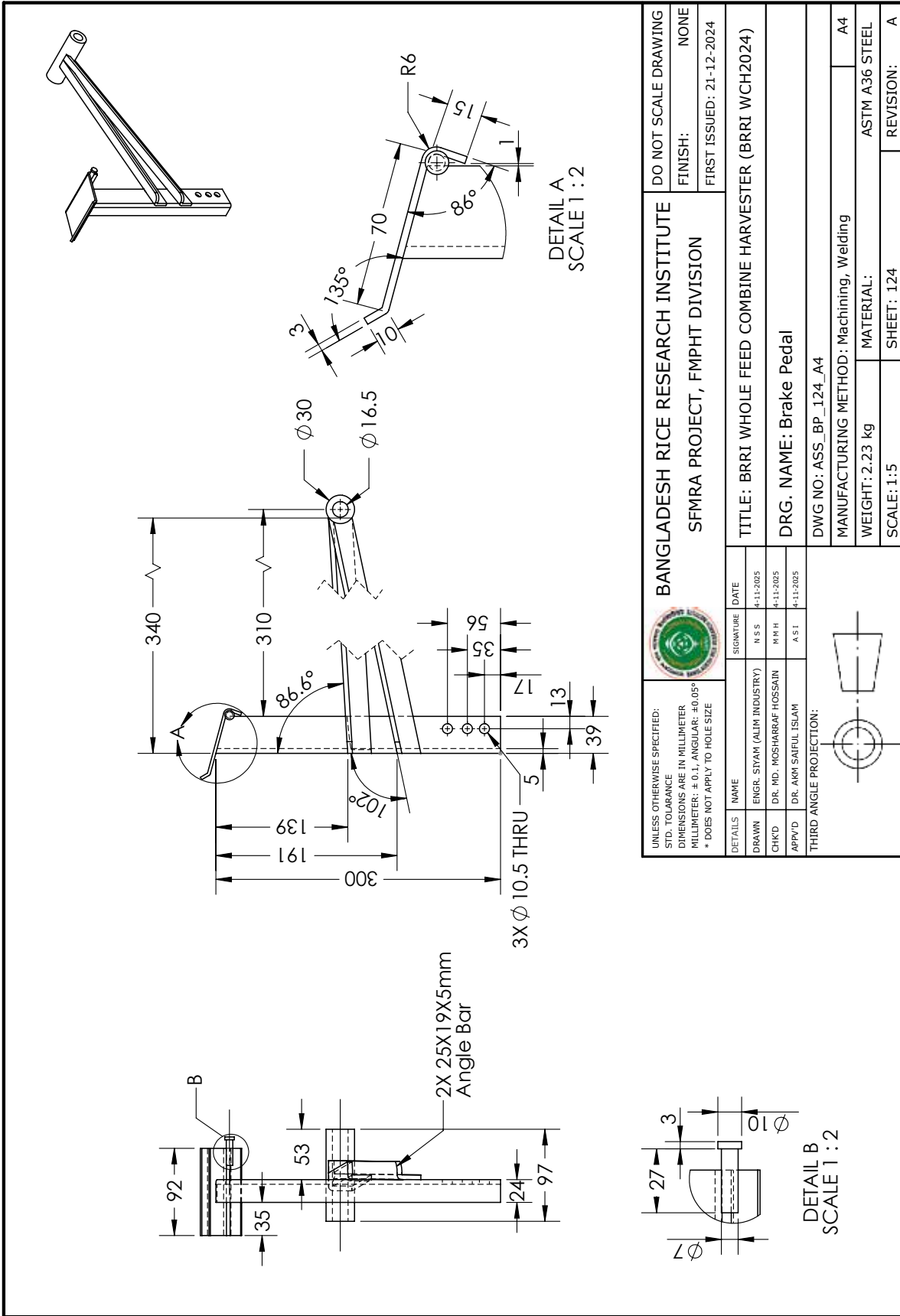


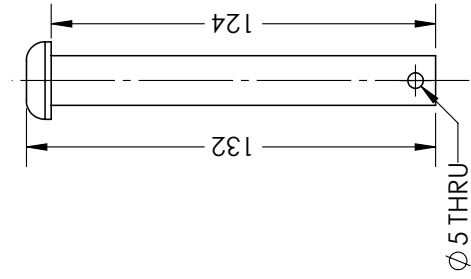
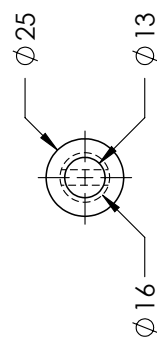
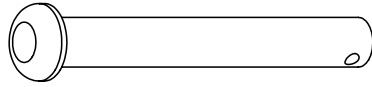
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: AGL_Knob			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO.: ASS_AGLK_122_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Molding			
THIRD ANGLE PROJECTION:				WEIGHT: 38.50 grams			
				MATERIAL: SILICON RUBBER			
				SCALE: 1:1			
				SHEET: 122			
				REVISION: A			


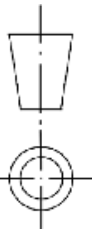
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Brake Pedal	1	ASS_BP_124_A4	ASTM A36 STEEL
2	BP_Adjust Plate	1	ASS_BCAP_125_A4	ASTM A36 STEEL
3	BP_Pin	1	ASS_BPP_126_A4	ASTM A36 STEEL

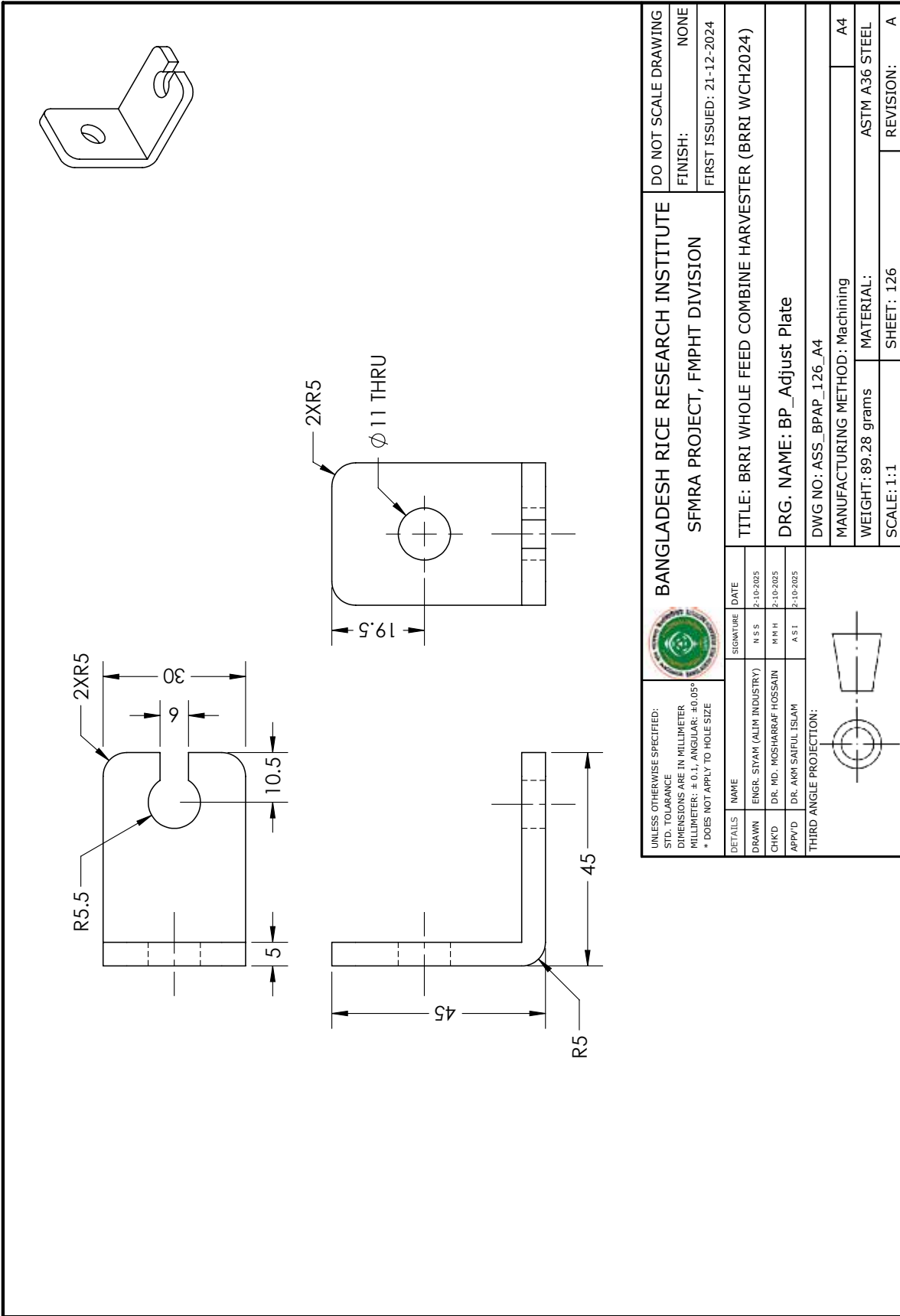


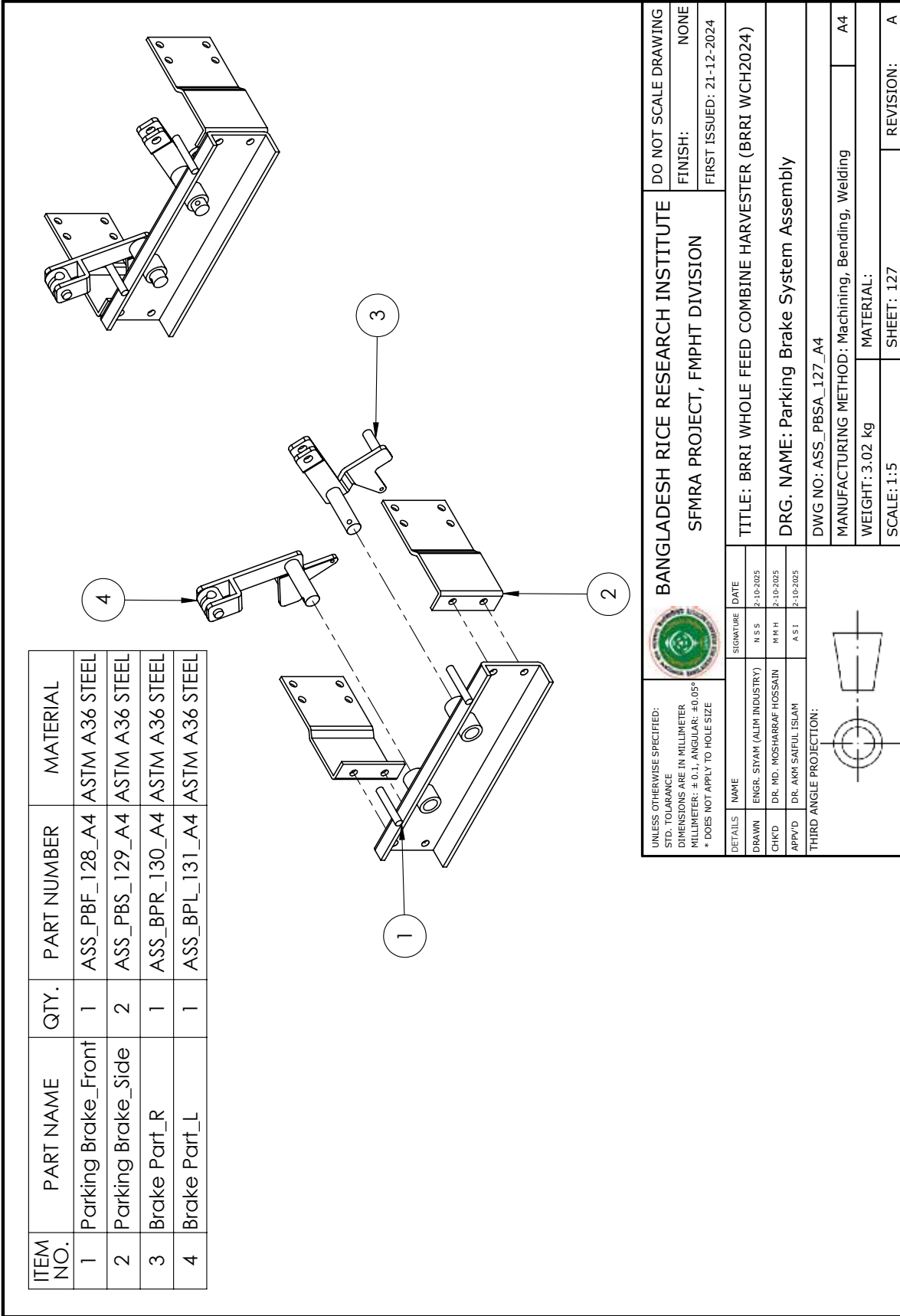
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		SIGNATURE N S S	DATE 2-10-2025	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)	
DRAWN ENGR. SIYAM (ALIM INDUSTRY)	CHK'D DR. MD. MOSHARRAF HOSSAIN M N H	APP'VD DR. AKM SAIFUL ISLAM A S I	2-10-2025 2-10-2025 2-10-2025	DRG. NAME: Brake Pedal Assembly DWG NO: ASS_BPA_123_A4	
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Machining, Welding WEIGHT: 2.54 kg SCALE: 1:1.5	
				MATERIAL:	REVISION: A

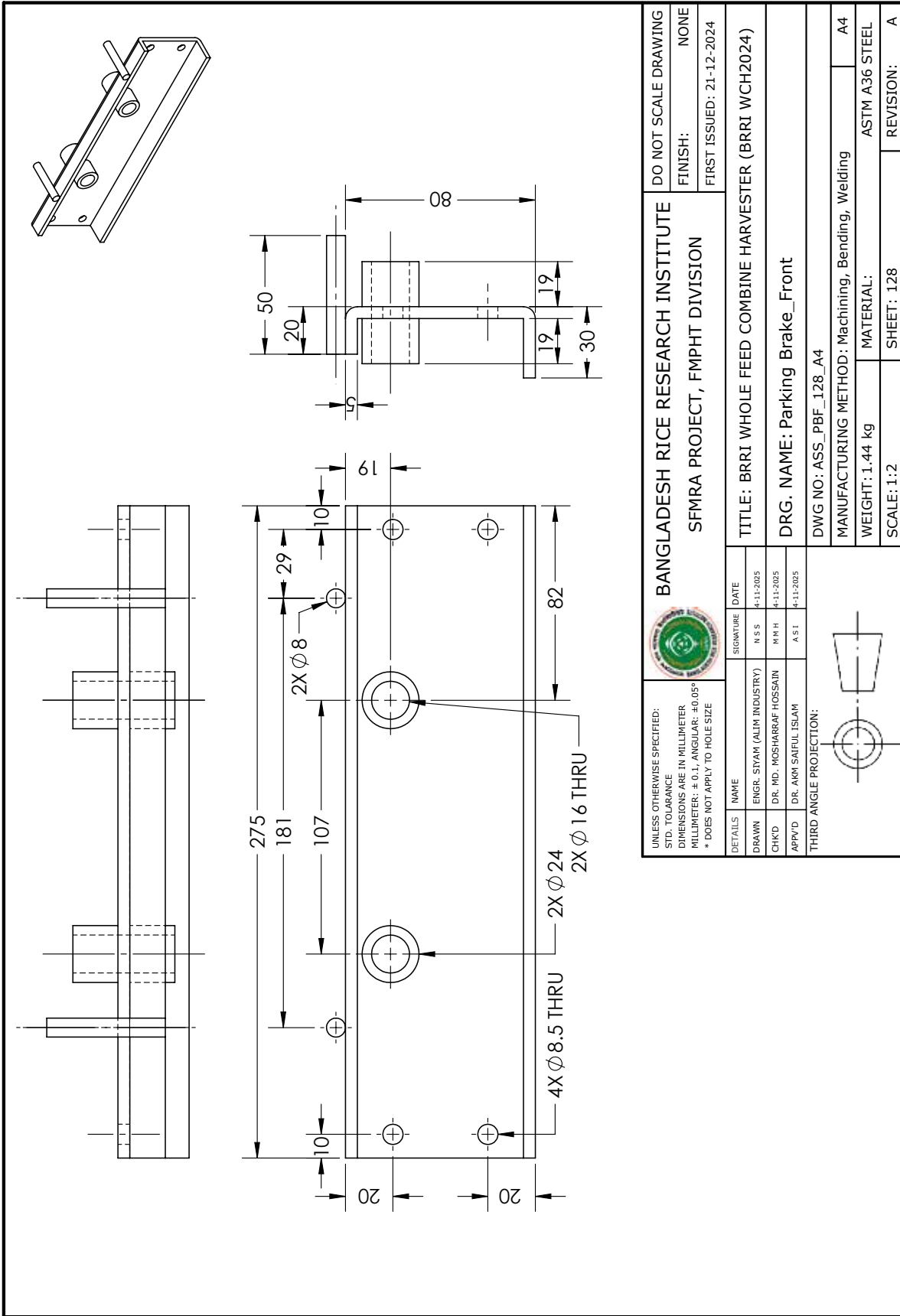


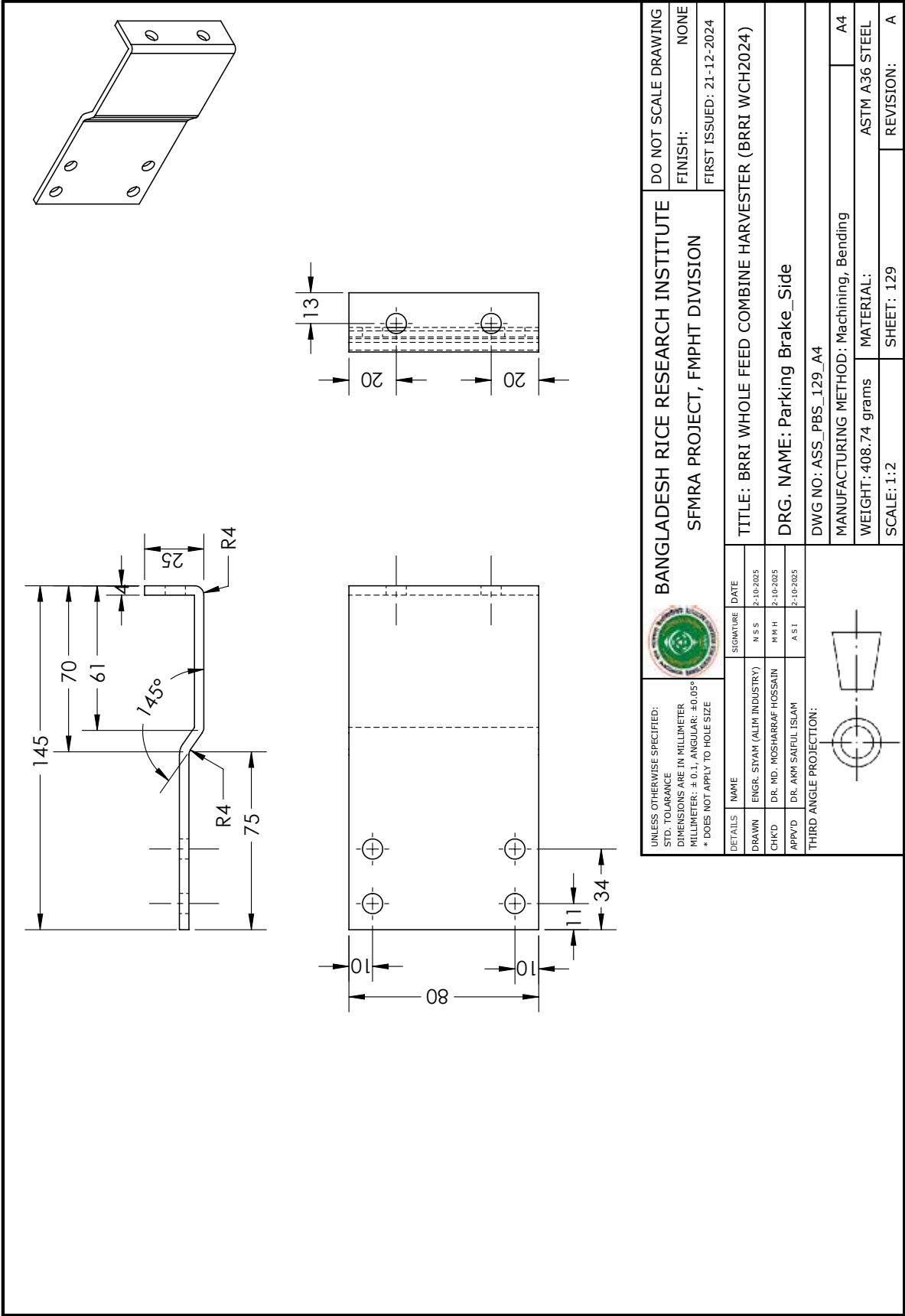


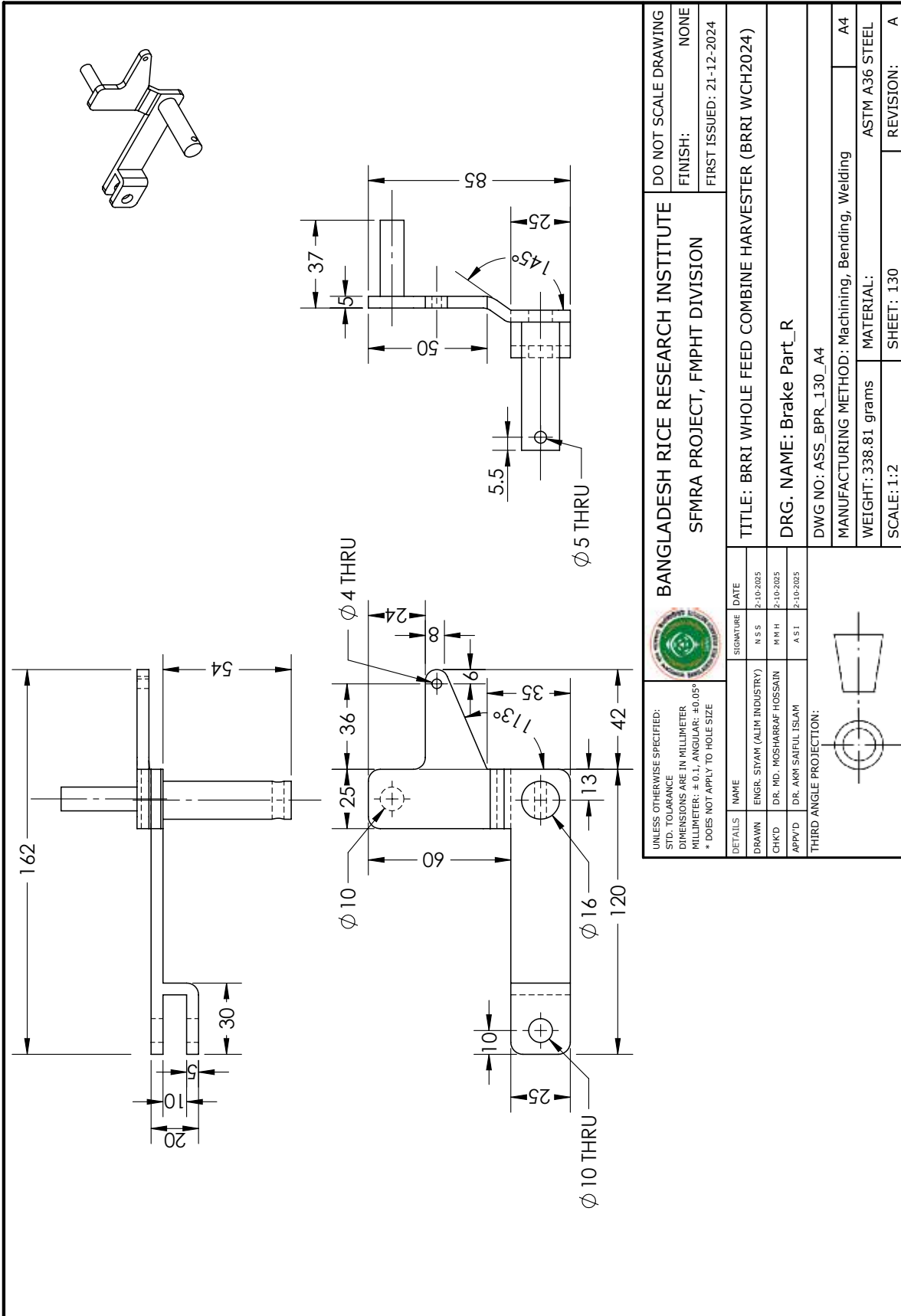
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: BP_Pin			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	2-10-2025	DWG NO.: ASS_BPP_125_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:							
				WEIGHT: 219.85 grams		MATERIAL: ASTM A36 STEEL	
				SCALE: 1:2		SHEET: 125	
						REVISION: A	




