



Bangladesh Rice Research Institute

BRRI Auto Seed Sower: An Engineering Design Perspective

AKM Saiful Islam

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Preface

The design and development of farm machinery plays a crucial role in advancing agricultural practices and enhancing productivity. The BRRI auto seed sower machine stands as a remarkable example of such innovation, engineered to transform rice seedling preparation by integrating precision and automation into the sowing process. "BRRI Auto Seed Sower: An Engineering Design Perspective" serves as a comprehensive guide to understanding the technical intricacies and design principles behind the machine. The purpose of this compilation is to bridge the gap between theoretical knowledge and practical application, offering readers detailed insights into the machine's design, functionality, and operational parameters. Through detailed explanations and technical insights, readers will gain a thorough understanding of how each element contributes to the machine's overall functionality and efficiency. It delves into the engineering aspects of the machine, including its components, mechanisms, and the innovative technologies that contribute to its efficiency and effectiveness. It is my hope that this book will contribute to the continued evolution and improvement of agricultural machinery.



Director General
Bangladesh Rice Research Institute

Foreword

The BRRRI auto seed sower machine integrates cutting-edge technology with practical agricultural needs. The book “BRRRI Auto Seed Sower: An Engineering Design Perspective” compiled by Dr. AKM Saiful Islam, offers an invaluable exploration of the technical aspects and design intricacies of this machine. It provides a detailed and comprehensive analysis of the machine's design, elucidating the principles and innovations that underpin its functionality. The detailed technical descriptions and analyses presented in this book will aid further development of the BRRRI auto seed sower machine. Dr. Islam’s work in compiling this book is a significant contribution to the field, offering both inspiration and practical knowledge to those involved in agricultural engineering and rice cultivation. I am confident that it will serve as an essential resource for engineers, researchers, and practitioners in the field of agricultural machinery. I extend my sincere congratulations to Dr. Islam for his dedication and expertise.

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

(Dr. Mohammad Khalequzzaman)



Chief Scientific Officer
Farm Machinery and Postharvest Technology Division
BRRRI, 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, BRRRI weeder, rice-wheat reaper, BRRRI open orum thresher, BRRRI rice-wheat thresher, BRRRI whole feed combine harvester. He is involved in the invention and development of mechanized seedling raising techniques, BRRRI seed sower, BRRRI auto seed sower, BRRRI rice transplanter, BRRRI semi automatic rice transplanter, BRRRI solar light trap, BRRRI urea super granular fertilizer, BRRRI power weeder, BRRRI rice-wheat reaper, BRRRI rice-wheat thresher, BRRRI panicle thresher, BRRRI whole feed combine harvester, BRRRI head feed combine harvester, BRRRI straw rope maker, BRRRI air blow rice mill, BRRRI compact rice mill, BRRRI mini rice huller and BRRRI 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 project

The project "Strengthening Farm Machinery Research Activity for Mechanized Rice Cultivation" was approved for implementation from July 2019 to June 2025 at an estimated cost of Tk 4400 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 nine 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 stakeholder through 324 adaptive trials; (c) Providing hands-on training to 6480 machine operators, farmers, mechanics and service providers and 200 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 324 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.

What is BRRI auto seed sower machine

The BRRI auto seed sower machine for sowing rice seeds in trays is a specialized agricultural machine developed by the Bangladesh Rice Research Institute (BRRI) to automate the process of sowing rice seeds into seedling trays. This machine is designed specifically to improve the efficiency and accuracy of the seedling preparation stage in rice cultivation, where rice seeds are placed in trays to grow into seedlings before being transplanted into paddy fields. The machine is ideal for commercial nurseries that produce large volumes of rice seedlings for transplanting. It supports mechanized farming operations by providing uniform seedlings that are essential for mechanical transplanting systems.

Key Features