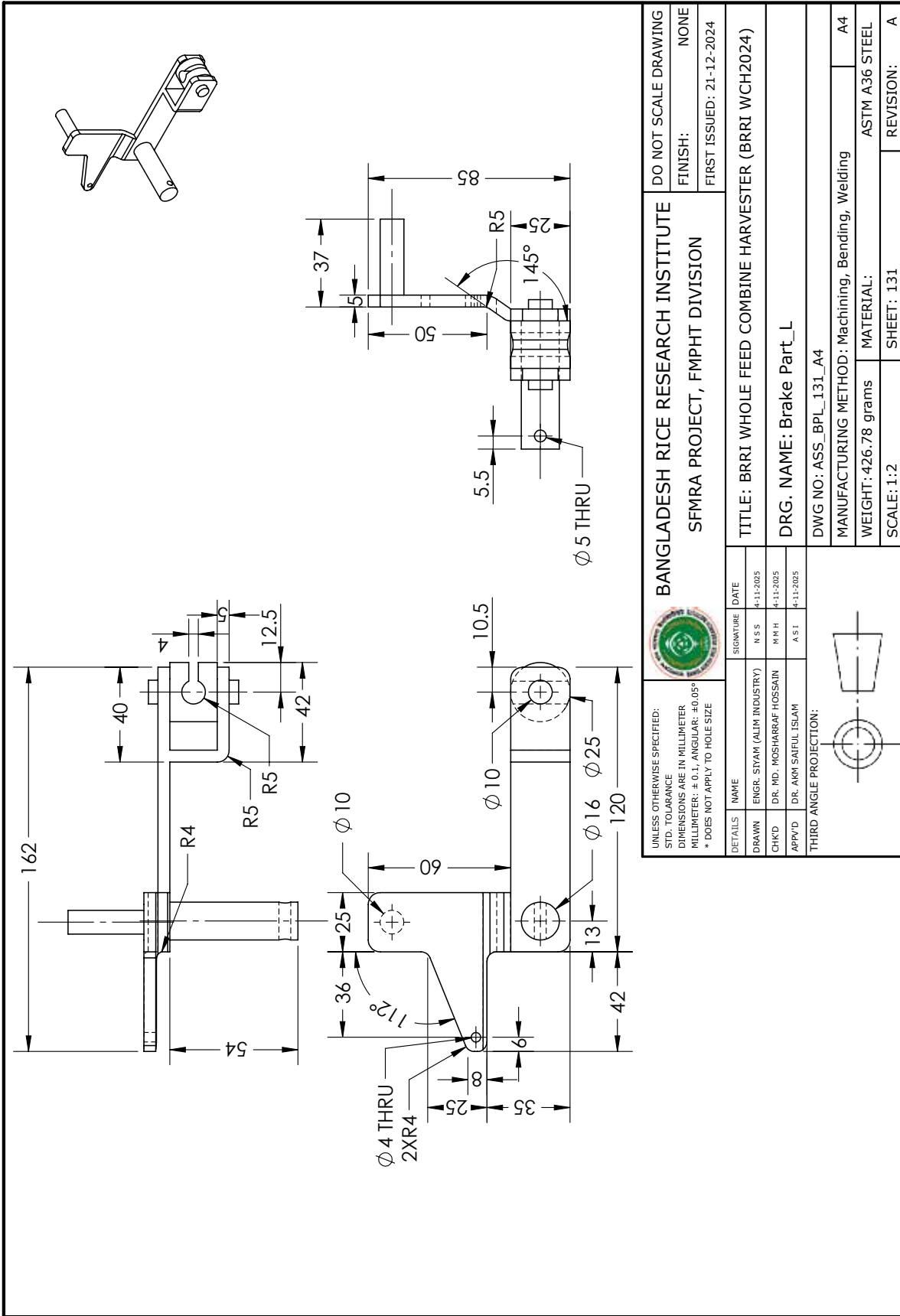



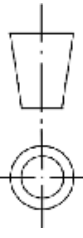




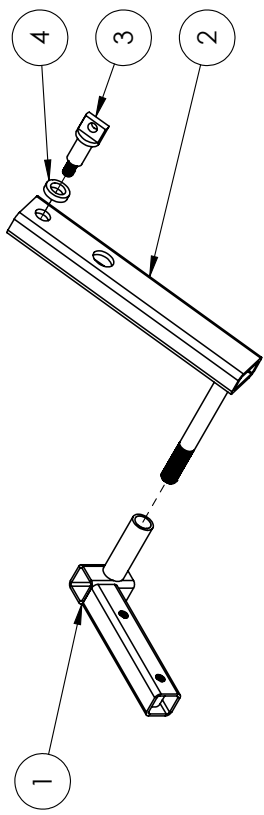
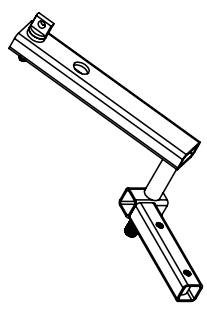



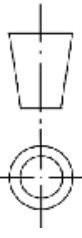
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		SIGNATURE N S S M N H A S I	DATE 2-10-2025 2-10-2025 2-10-2025	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024) DRG. NAME: Brake Part_R DWG NO: ASS_BPR_130_A4	
DRAWN ENGR. SIYAM (ALIM INDUSTRY)	CHKD DR. MD. MOSHARRAF HOSSAIN	APPVD DR. AKM SAIFUL ISLAM	MANUFACTURING METHOD: Machining, Bending, Welding WEIGHT: 338.81 grams MATERIAL: ASTM A36 STEEL SCALE: 1:2 SHEET: 130 REVISION: A		

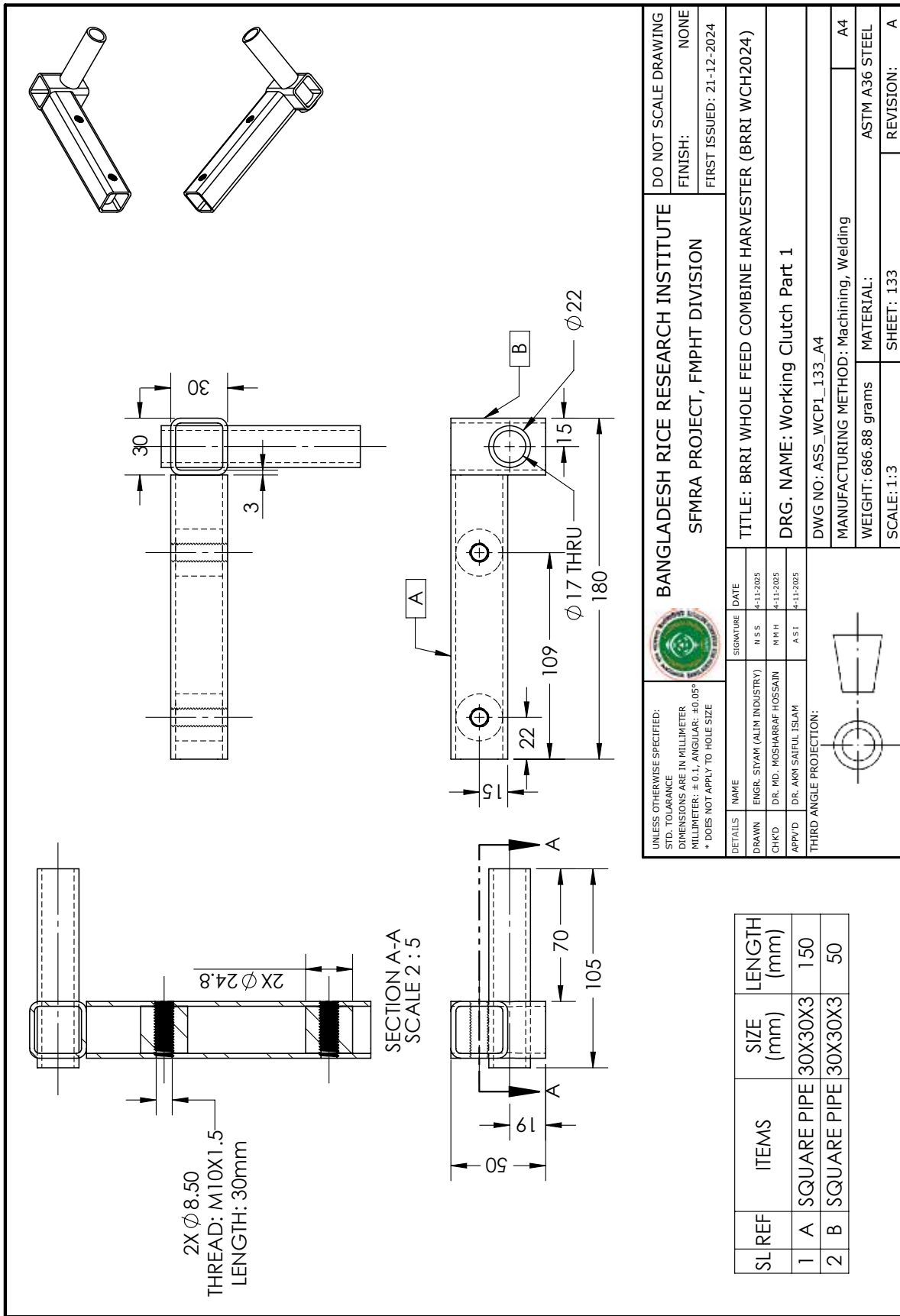


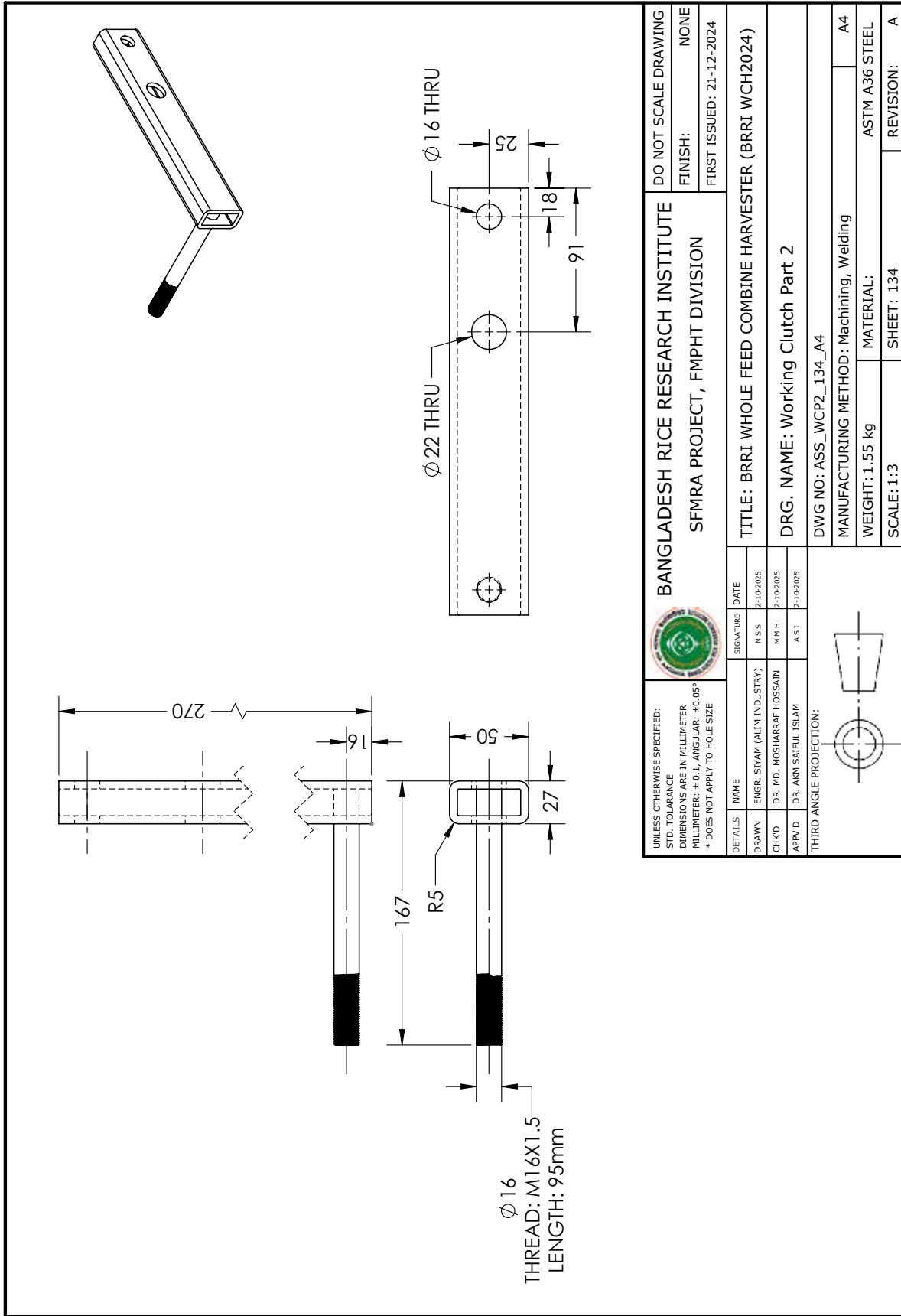
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ±0.1; ANGULAR: ±0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	4-11-2025	DRG. NAME: Brake Part_L			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	4-11-2025	DWG NO: ASS_BPL_131_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	4-11-2025	MANUFACTURING METHOD: Machining, Bending, Welding			
THIRD ANGLE PROJECTION:						MATERIAL: ASTM A36 STEEL WEIGHT: 426.78 grams SCALE: 1:2	
				SHEET: 131		REVISION: A	

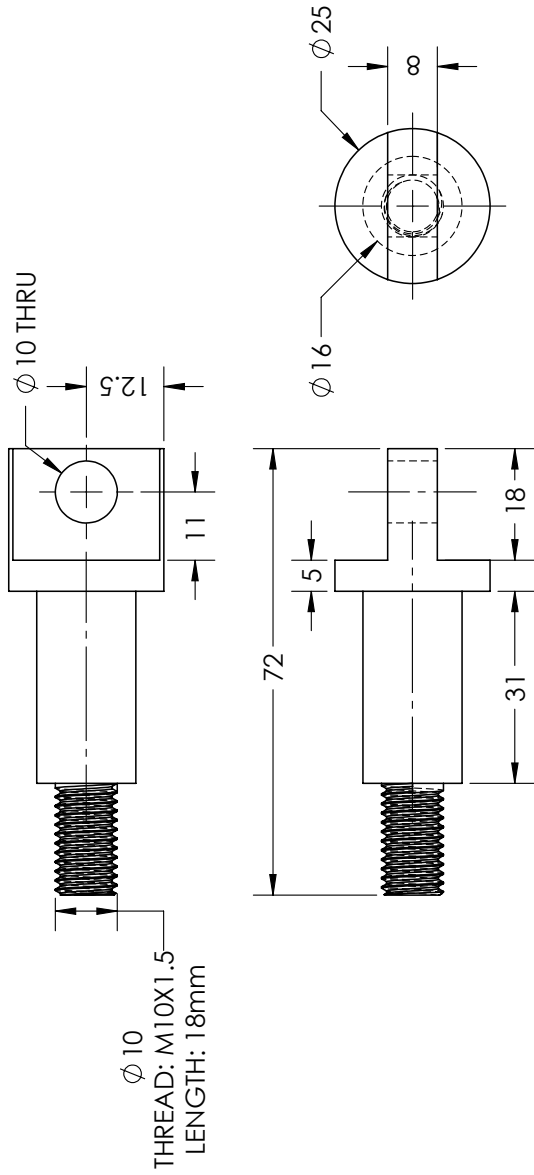
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Working Clutch Part 1	1	ASS_WCP1_133_A4	ASTM A36 STEEL
2	Working Clutch Part 2	1	ASS_WCP2_134_A4	ASTM A36 STEEL
3	WC_Pin	1	ASS_WCP_135_A4	ASTM A36 STEEL
4	WC_Washer	1	ASS_WCW_136_A4	ASTM A36 STEEL


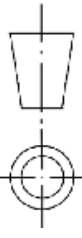


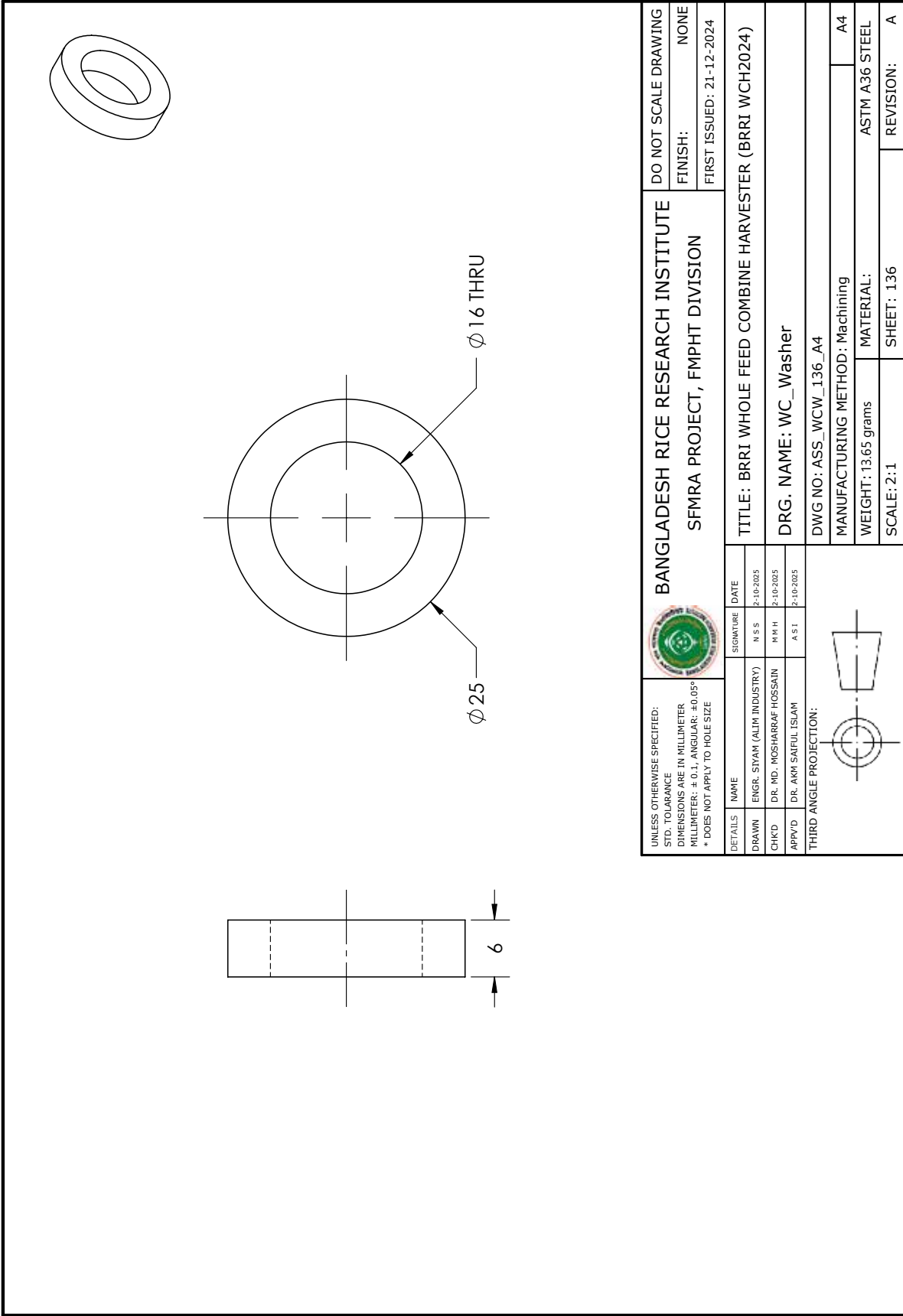
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024) DRG. NAME: Working Clutch and Tension Pulley Assembly DWG NO: ASS_WCTPA_132_A4		FINISH: NONE FIRST ISSUED: 21-12-2024
DETAILS NAME: ENGR. SIYAM (ALIM INDUSTRY) CHKD: DR. MD. MOSHARRAF HOSSAIN APPVD: DR. AKM SAIFUL ISLAM		SIGNATURE: N S S M R H A S I		DATE: 2-10-2025 2-10-2025 2-10-2025
THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: Machining, Welding WEIGHT: 2.35 kg SCALE: 1:6		SHEET: 132 REVISION: A



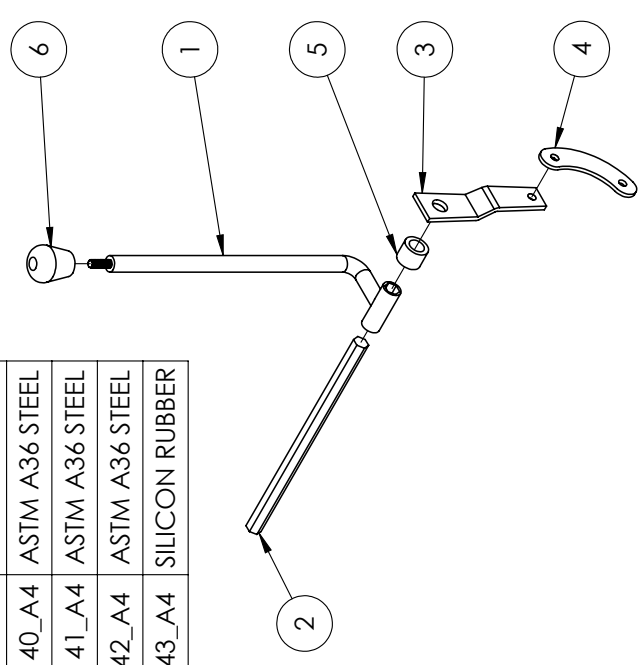


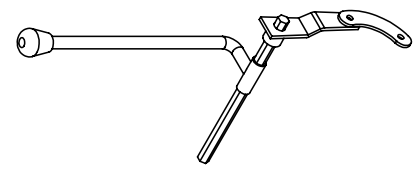



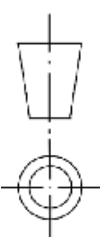
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		FINISH:	NONE
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	2-10-2025	DRG. NAME: WC_Pin		FIRST ISSUED:	21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	DWG NO.: ASS_WCP_135_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining		MATERIAL: ASTM A36 STEEL	
THIRD ANGLE PROJECTION:						SCALE: 1:1	
				WEIGHT: 100.3 grams		REVISION: A	
				SHEET: 1:1			

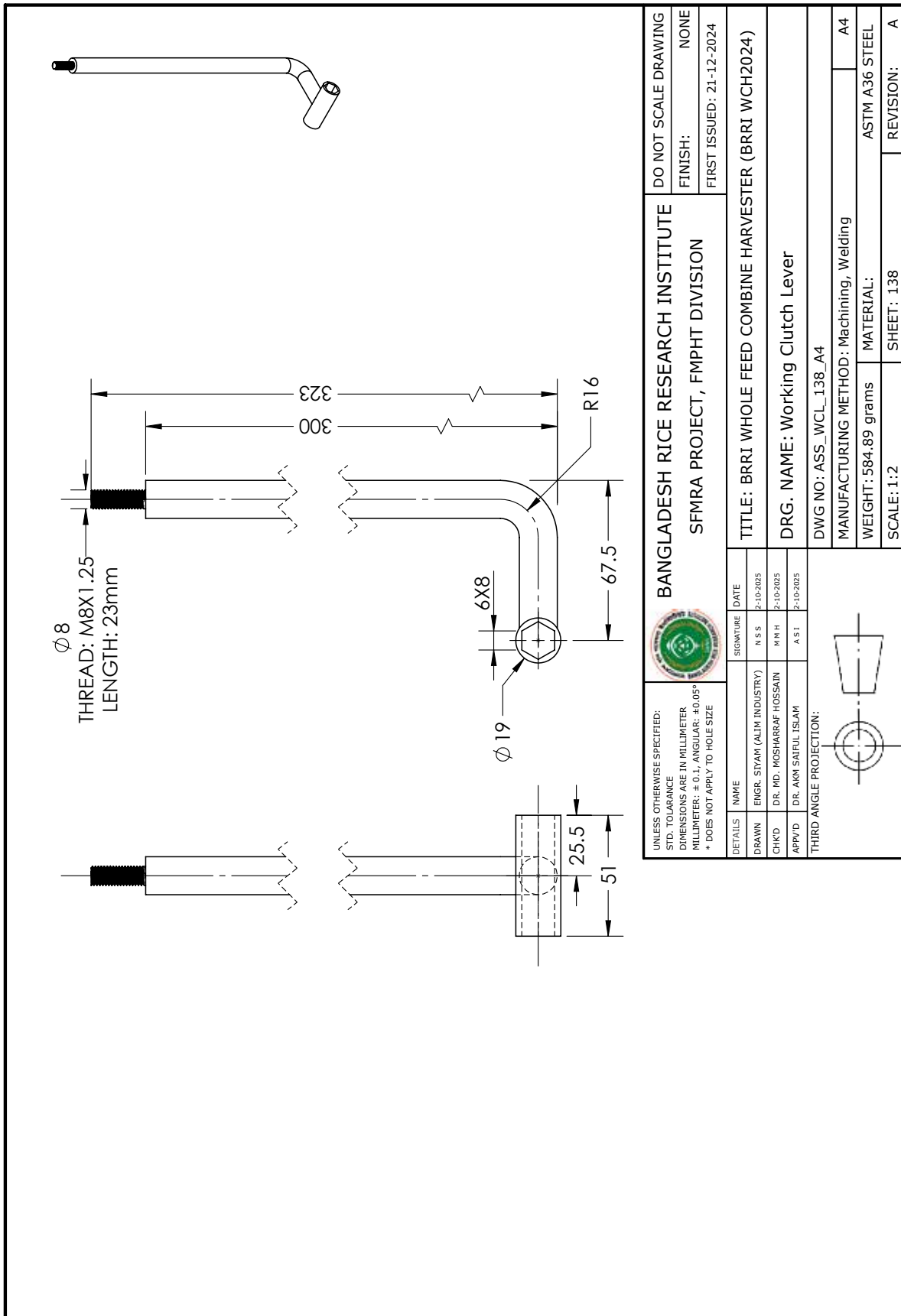


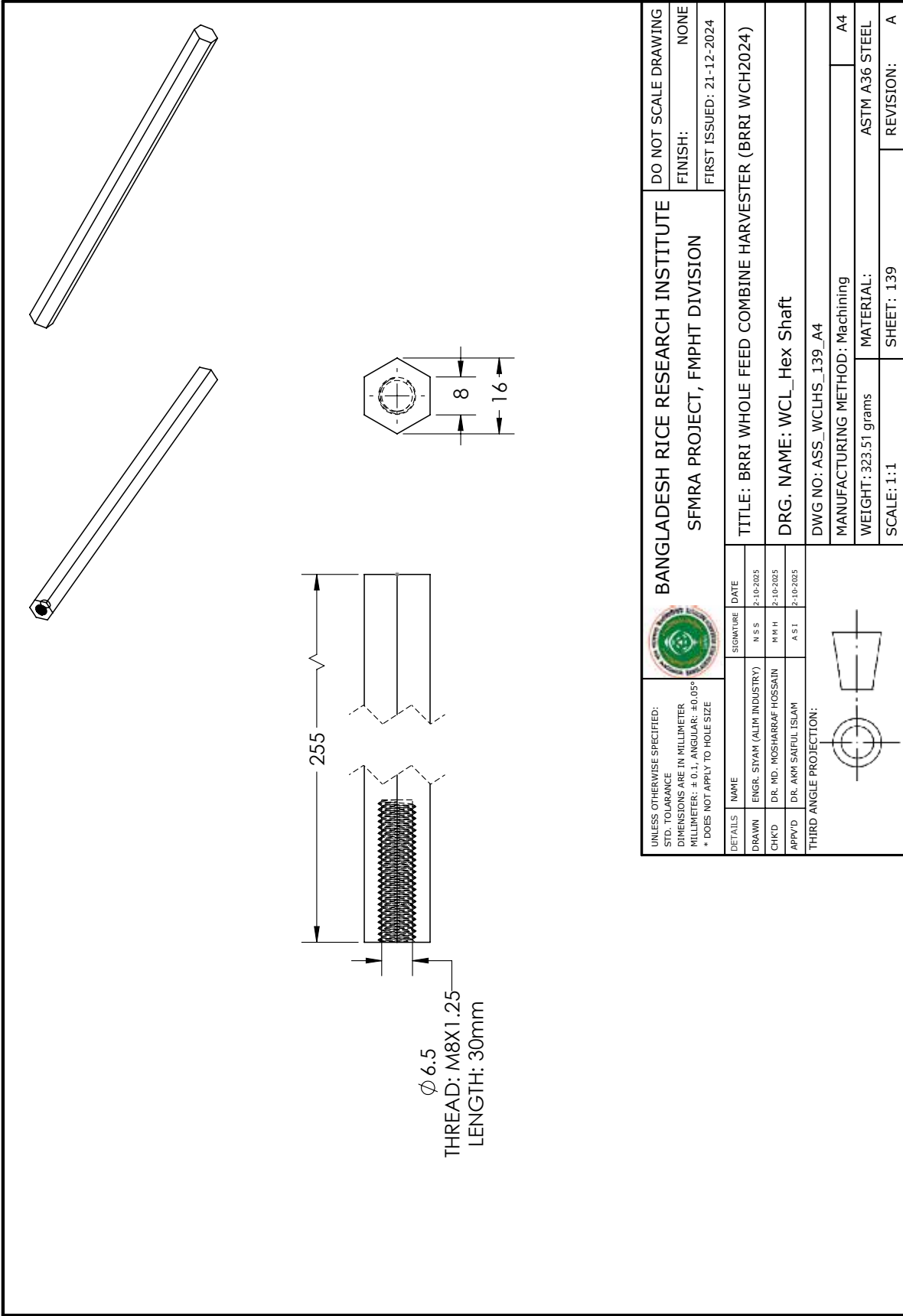
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Working Clutch Lever	1	ASS_WCL_138_A4	ASTM A36 STEEL
2	WCL_Hex Shaft	1	ASS_WCLHS_139_A4	ASTM A36 STEEL
3	WCL_Bended Plate	1	ASS_WCLBP_140_A4	ASTM A36 STEEL
4	WCL_Arc Slot	1	ASS_WCLAS_141_A4	ASTM A36 STEEL
5	WCL_Bush	1	ASS_WCLB_142_A4	ASTM A36 STEEL
6	WCL_Knob	1	ASS_WCLK_143_A4	SILICON RUBBER

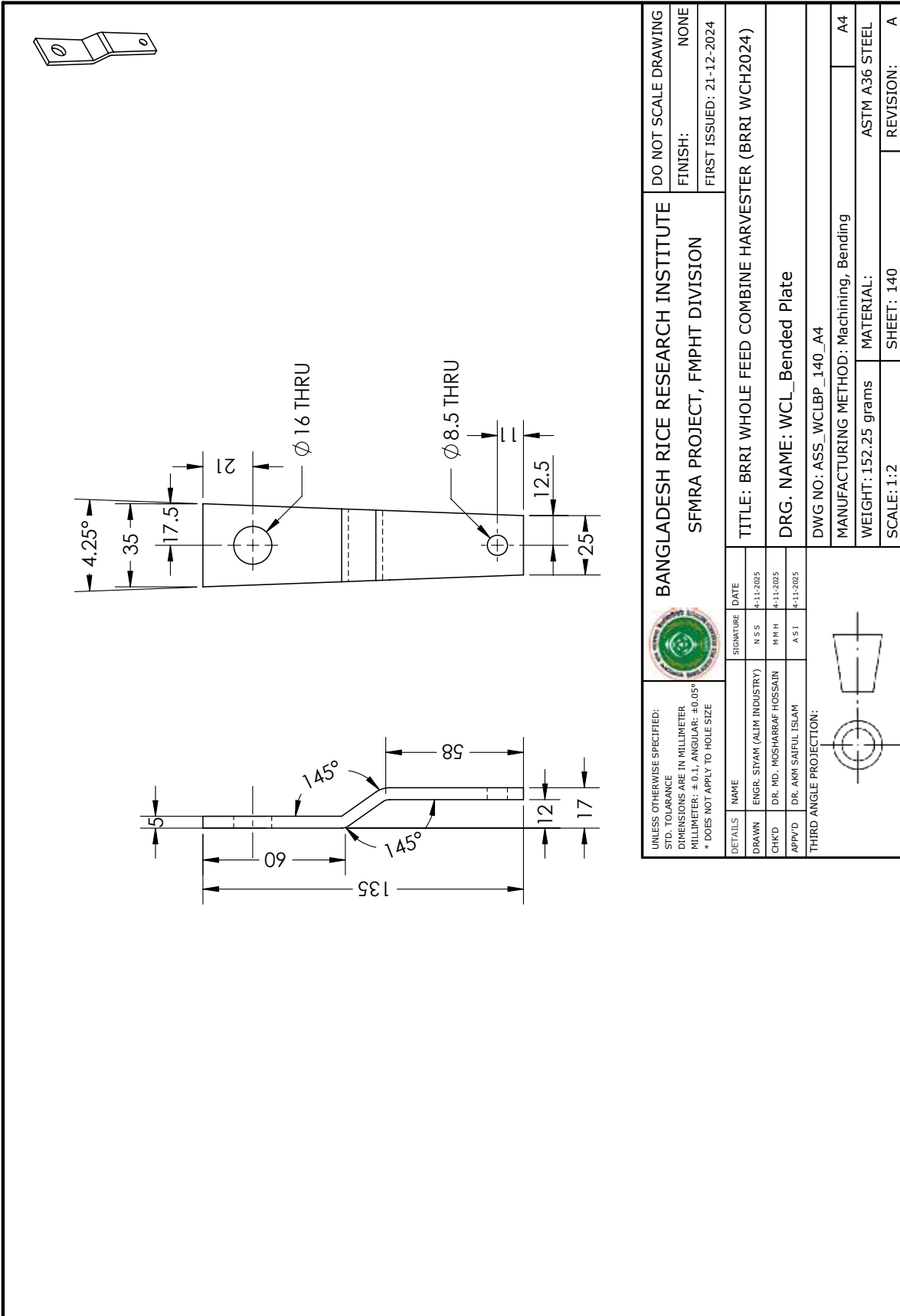


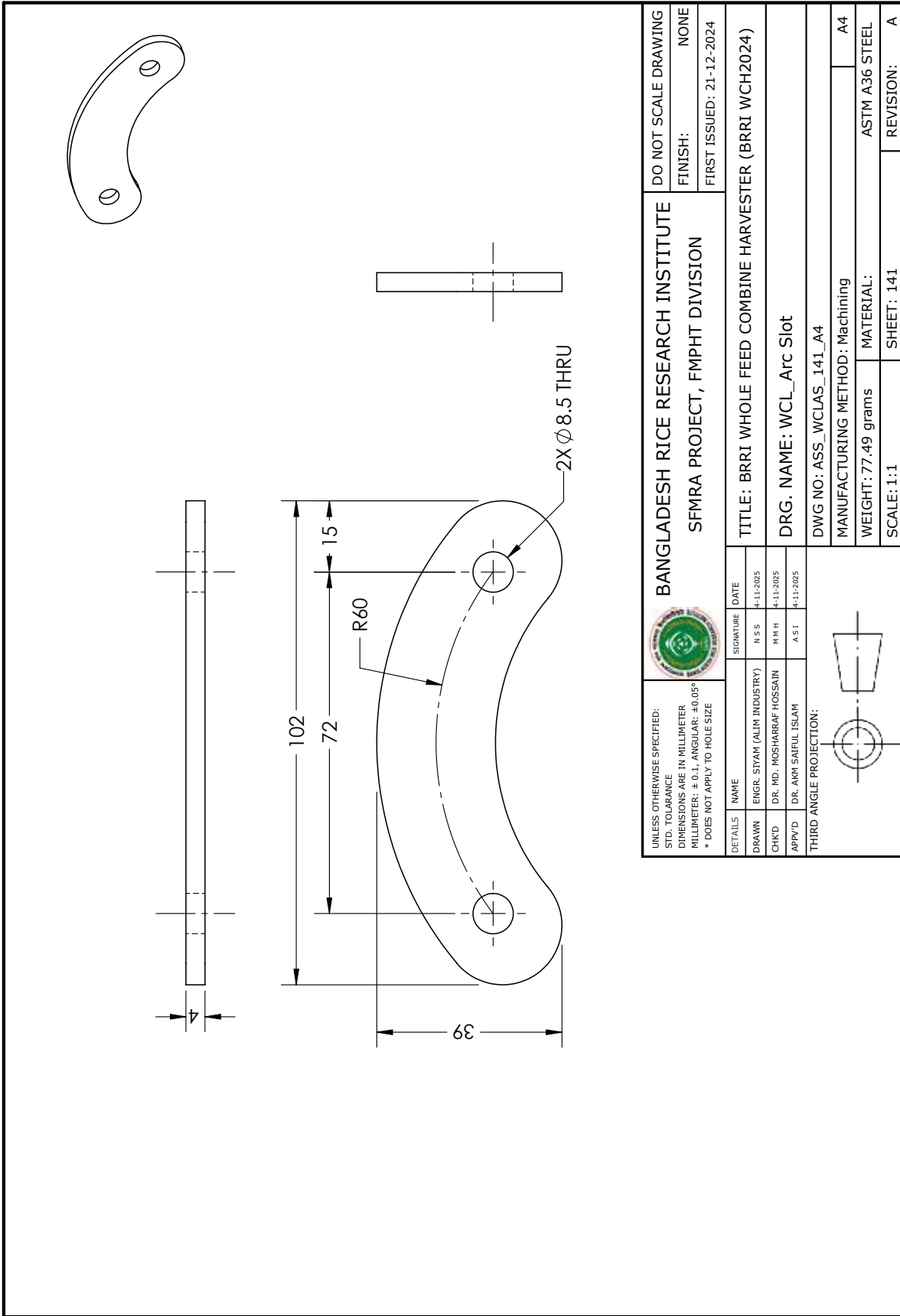


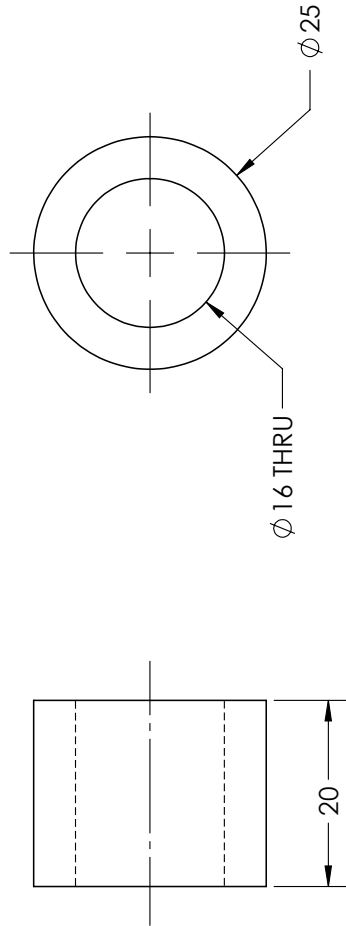
		BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
		SF MRA PROJECT, FMPHT DIVISION		FINISH: NONE FIRST ISSUED: 21-12-2024
UNLESS OTHERWISE SPECIFIED: STD. TOLARANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		TITLE: BRR I WHOLE FEED COMBINE HARVESTER (BRR I WCH2024)		
		DRG. NAME: Working Clutch Lever Assembly		
THIRD ANGLE PROJECTION:		DWG NO: ASS_WCLA_137_A4		
		MANUFACTURING METHOD: Machining, Bending, Welding, Molding		A4
DETAILS NAME SIGNATURE DATE		WEIGHT: 1.22 kg		MATERIAL:
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	SCALE: 1:1.6	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	SHEET: 137	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	REVISION: A	
DATE		2-10-2025		
DATE		2-10-2025		
DATE		2-10-2025		


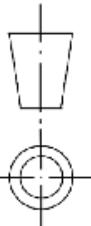


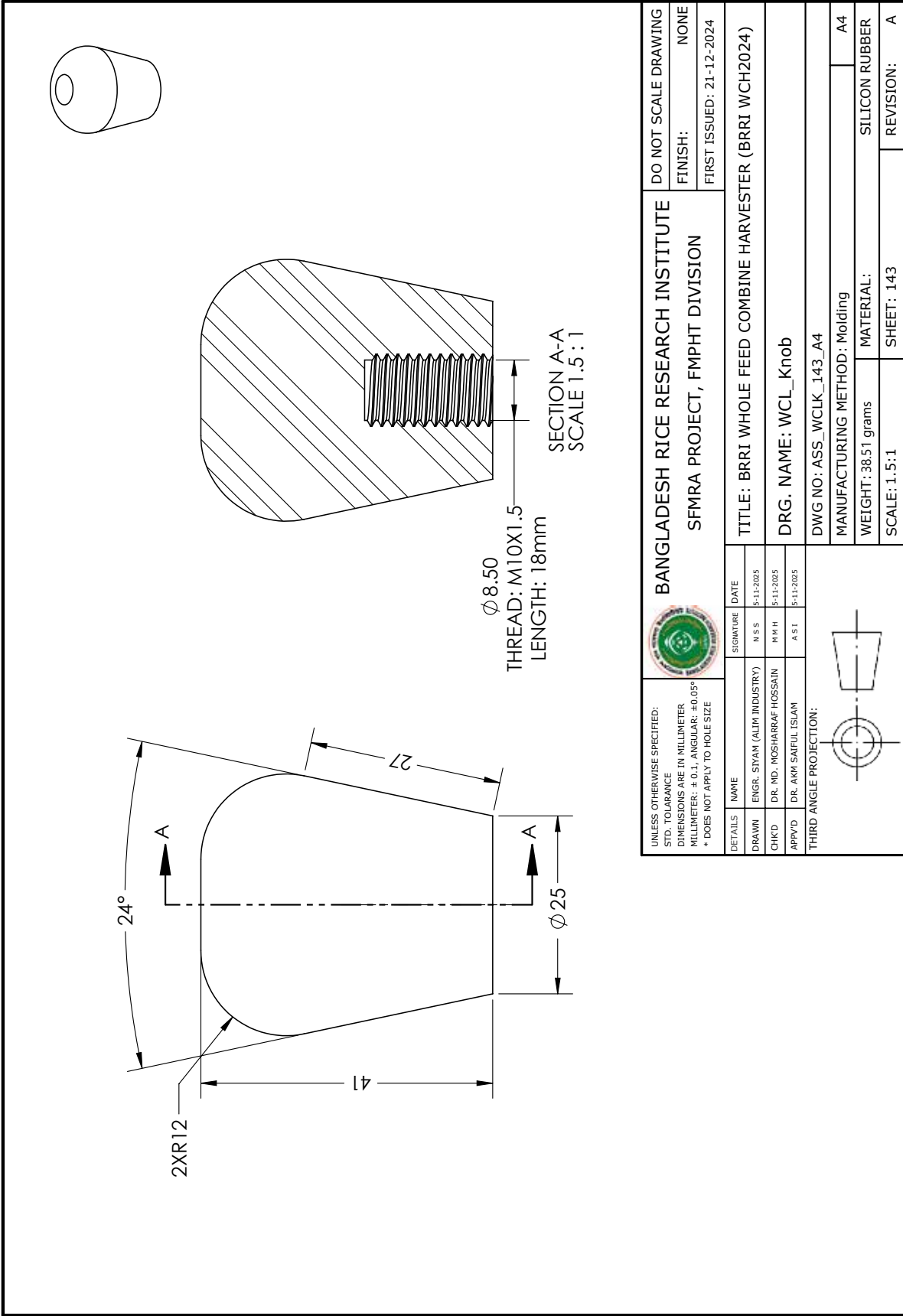



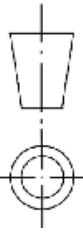






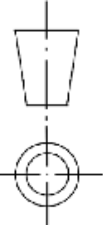
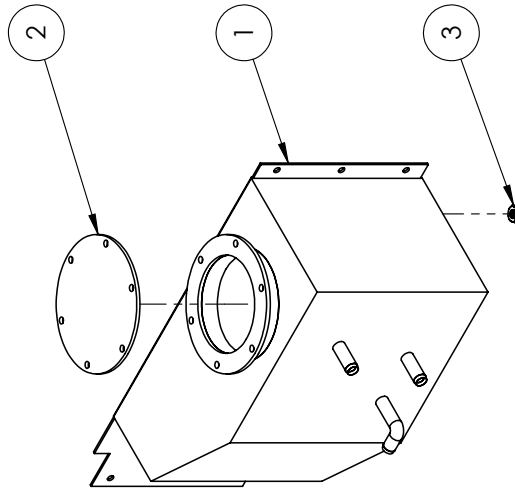
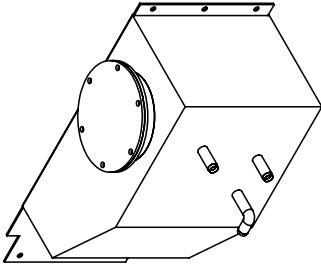
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME ENGR. SIYAM (ALIM INDUSTRY) CHK'D DR. MD. MOSHARRAF HOSSAIN APP'D DR. AKM SAIFUL ISLAM		SIGNATURE N S S M H H A S I		DATE 2-10-2025 2-10-2025 2-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: WCL_Bush DWG NO: ASS_WCLB_142_A4	
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Machining WEIGHT: 45.50 grams SCALE: 1.5:1		MATERIAL: ASTM A36 STEEL SHEET: 142 REVISION: A	




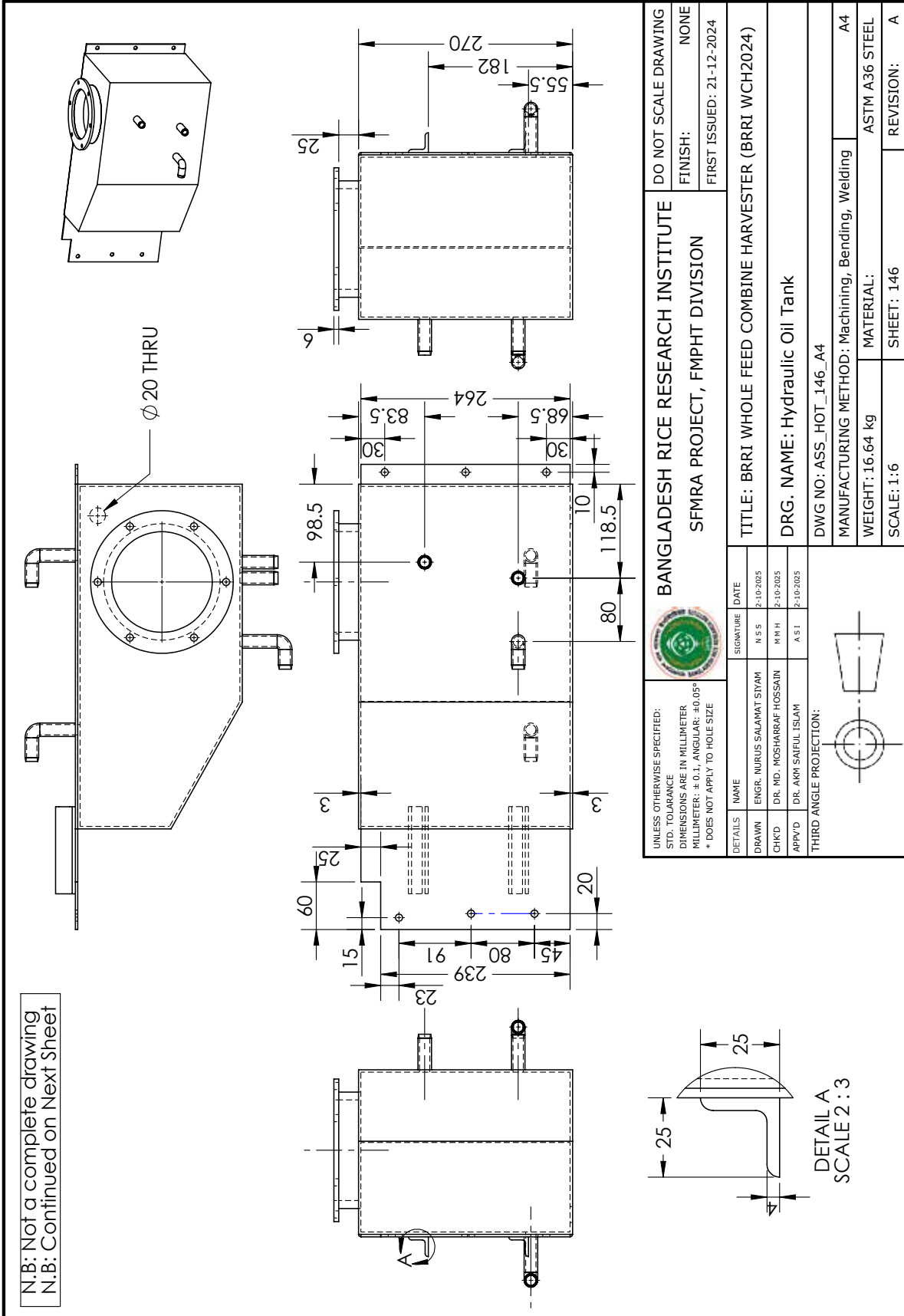
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. SIYAM (ALIM INDUSTRY)	N S S	5-11-2025	DRG. NAME: WCL_Knob			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	5-11-2025	DWG NO: ASS_WCLK_143_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	5-11-2025	MANUFACTURING METHOD: Molding			
THIRD ANGLE PROJECTION:				WEIGHT: 38.51 grams			
				MATERIAL: SILICON RUBBER			
				SCALE: 1.5:1			
				SHEET: 143			
				REVISION: A			

Sub- assembly 04
Hydraulic section
Sheet no. 144 – 147


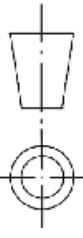
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Hydraulic Oil Tank	1	ASS_HOT_145_A4, ASS_HOT_146_A4	ASTM A36 STEEL
2	HOT_Cover	1	ASS_HOTC_147_A4	ASTM A36 STEEL
3	HOT_Nut_12mm	1		

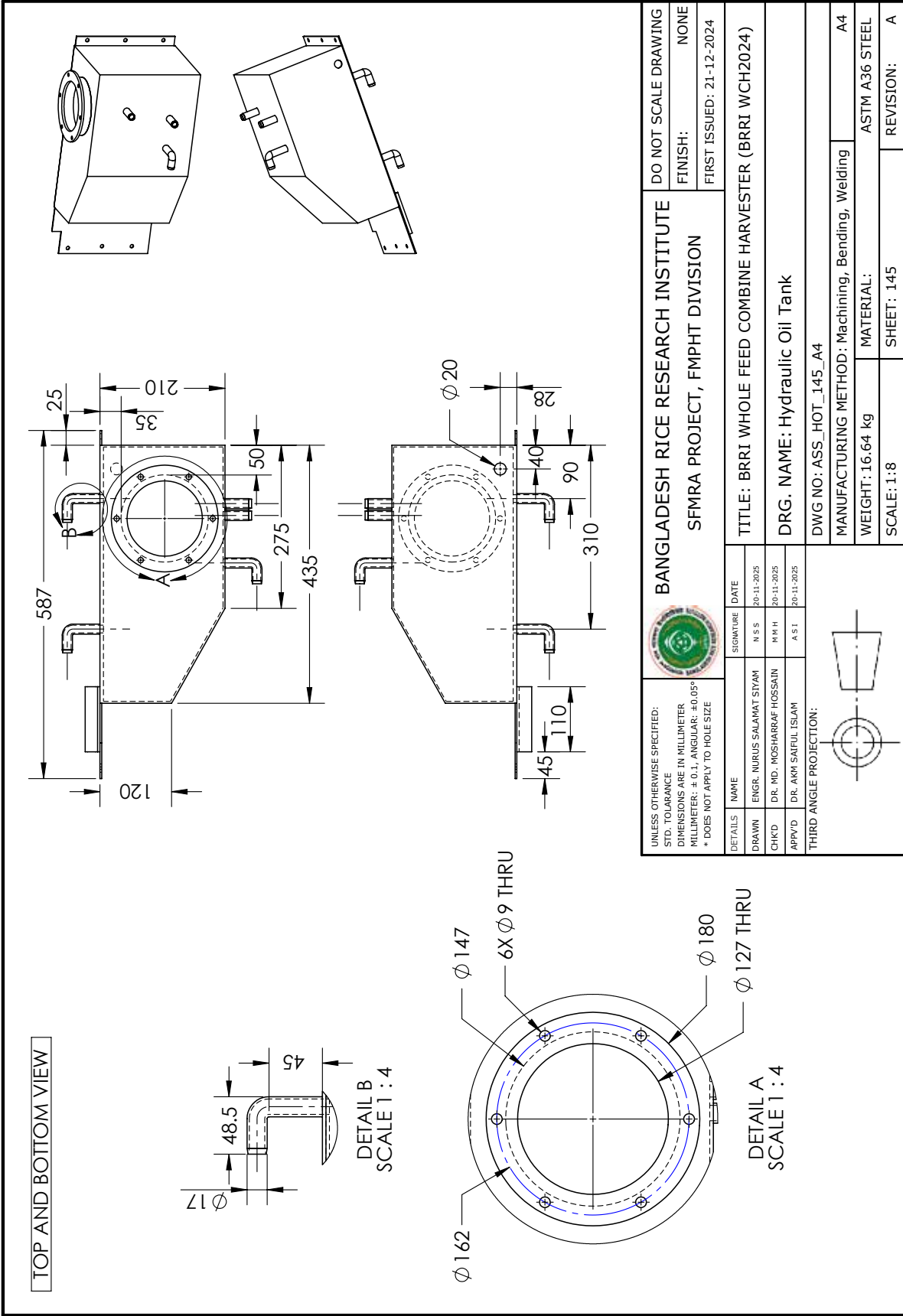


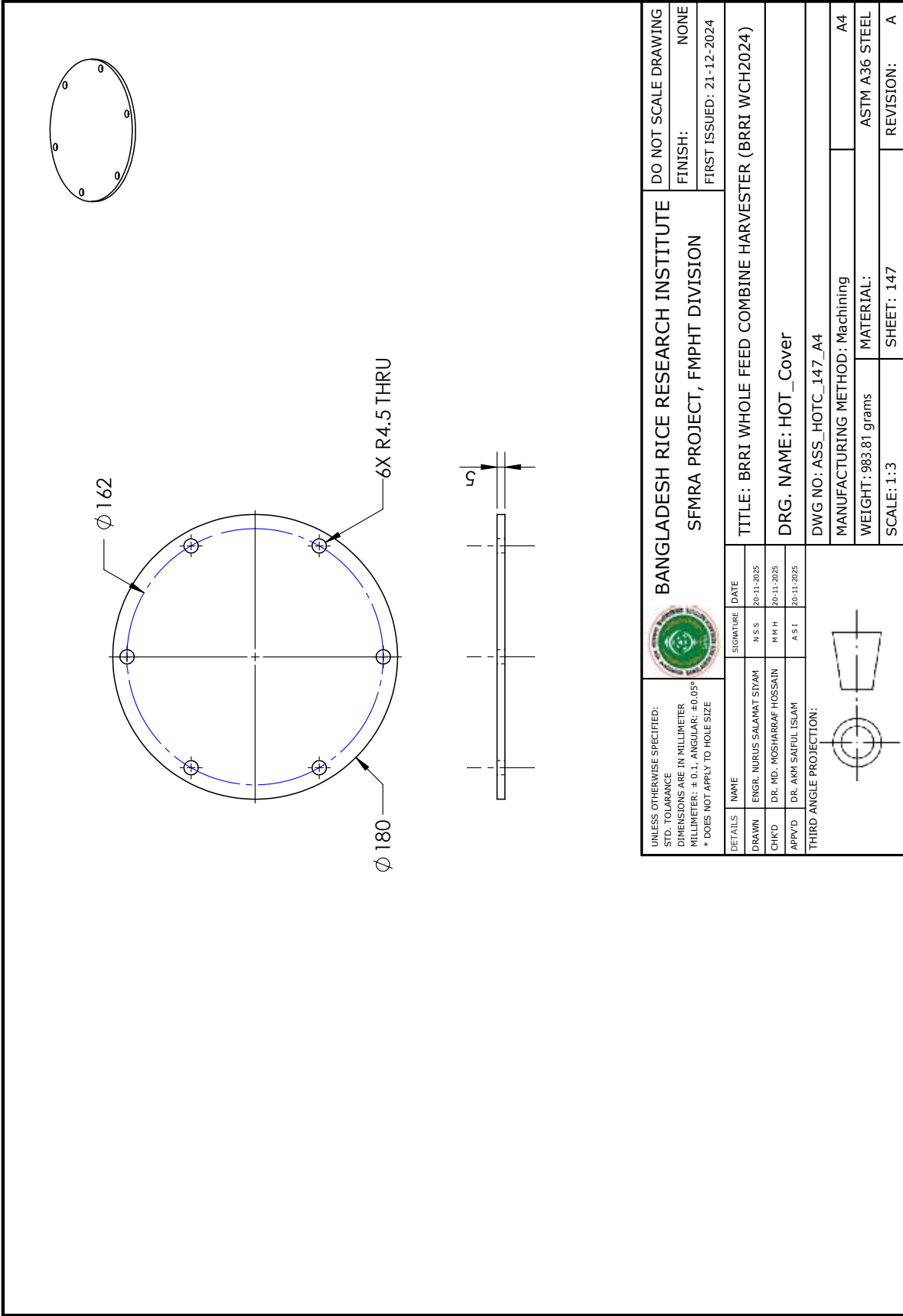
 UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE	BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Hydraulic Oil Tank Assembly DWG NO: ASS_HOT_144_A4		FINISH: NONE FIRST ISSUED: 21-12-2024
DETAILS DRAWN: ENGR. NURUS SALAMAT SIYAM CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'VD: DR. AKM SAIFUL ISLAM	SIGNATURE N S S M R H A S I	DATE 2-10-2025 2-10-2025 2-10-2025	
THIRD ANGLE PROJECTION:		MANUFACTURING METHOD: Machining , Bending, Welding WEIGHT: 17.64 kg SCALE: 1:8	REVISION: A



N.B: Not a complete drawing
 N.B: Continued on Next Sheet

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	2-10-2025	DRG. NAME: Hydraulic Oil Tank			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	2-10-2025	DWG NO: ASS_HOT_146_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining, Bending, Welding			
THIRD ANGLE PROJECTION:						MATERIAL: ASTM A36 STEEL	
				WEIGHT: 16.64 kg		REVISION: A	
				SCALE: 1:6		SHEET: 146	





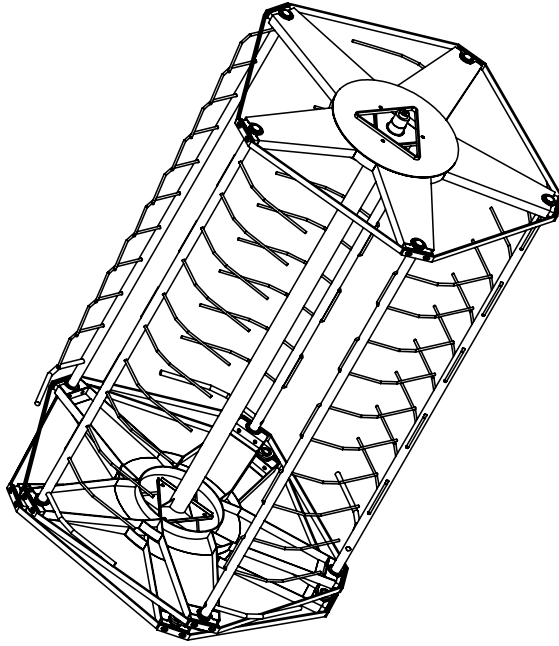
Sub- assembly 05


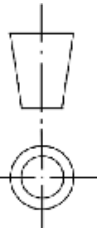
Reel section

Sheet no. 148 – 182

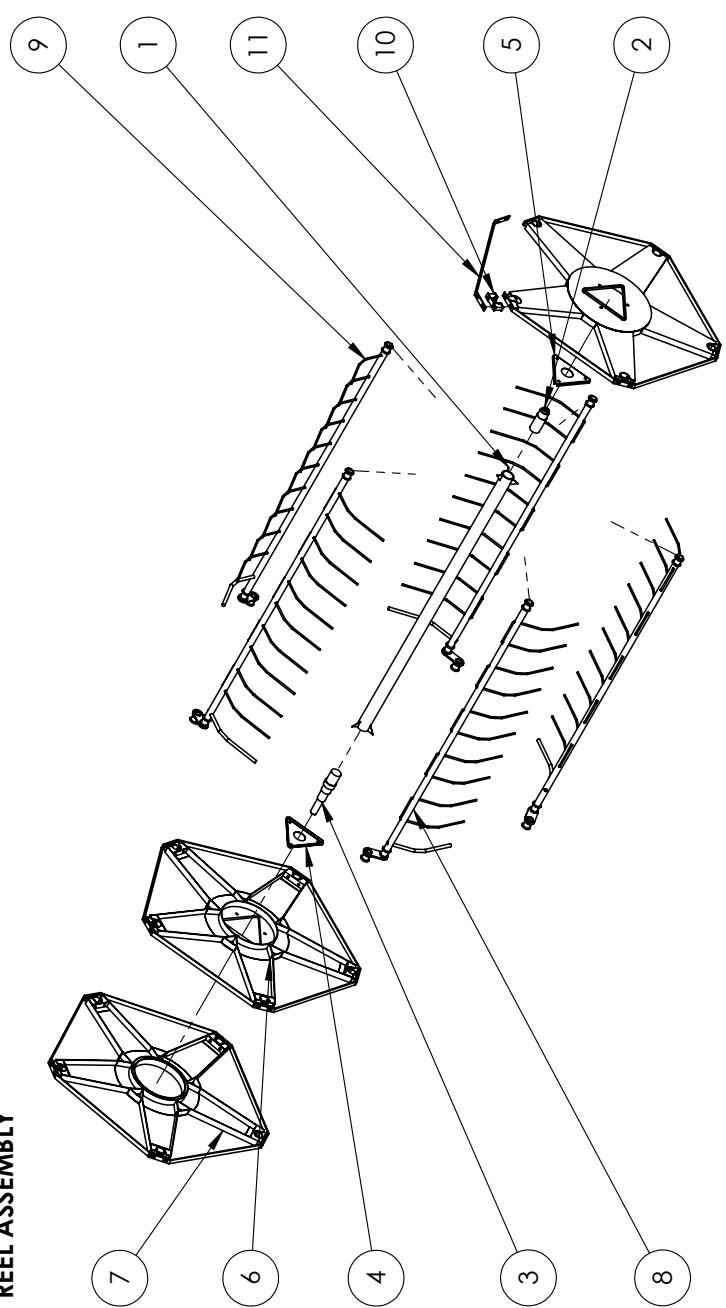
BILL OF MATERIAL: REEL ASSEMBLY


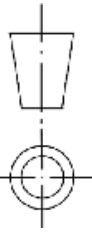
ITEM NO.	PART NUMBER	QTY.	PART NUMBER	MATERIAL
1	Reel Pipe - Center	1	ASS_RPC_150_A4	ASTM A36 STEEL
2	Reel Shaft RS	1	ASS_RSR_151_A4	ASTM A36 STEEL
3	Reel Shaft LS	1	ASS_RSL_152_A4	ASTM A36 STEEL
4	RPC - Sheet - 1	1	ASS_RPCS1_153_A4	ASTM A36 STEEL
6	Eccentric Spoke	2	ASS_ES_154_A4, ASS_ES_155_A4	ASTM A36 STEEL
7	Eccentric Spoke Adjusting	1	ASS_ESA_156_A4, ASS_ESA_157_A4	ASTM A36 STEEL
8	Reel Pipe with Teeth - 1	3	ASS_RPT1_158_A4	ASTM A36 STEEL
9	Reel Pipe with Teeth - 2	2	ASS_RPT2_159_A4	ASTM A36 STEEL
10	Reel Pipe Holder	15	ASS_RPH_160_A4	PTFE
11	Reel Strength Bar	15	ASS_RSB_161_A4	ASTM A36 STEEL

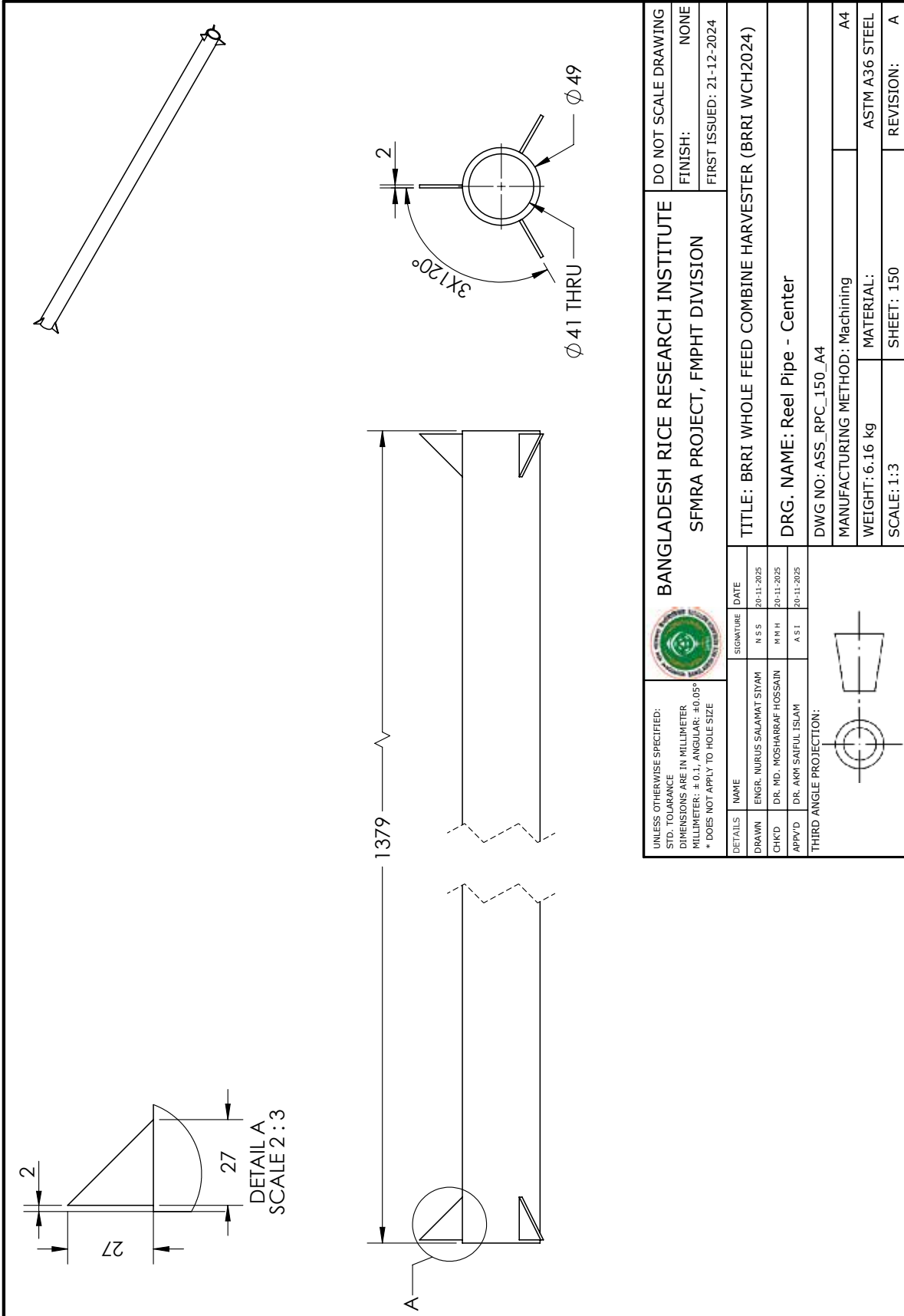



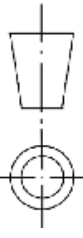
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024) DRG. NAME: Reel Assembly DWG NO: ASS_RA_148_A4		FINISH: NONE FIRST ISSUED: 21-12-2024
DETAILS DRAWN: ENGR. NURUS SALAMAT SIYAM CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'VD: DR. AKM SAIFUL ISLAM	NAME N S S M R H A S I	SIGNATURE N S S M R H A S I	DATE 2-10-2025 2-10-2025 2-10-2025	
THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: Machining, Molding, Bending, Welding WEIGHT: 51.16 kg SCALE: 1:16 MATERIAL: SHEET: 148 REVISION: A		

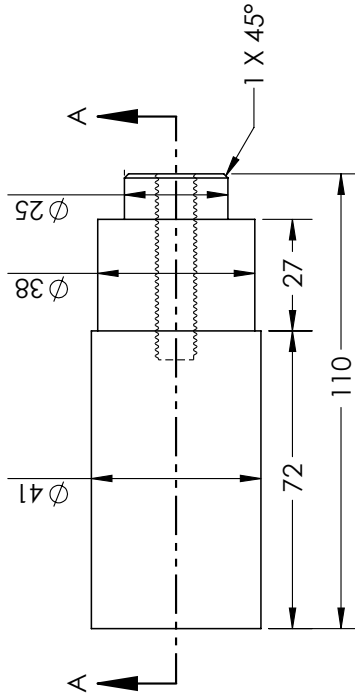
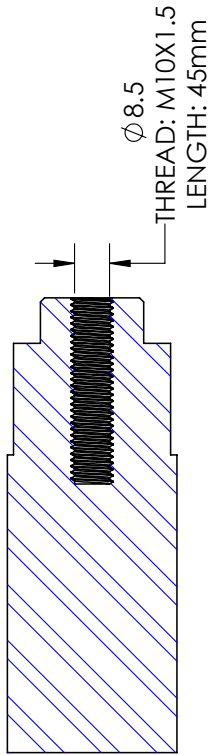
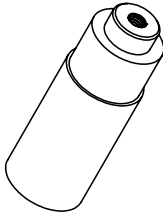
EXPLODED VIEW: REEL ASSEMBLY


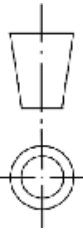


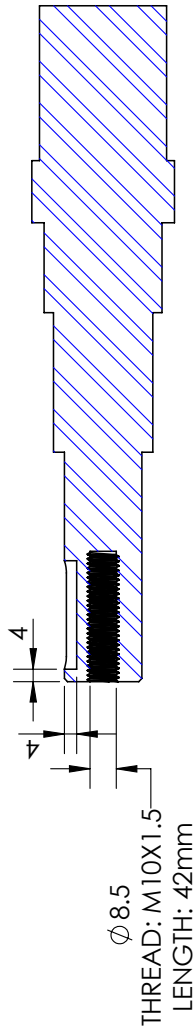
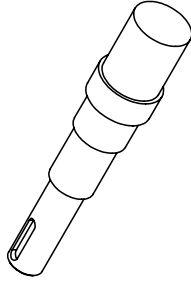
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME SIGNATURE DATE DRAWN ENGR. NURUS SALAMAT SIYAM N S S 2-10-2025 CHK'D DR. MD. MOSHARRAF HOSSAIN M H H 2-10-2025 APP'VD DR. AKM SAIFUL ISLAM A S I 2-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Reel Assembly DWG NO: ASS_RA_149_A4		MANUFACTURING METHOD: Machining, Molding, Bending, Welding A4 WEIGHT: 51.16 kg MATERIAL: SCALE: 1:24 SHEET: 149 REVISION: A			
THIRD ANGLE PROJECTION:							



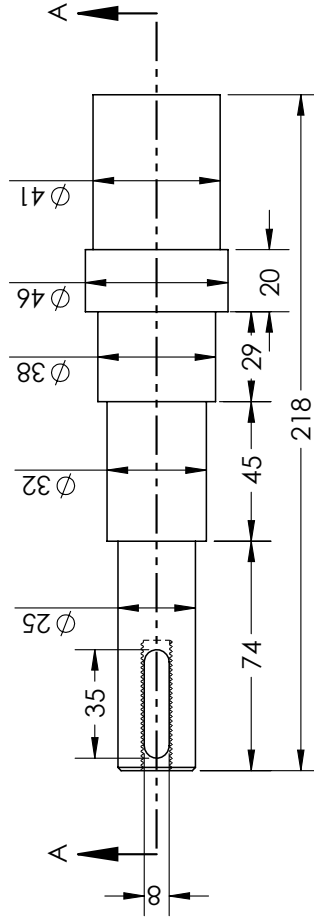
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE			BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
			SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE
			TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)		FIRST ISSUED: 21-12-2024
DETAILS NAME SIGNATURE DATE			DRG. NAME: Reel Pipe - Center		
DRAWN ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DWG NO: ASS_RPC_150_A4		
CHK'D DR. MD. MOSHARRAF HOSSAIN	M H H	20-11-2025	MANUFACTURING METHOD: Machining		
APP'VD DR. AKM SAIFUL ISLAM	A S I	20-11-2025	WEIGHT: 6.16 kg		
THIRD ANGLE PROJECTION:			SCALE: 1:3		
			MATERIAL: ASTM A36 STEEL		
			SHEET: 150		
			REVISION: A		


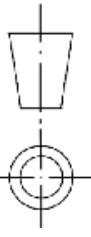


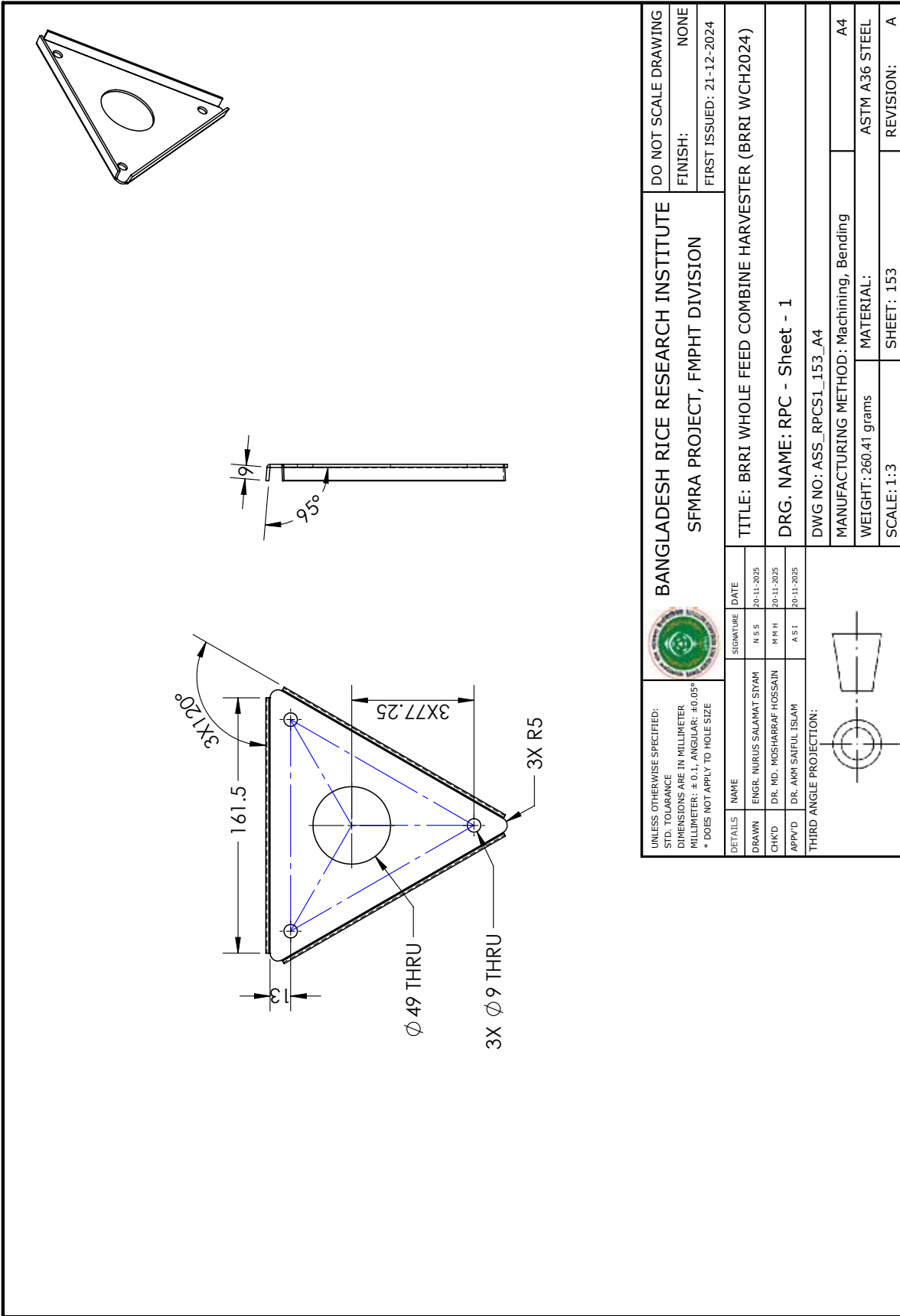
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	20-11-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	
THIRD ANGLE PROJECTION:		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		
		DRG. NAME: Reel Shaft RS		
		DWG NO.: ASS_RSR_151_A4		
		MANUFACTURING METHOD: Machining		
		WEIGHT: 1 kg		
		MATERIAL: ASTM A36 STEEL		
		SCALE: 2:3		
		SHEET: 151		
		REVISION: A		



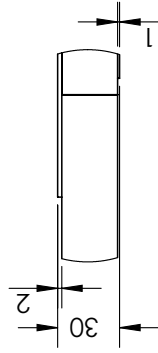
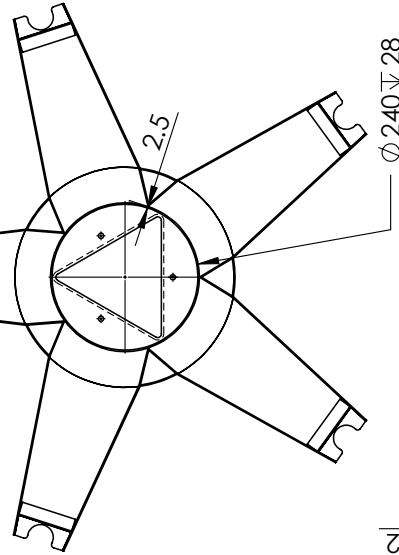
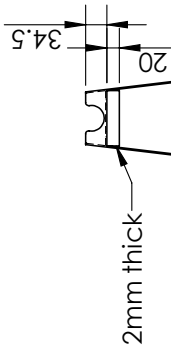
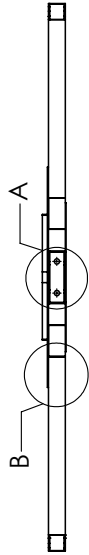
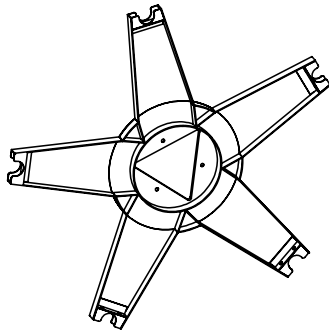
SECTION A-A
SCALE 1:2



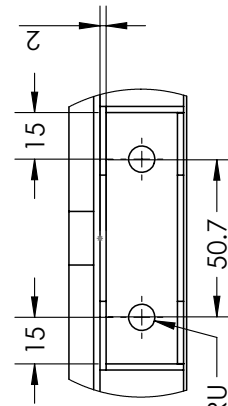
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Reel Shaft LS			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	20-11-2025	DWG NO.: ASS_RSL_152_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:						MATERIAL: ASTM A36 STEEL	
				WEIGHT: 1.58 kg		REVISION: A	
				SCALE: 1:2		SHEET: 152	



N.B: Not a complete drawing
 N.B: Continued on Next Sheet


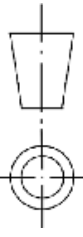


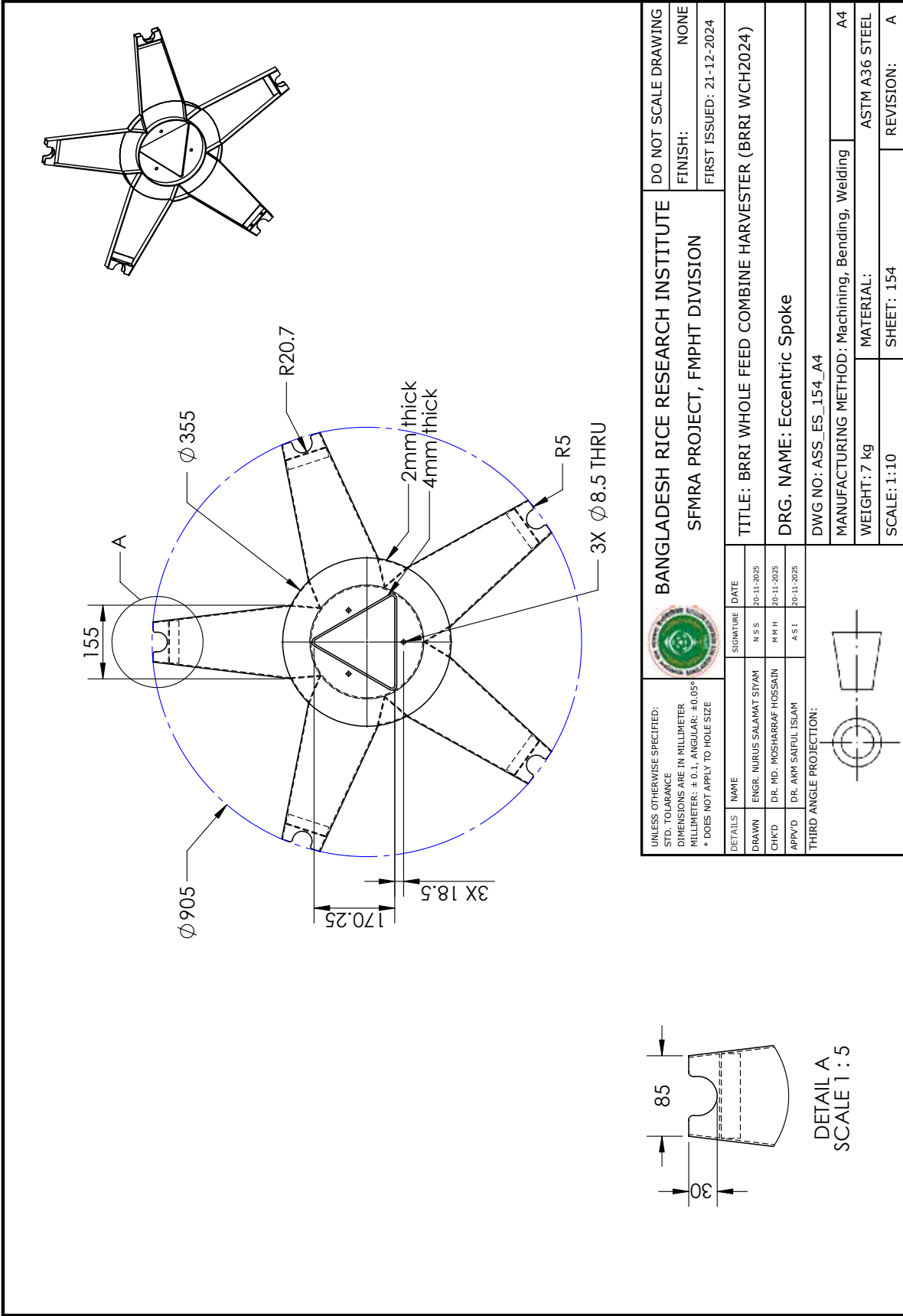
DETAIL B
 SCALE 1 : 3


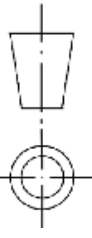


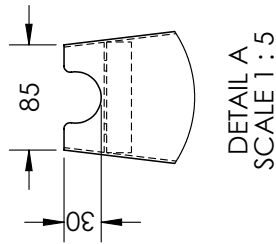
10 X Ø 8.5 THRU

DETAIL A
 SCALE 1 : 2

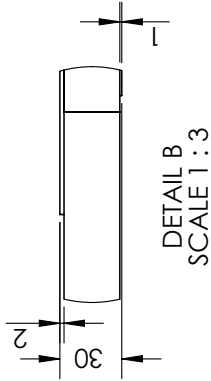
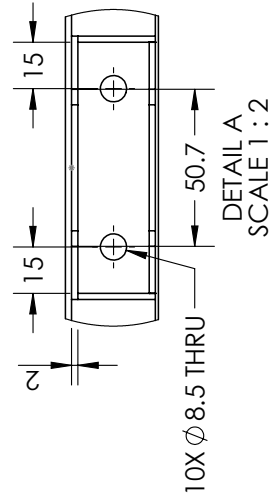
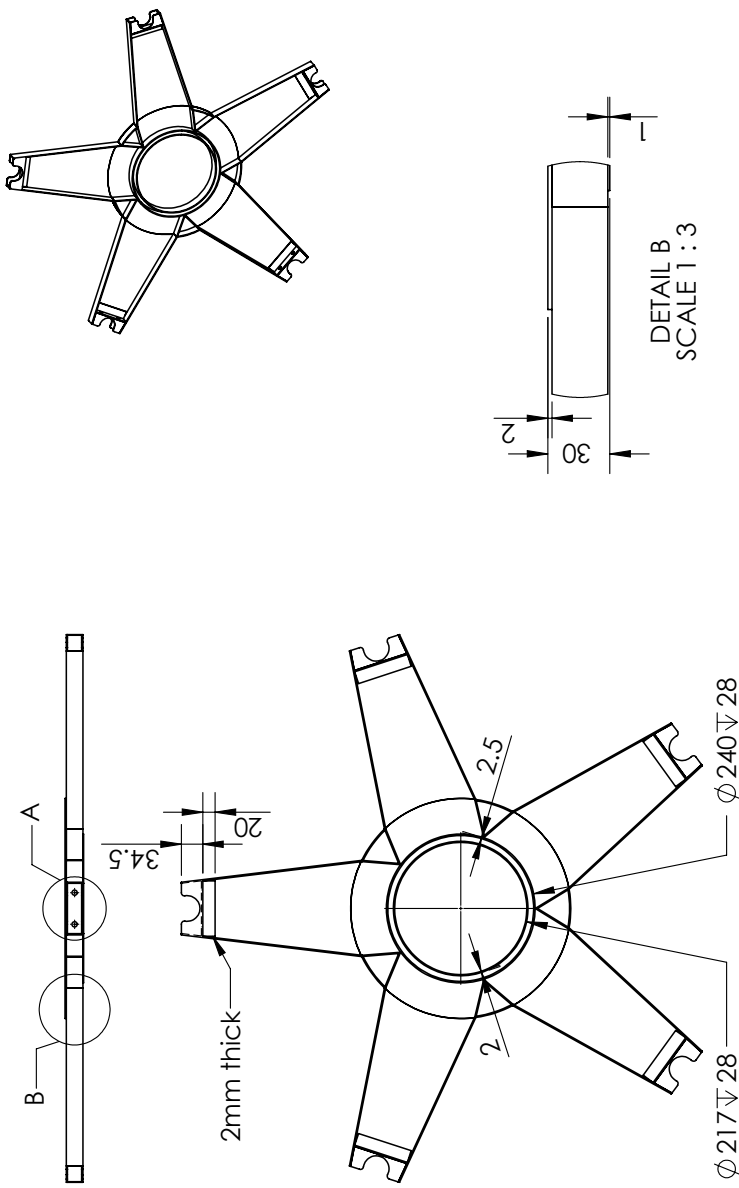
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Eccentric Spoke			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	20-11-2025	DWG NO: ASS_ES_155_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Machining, Bending, Welding			
THIRD ANGLE PROJECTION:						WEIGHT: 7 kg SCALE: 1:10	
				MATERIAL: ASTM A36 STEEL		SHEET: 155 REVISION: A	


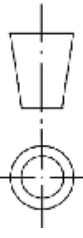


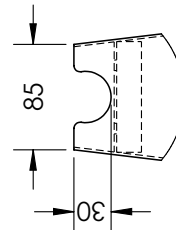
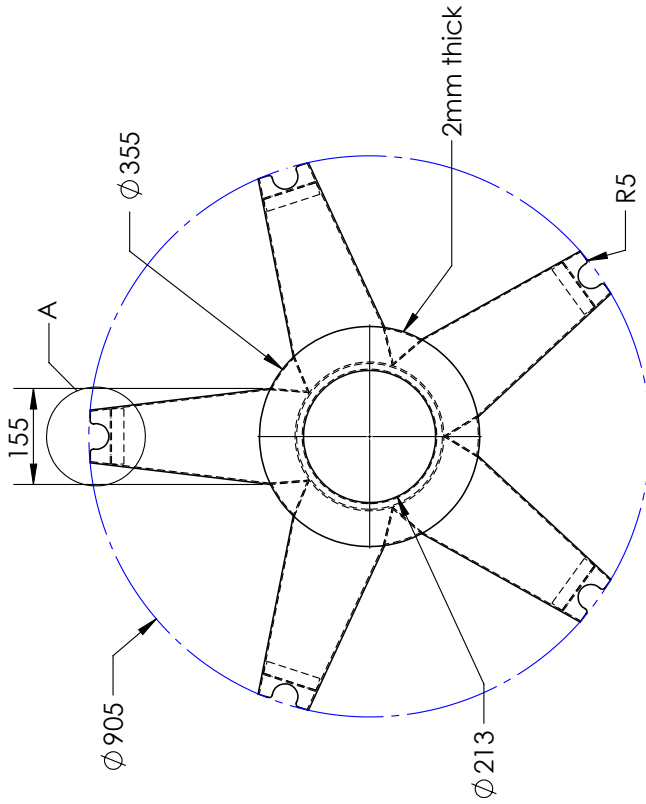
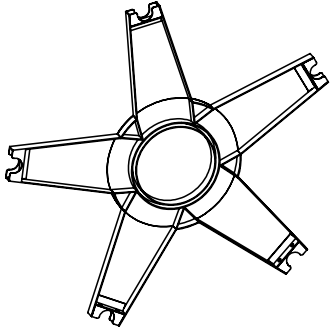
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Eccentric Spoke			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	20-11-2025	DWG NO: ASS_ES_154_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Machining, Bending, Welding			
THIRD ANGLE PROJECTION:						WEIGHT: 7 kg SCALE: 1:10	
				MATERIAL: ASTM A36 STEEL		REVISION: A	




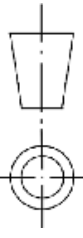
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 N.B: Continued on Sheet

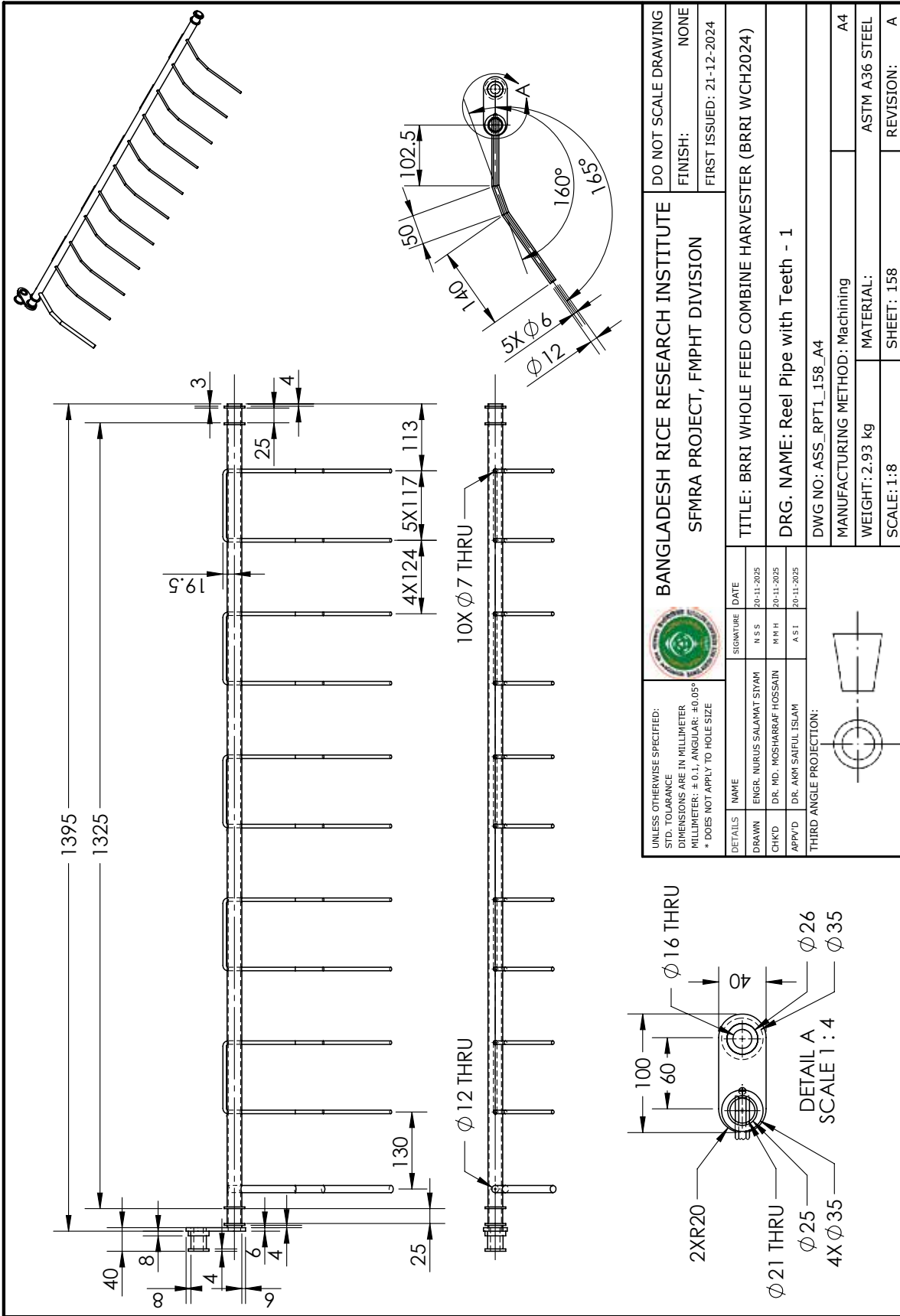


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Eccentric Spoke with Adjusting			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	20-11-2025	DWG NO: ASS_ESA_156_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Machining, Bending, Welding			
THIRD ANGLE PROJECTION:						WEIGHT: 6.88 kg MATERIAL: ASTM A36 STEEL	
				SCALE: 1:10		SHEET: 156	
						REVISION: A	

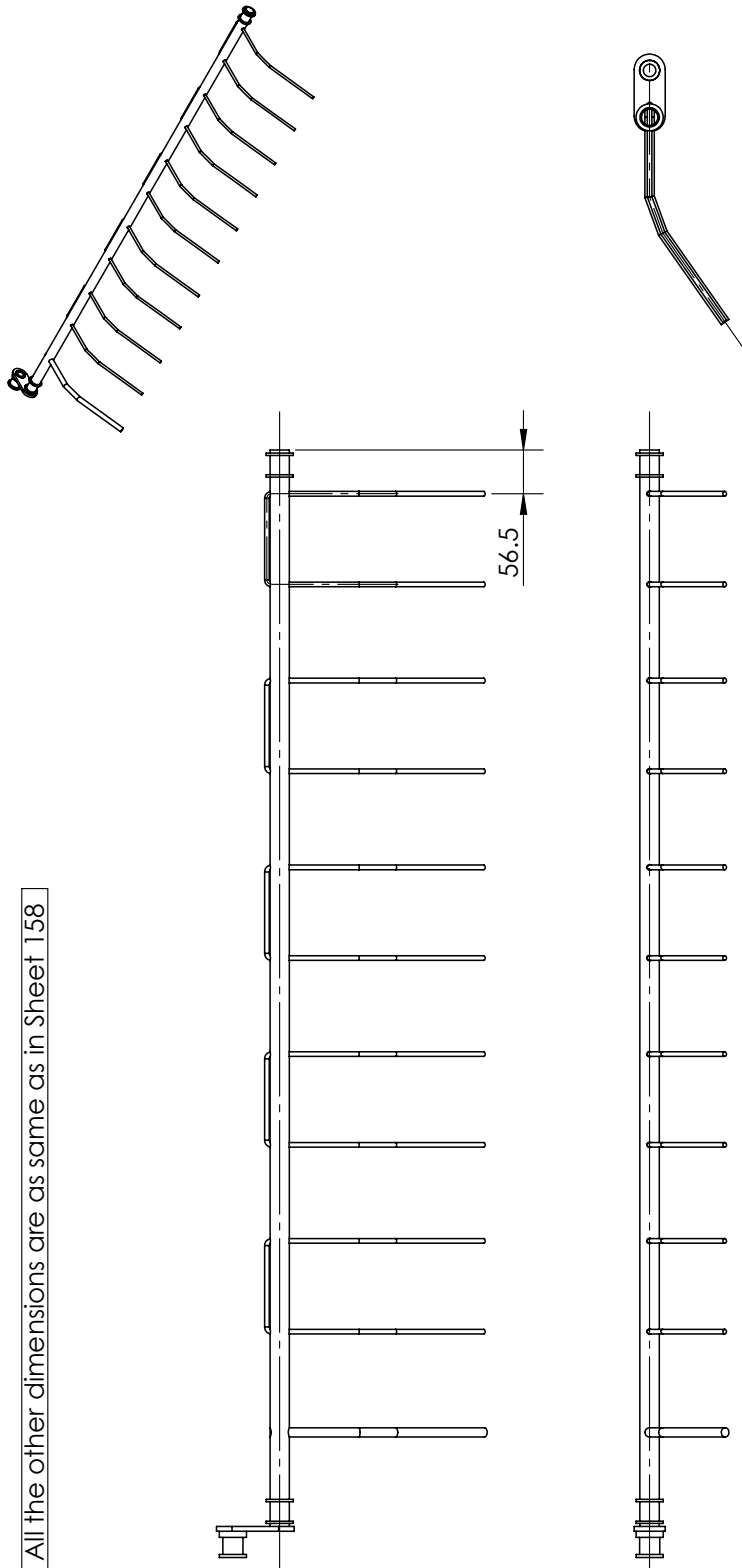



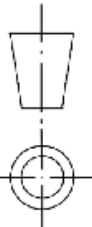
DETAIL A
SCALE 1 : 5

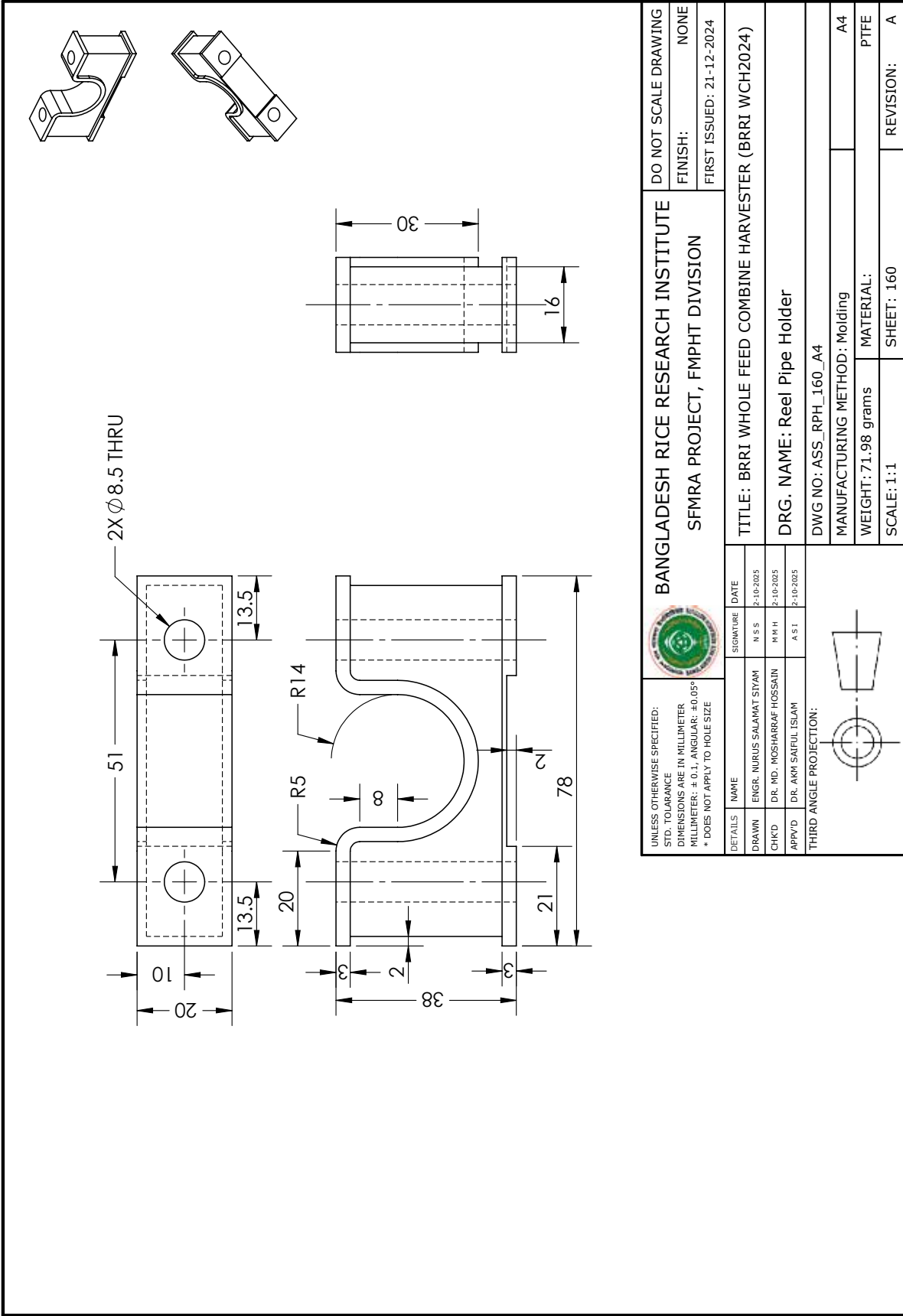
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Eccentric Spoke with Adjusting			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	20-11-2025	DWG NO: ASS_ESA_157_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Machining, Bending, Welding			
THIRD ANGLE PROJECTION:						WEIGHT: 6.88 kg MATERIAL: ASTM A36 STEEL	
				SCALE: 1:10		SHEET: 157	
						REVISION: A	



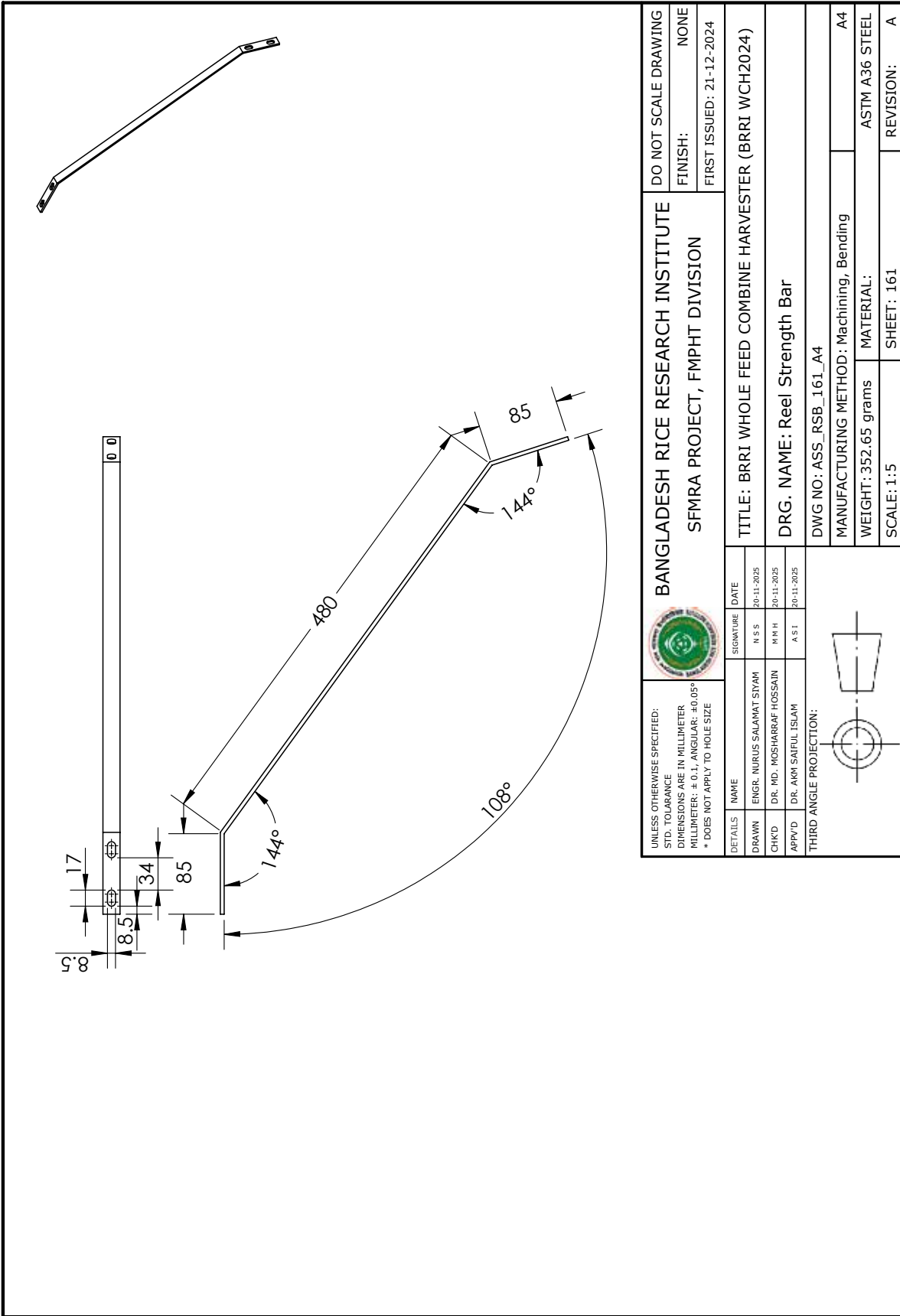
N.B: All the other dimensions are as same as in Sheet 158

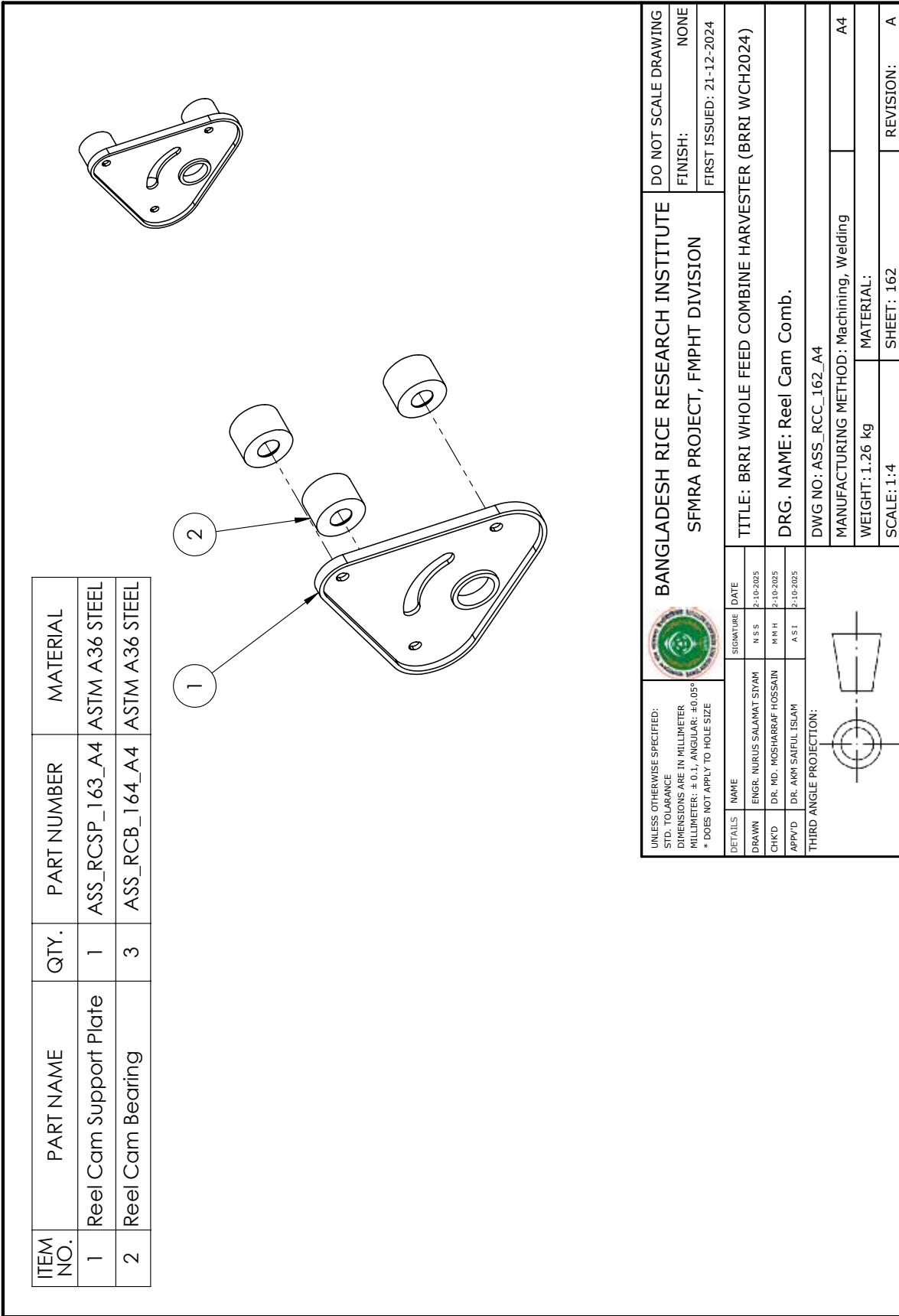


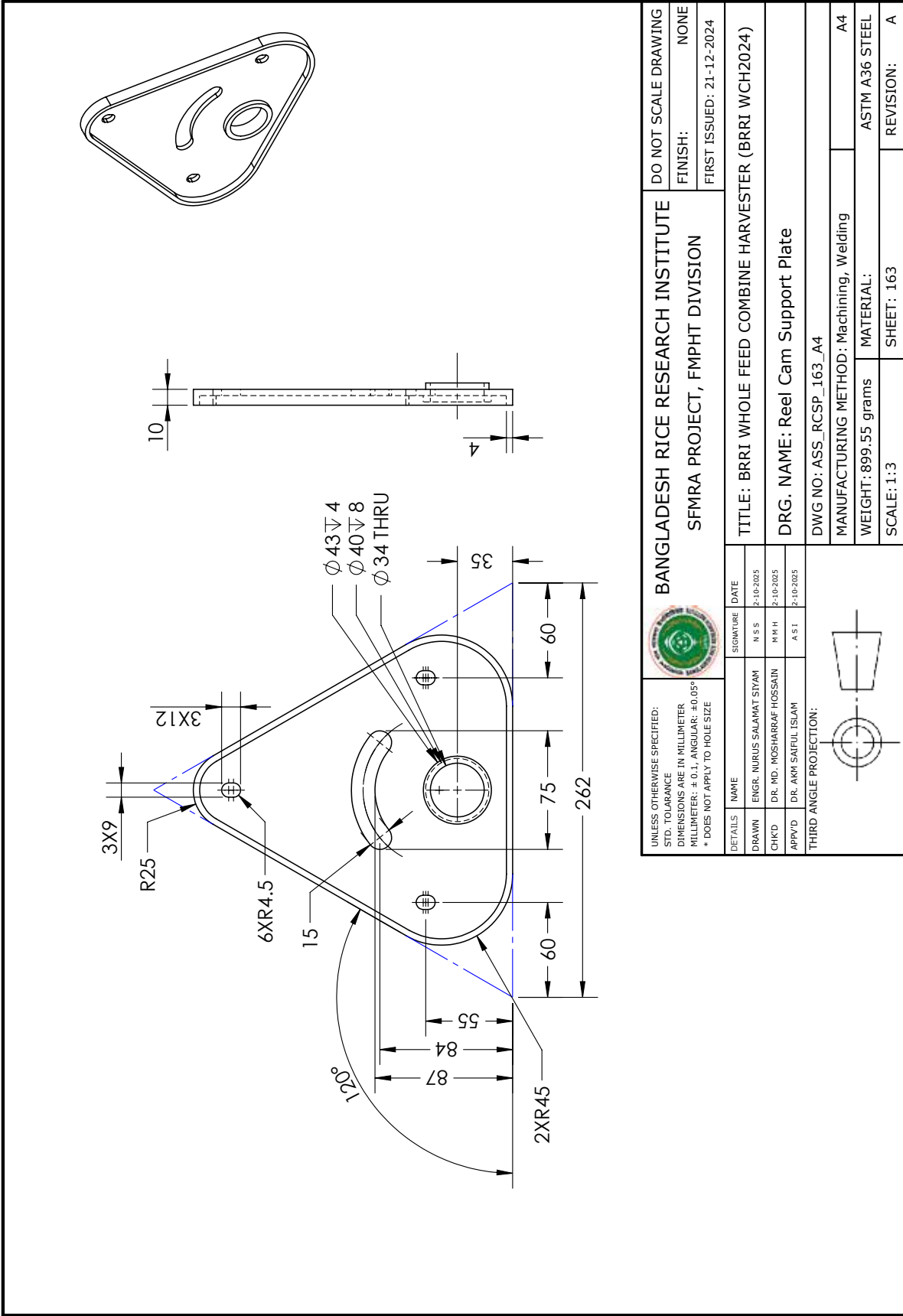
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Reel Pipe with Teeth - 2			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	20-11-2025	DWG NO.: ASS_RPT2_159_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:							
				WEIGHT: 2.93 kg		MATERIAL: ASTM A36 STEEL	
				SCALE: 1:8		SHEET: 159	
						REVISION: A	

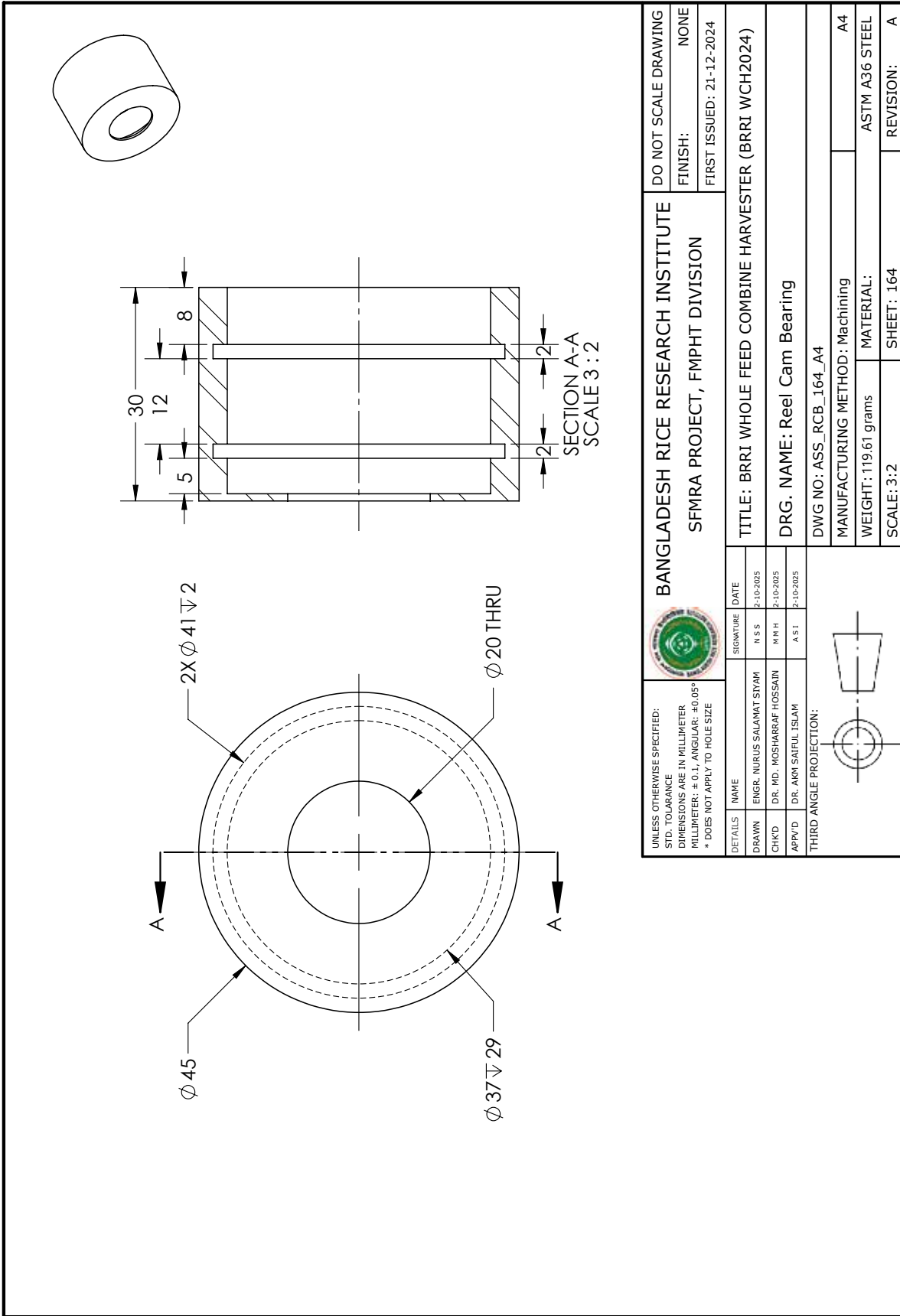



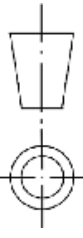
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		SIGNATURE		DATE	DO NOT SCALE DRAWING	
DRAWN ENGR. NURUS SALAMAT SIYAM		N S S		2-10-2025	FINISH: NONE	
CHK'D DR. MD. MOSHARRAF HOSSAIN		M R H		2-10-2025	FIRST ISSUED: 21-12-2024	
APP'VD DR. AKM SAIFUL ISLAM		A S I		2-10-2025	TITLE: BRI WHOLE FEED COMBINE HARVESTER (BRI WCH2024)	
THIRD ANGLE PROJECTION:				DRG. NAME: Reel Pipe Holder		
				DWG NO: ASS_RPH_160_A4		
				MANUFACTURING METHOD: Molding		A4
				WEIGHT: 71.98 grams		PTFE
				SCALE: 1:1		SHEET: 160
				REVISION: A		

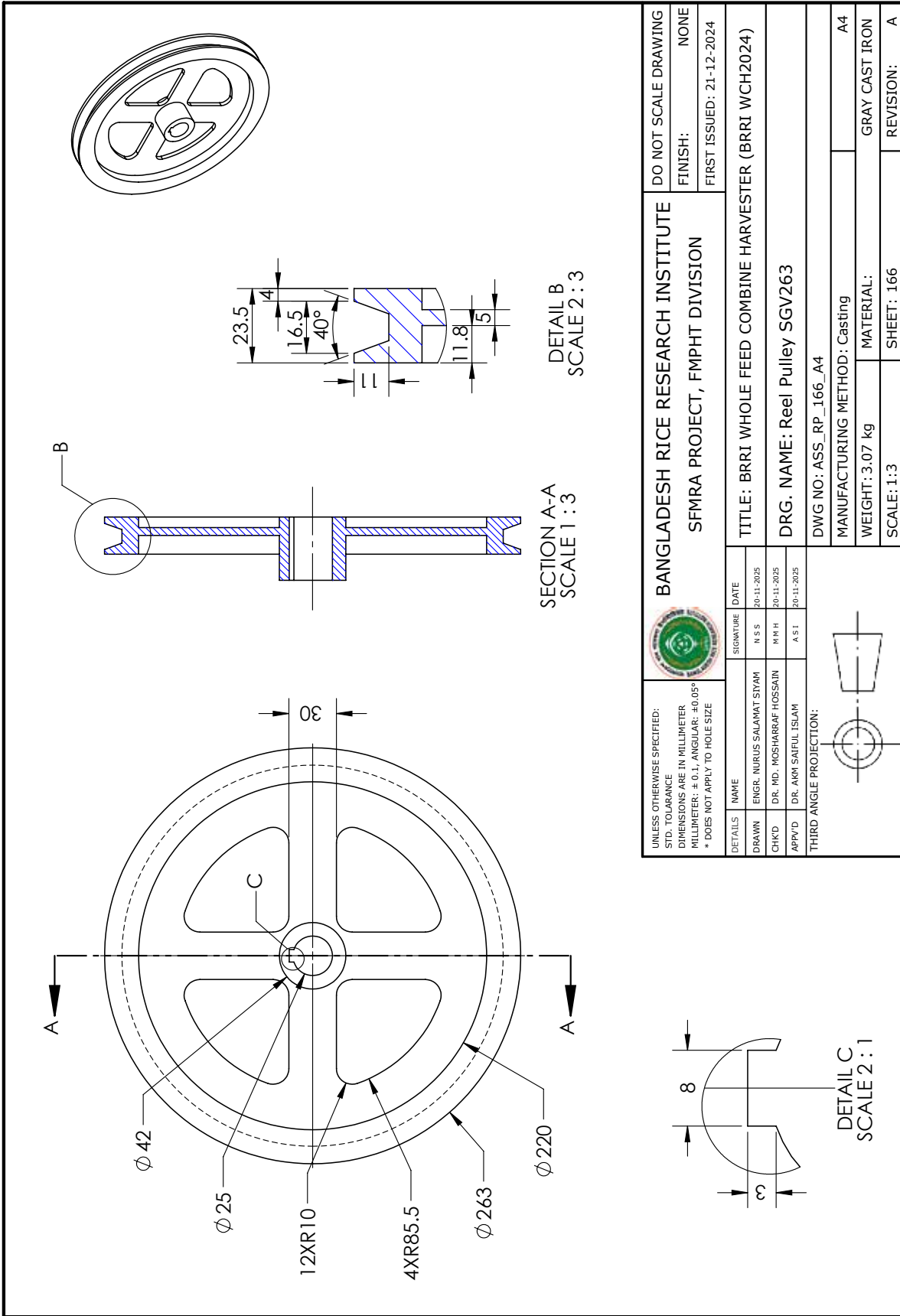








UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	2-10-2025	DRG. NAME: Reel Cam Bearing			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	2-10-2025	DWG NO.: ASS_RCB_164_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:							
				WEIGHT: 119.61 grams		MATERIAL: ASTM A36 STEEL	
				SCALE: 3:2		SHEET: 164	
						REVISION: A	

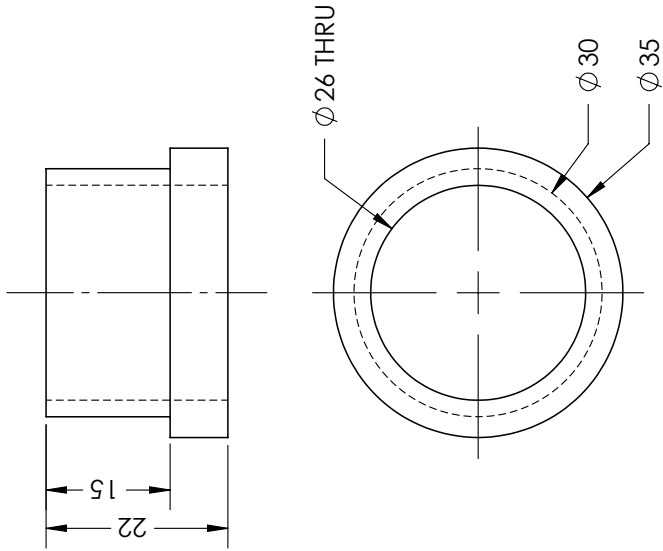
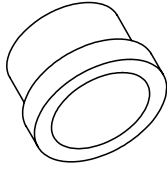



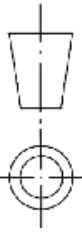
SECTION A-A
SCALE 1 : 3

DETAIL B
SCALE 2 : 3

DETAIL C
SCALE 2 : 1

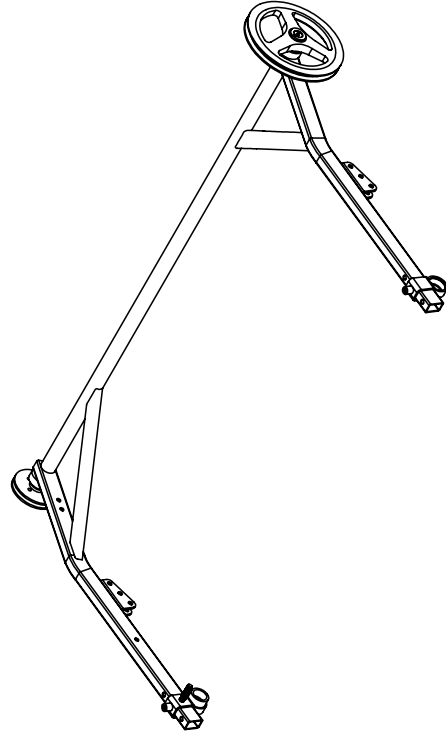
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		SIGNATURE		DATE	DO NOT SCALE DRAWING	
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	FINISH: NONE		FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M N H	20-11-2025	TITLE: BARRI WHOLE FEED COMBINE HARVESTER (BARRI WCH2024)		
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	DRG. NAME: Reel Pulley SGV263		
THIRD ANGLE PROJECTION:			DWG NO.: ASS_RP_166_A4			
			MANUFACTURING METHOD: Casting			
			WEIGHT: 3.07 kg			
			MATERIAL: GRAY CAST IRON			
			SCALE: 1:3			
			SHEET: 166			
			REVISION: A			
					BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION	


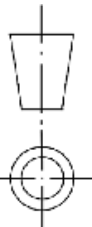


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME ENGR. NURUS SALAMAT SIYAM CHKD DR. MD. MOSHARRAF HOSSAIN APPVD DR. AKM SAIFUL ISLAM		SIGNATURE N S S M H H A S I		DATE 20-11-2025 20-11-2025 20-11-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Reel Pulley Bush DWG NO.: ASS_RPB_167_A4 MANUFACTURING METHOD: Machining WEIGHT: 44.41 grams SCALE: 4:3	
THIRD ANGLE PROJECTION:				MATERIAL: ASTM A36 STEEL SHEET: 167 REVISION: A			

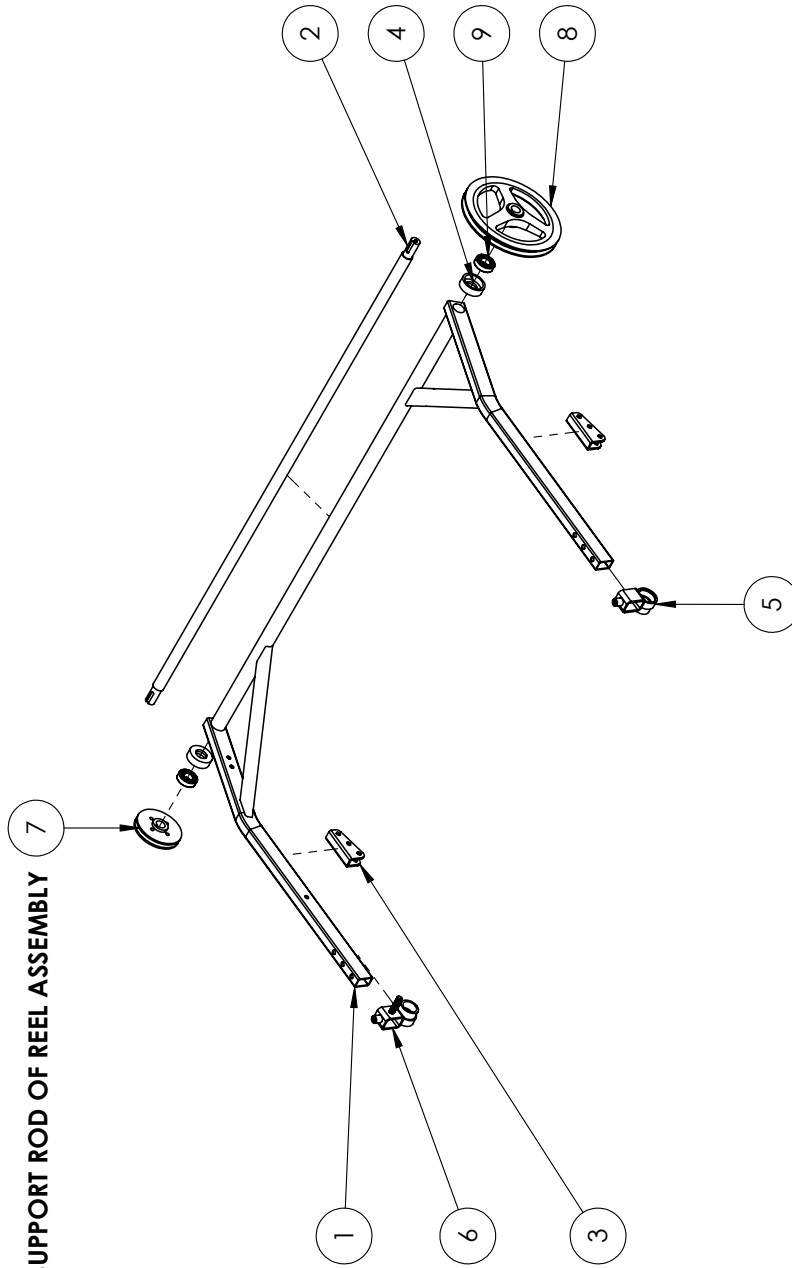
BILL OF MATERIAL: SUPPORT ROD OF REEL ASSEMBLY


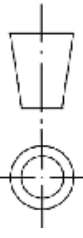
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Support Rod Reel	1	ASS_SRR_170_A4	AISI 1010 STEEL
2	Support Rod Reel Shaft	1	ASS_SRRS_171_A4	ASTM A36 STEEL
3	SRR_Plate_Bended	2	ASS_SRRPB_172_A4	ASTM A36 STEEL
4	SRR_Mount_Bearing	2	ASS_SRRMB_173_A4	ASTM A36 STEEL
5	Side Holder RS	1	ASS_SHR_174_A4	ASTM A36 STEEL
6	Side Holder LS	1	ASS_SHL_175_A4	ASTM A36 STEEL
7	Support Rod Pulley Comb.	1	ASS_SRPC_176_A4	
8	Support Rod Pulley SGV270	1	ASS_SRP_180_A4	GRAY CAST IRON
9	SRR Bearing	2	ASS_SRRB_181_A4	BEARING STEEL

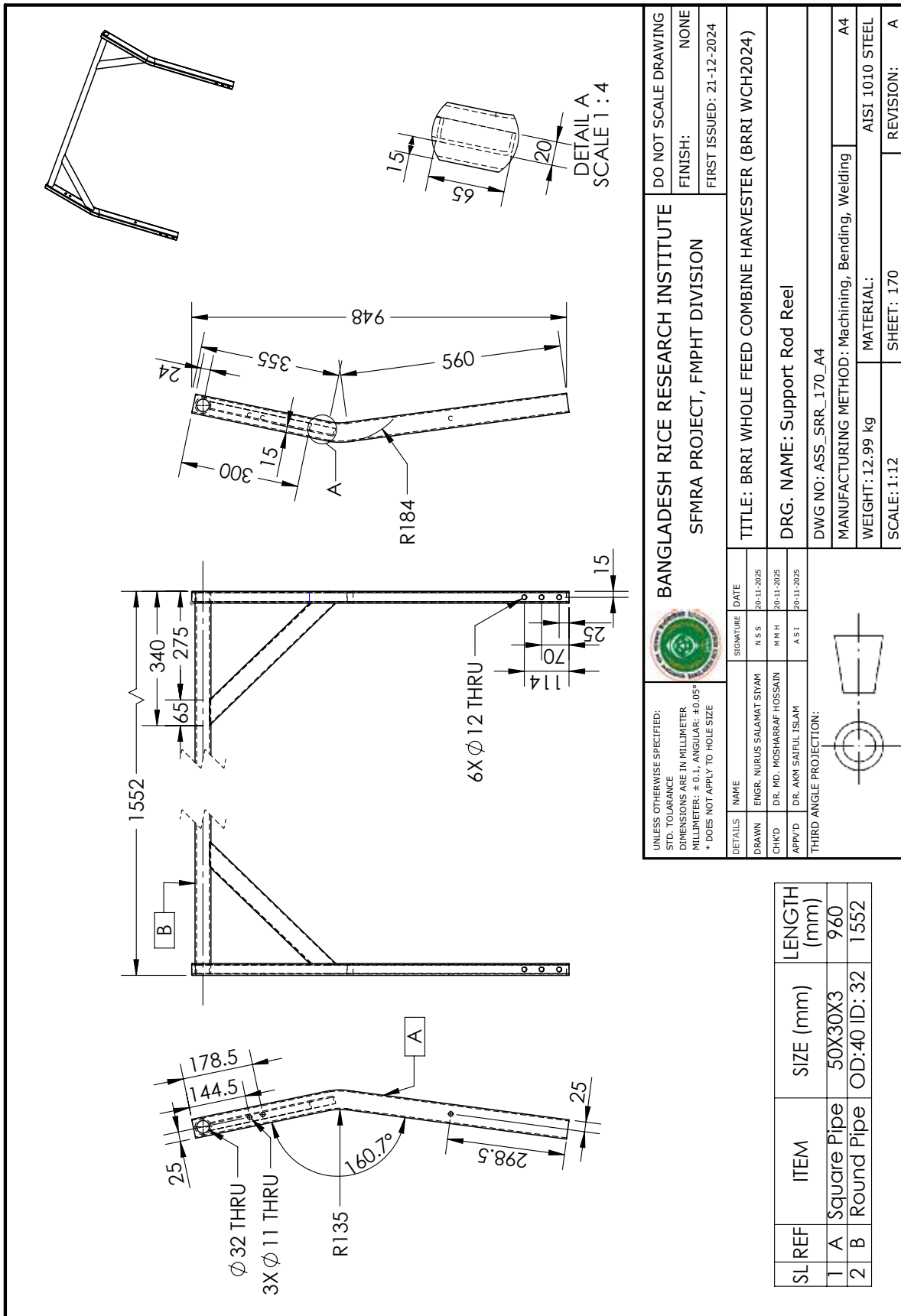



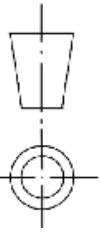
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
		TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)		FINISH: NONE FIRST ISSUED: 21-12-2024
DETAILS NAME DATE		DRG. NAME: Support Rod of Reel Assembly		
DRAWN ENGR. NURUS SALAMAT SIYAM N S S	2-10-2025	DWG NO: ASS_SRR_168_A4		
CHK'D DR. MD. MOSHARRAF HOSSAIN M R H	2-10-2025	MANUFACTURING METHOD: Machining, Casting, Bending, Welding A4		
APP'VD DR. AKM SAIFUL ISLAM A S I	2-10-2025	WEIGHT: 31.01 kg MATERIAL:		
THIRD ANGLE PROJECTION: 		SCALE: 1:12 SHEET: 168 REVISION: A		

EXPLODED VIEW: SUPPORT ROD OF REEL ASSEMBLY

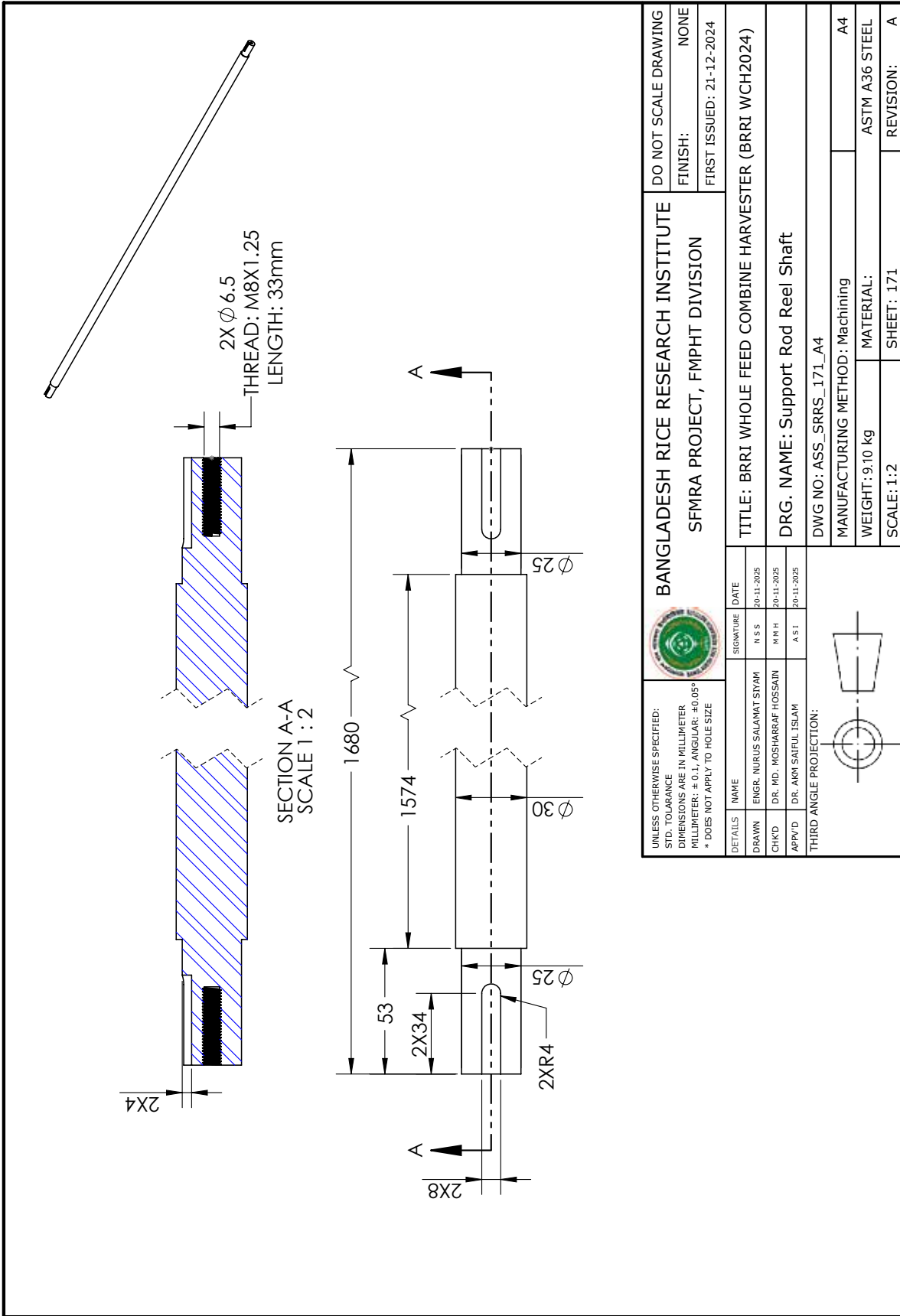


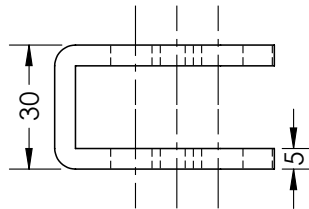
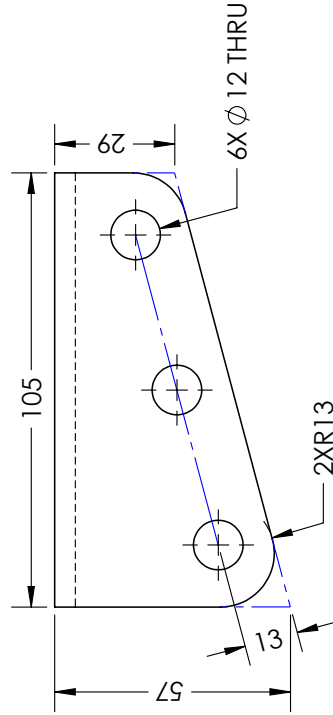
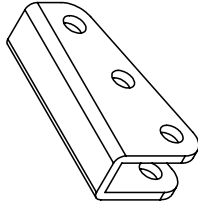
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	2-10-2025	FIRST ISSUED: 21-12-2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	2-10-2025	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	2-10-2025	
THIRD ANGLE PROJECTION:		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		
		DRG. NAME: Support Rod of Reel Assembly		
		DWG NO: ASS_SRRRA_169_A4		
		MANUFACTURING METHOD: Machining, Casting, Bending, Welding		
		WEIGHT: 31.01 kg		
		MATERIAL:		
		SCALE: 1:16		
		SHEET: 169		
		REVISION: A		


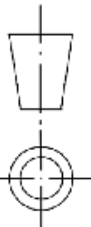


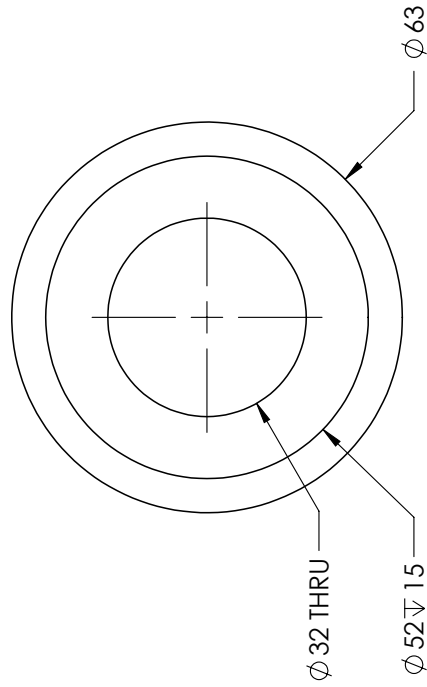
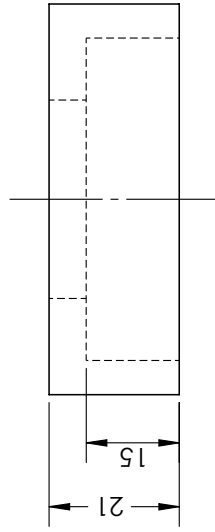
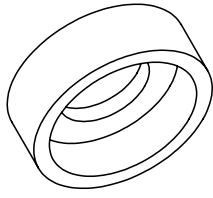
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Support Rod Reel			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	20-11-2025	DWG NO: ASS_SRR_170_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Machining, Bending, Welding A4			
THIRD ANGLE PROJECTION:				WEIGHT: 12.99 kg MATERIAL: AISI 1010 STEEL			
				SCALE: 1:12 SHEET: 170 REVISION: A			





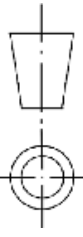
SL REF	ITEM	SIZE (mm)	LENGTH (mm)
1	A	Square Pipe 50X30X3	960
2	B	Round Pipe OD:40 ID:32	1552

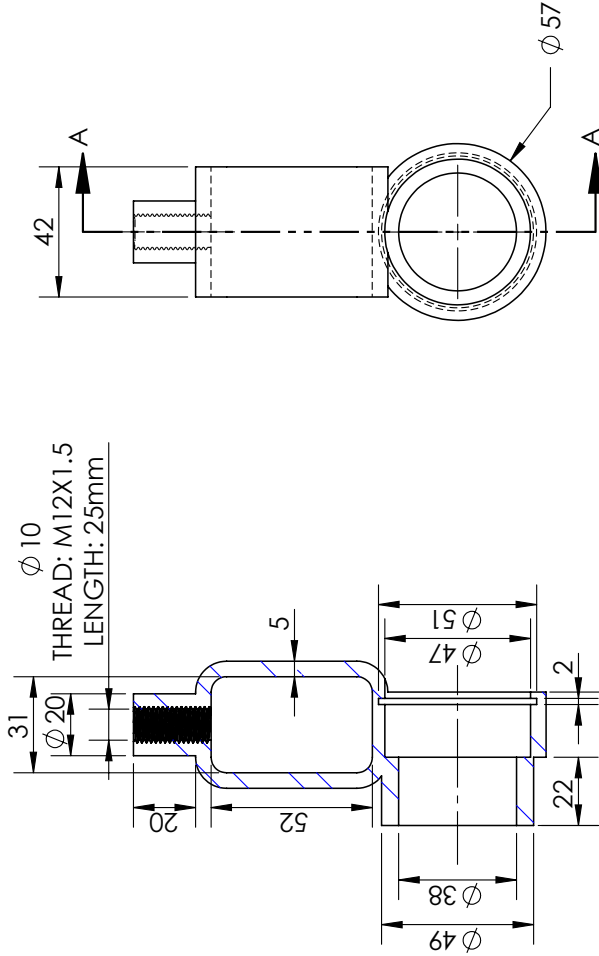
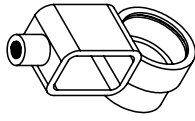





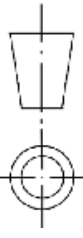
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME ENGR. NURUS SALAMAT SIYAM DR. MD. MOSHARRAF HOSSAIN DR. AKM SAIFUL ISLAM		SIGNATURE N S S M R H A S I		DATE 20-11-2025 20-11-2025 20-11-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: SRR_Plate_Bended DWG NO: ASS_SRRPB_172_A4	
THIRD ANGLE PROJECTION:				MANUFACTURING METHOD: Machining, Bending WEIGHT: 394.75 grams SCALE: 2:3		MATERIAL: ASTM A36 STEEL SHEET: 172 REVISION: A	



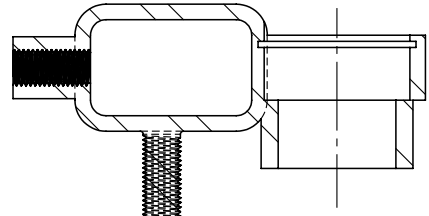
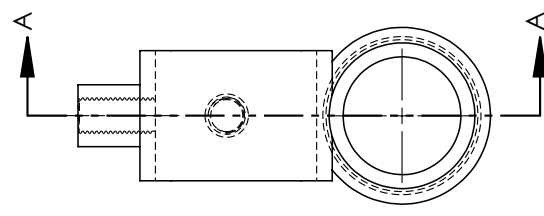
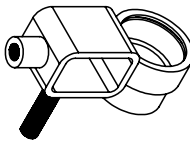
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
		TITLE: BIRRI WHOLE FEED COMBINE HARVESTER (BIRRI WCH2024)		FINISH: NONE FIRST ISSUED: 21-12-2024
DETAILS		NAME	SIGNATURE	DATE
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S		2-10-2025
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H		2-10-2025
APP'VD	DR. AKM SAIFUL ISLAM	A S I		2-10-2025
THIRD ANGLE PROJECTION:				
		DRG. NAME: SRR_Mount_Bearing DWG NO: ASS_SRRMB_173_A4 MANUFACTURING METHOD: Machining WEIGHT: 225.93 grams SCALE: 1:1		
MATERIAL: ASTM A36 STEEL		SHEET: 173 REVISION: A		



SECTION A-A
SCALE 1 : 2


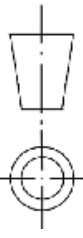
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Side Holder RS			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M R H	20-11-2025	DWG NO.: ASS_SHR_174_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Machining			
THIRD ANGLE PROJECTION:				WEIGHT: 552.10 grams			
				SCALE: 1:2			
				MATERIAL: ASTM A36 STEEL			
				REVISION: A			

N.B: All the other dimensions are as same as in Sheet 174

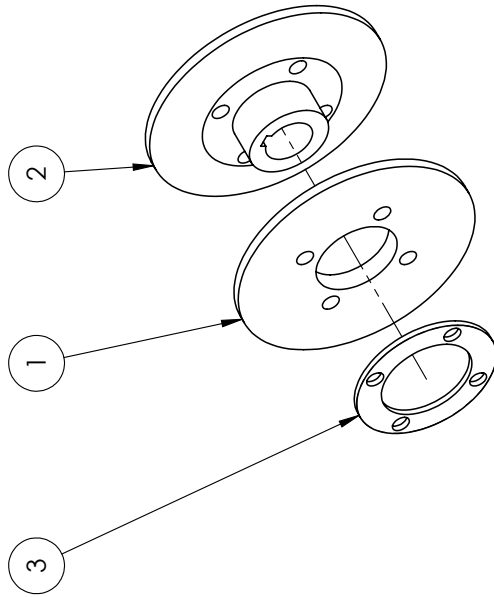
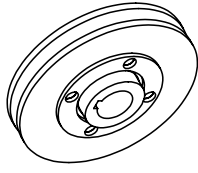



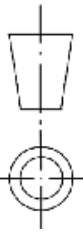
$\phi 12$
 THREAD: M12X1.5
 LENGTH: 53mm

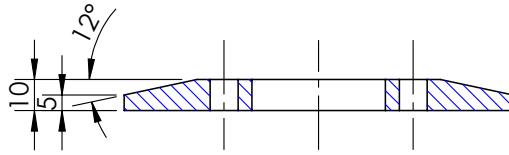
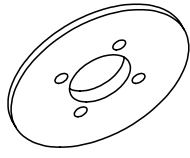
SECTION A-A
SCALE 1 : 2

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 ; ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024			
DETAILS DRAWN CHK'D APP'VD	NAME ENGR. NURUS SALAMAT SIYAM DR. MD. MOSHARRAF HOSSAIN DR. AKM SAIFUL ISLAM	SIGNATURE N S S M H H A S I	DATE 2-10-2025 2-10-2025 2-10-2025	TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: Side Holder LS DWG NO.: ASS_SHL_175_A4 MANUFACTURING METHOD: Machining WEIGHT: 592.62 grams SCALE: 1:2				A4 ASTM A36 STEEL REVISION: A	
THIRD ANGLE PROJECTION: 									

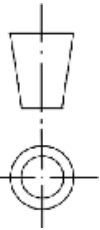
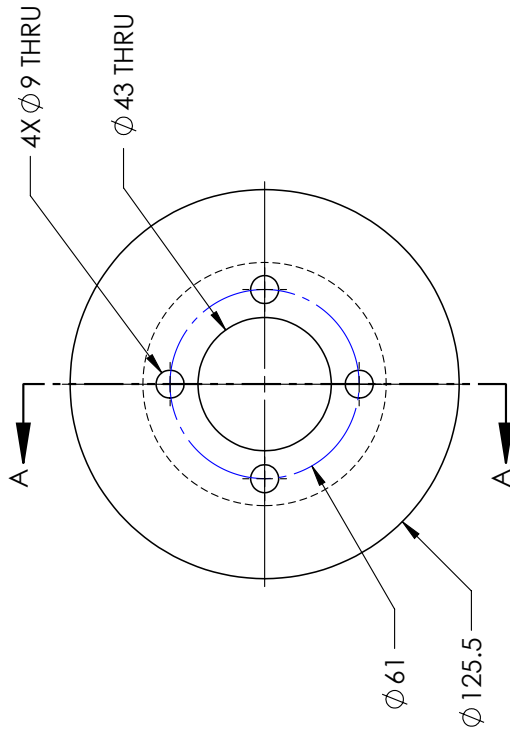
ITEM NO.	PART NAME	QTY.	PART NUMBER	MATERIAL
1	Support Rod Pulley Part 1	1	ASS_SRPP1_177_A4	GRAY CAST IRON
2	Support Rod Pulley Part 2	1	ASS_SRPP2_178_A4	GRAY CAST IRON
3	Support Rod Pulley Part 3	1	ASS_SRPP3_179_A4	GRAY CAST IRON




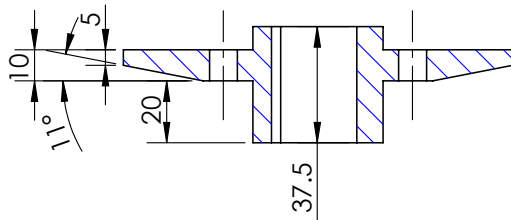
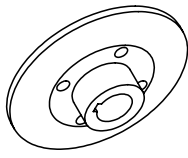
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS		NAME	SIGNATURE	DATE	TITLE: BRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024)		
DRAWN	ENGR. NURUS SALAMAT SIYAM		N S S	2-10-2025	DRG. NAME: Support Rod Pulley Comb.		
CHK'D	DR. MD. MOSHARRAF HOSSAIN		M H H	2-10-2025	DWG NO: ASS_SRPC_176_A4		
APP'VD	DR. AKM SAIFUL ISLAM		A S I	2-10-2025	MANUFACTURING METHOD: Casting		
THIRD ANGLE PROJECTION:							
WEIGHT: 1.52 kg		MATERIAL:		SCALE: 1:3		REVISION: A	



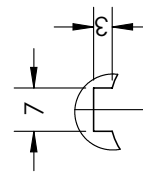
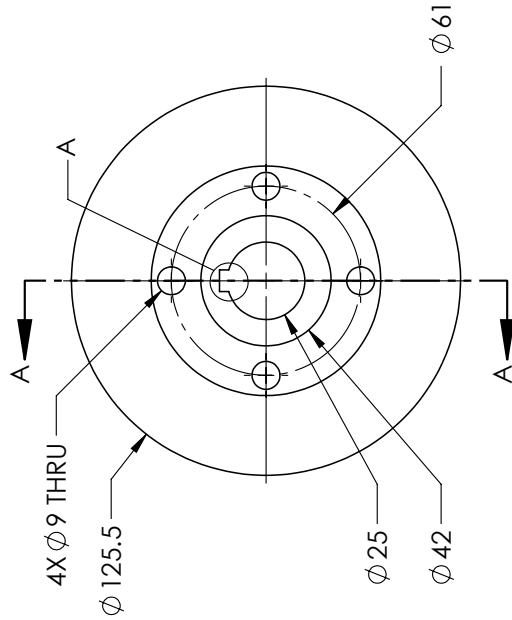
SECTION A-A
SCALE 1 : 2




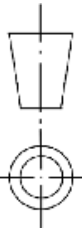
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME SIGNATURE DATE DRAWN ENGR. NURUS SALAMAT SIYAM N S S 20-11-2025 CHK'D DR. MD. MOSHARRAF HOSSAIN M H H 20-11-2025 APP'VD DR. AKM SAIFUL ISLAM A S I 20-11-2025		TITLE: BIRRI WHOLE FEED COMBINE HARVESTER (BRRI WCH2024) DRG. NAME: Support Rod Pulley Part 1 DWG NO.: ASS_SRPP1_177_A4		MANUFACTURING METHOD: Casting WEIGHT: 621.70 grams MATERIAL: GRAY CAST IRON SCALE: 1:2 SHEET: 177 REVISION: A			

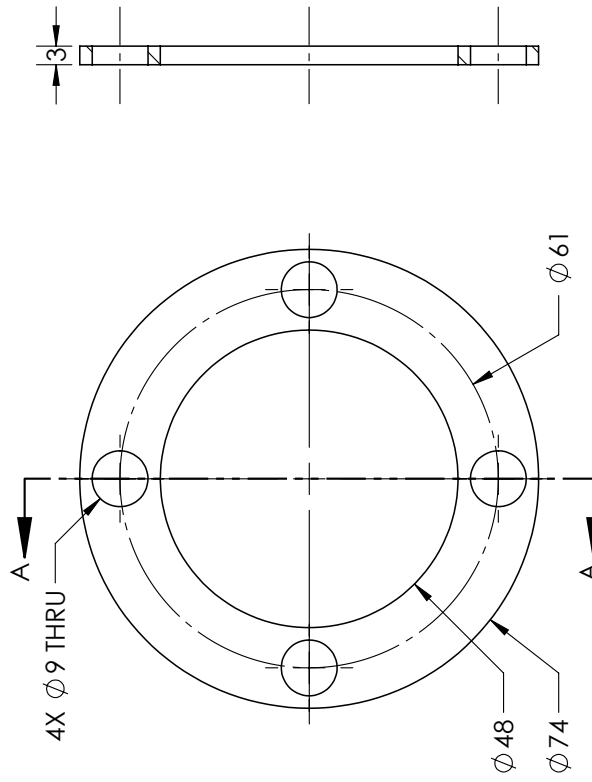
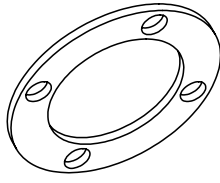


SECTION A-A
SCALE 1:2


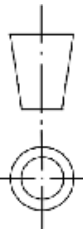


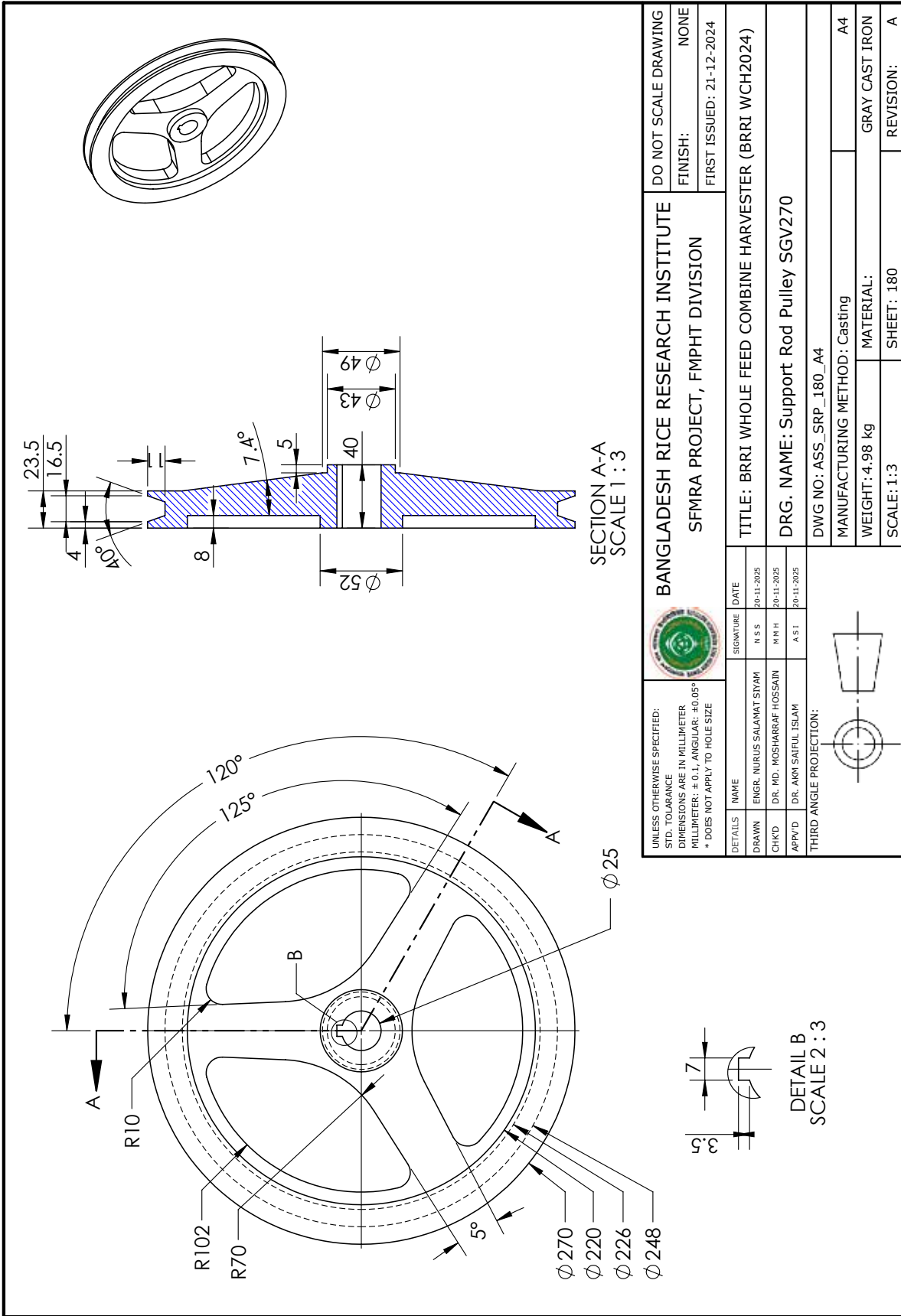
DETAIL A
SCALE 1:1

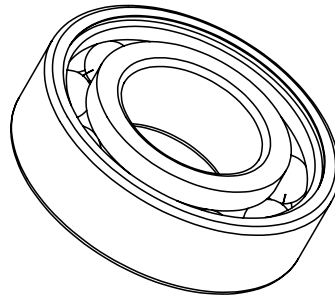
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BIRRI WHOLE FEED COMBINE HARVESTER (BIRRI WCH2024)			
DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	DRG. NAME: Support Rod Pulley Part 2			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	20-11-2025	DWG NO.: ASS_SRPP2_178_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	MANUFACTURING METHOD: Casting			
THIRD ANGLE PROJECTION:				WEIGHT: 851.47 grams			
				MATERIAL: GRAY CAST IRON			
				SCALE: 1:2			
				SHEET: 178			
				REVISION: A			




SECTION A-A
SCALE 1 : 1

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1; ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		DETAILS	SIGNATURE	DATE	DO NOT SCALE DRAWING	
		DRAWN	ENGR. NURUS SALAMAT SIYAM	N S S	20-11-2025	FINISH: NONE
		CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	20-11-2025	FIRST ISSUED: 21-12-2024
		APP'VD	DR. AKM SAIFUL ISLAM	A S I	20-11-2025	
THIRD ANGLE PROJECTION:				TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024)		
				DRG. NAME: Support Rod Pulley Part 3		
				DWG NO.: ASS_SRPP3_179_A4		
				MANUFACTURING METHOD: Casting		
				WEIGHT: 48.32 grams		
				MATERIAL: GRAY CAST IRON		
				SCALE: 1:1		
				SHEET: 179		
				REVISION: A		





SRR Bearing
 Bearing No - 6305 Dimension
 OD62 X ID25 X W17

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 21-12-2024	
DETAILS NAME SIGNATURE DATE DRAWN ENGR. NURUS SALAMAT SIYAM N S S 2-10-2025 CHK'D DR. MD. MOSHARRAF HOSSAIN M H H 2-10-2025 APP'VD DR. AKM SAIFUL ISLAM A S I 2-10-2025		TITLE: BRRRI WHOLE FEED COMBINE HARVESTER (BRRRI WCH2024) DRG. NAME: SRR Bearing DWG NO: ASS_SRRB_181_A4		MANUFACTURING METHOD: Machining WEIGHT: 60 grams SCALE: 1:1		MATERIAL: BEARING STEEL SHEET: 181 REVISION: A	
THIRD ANGLE PROJECTION:		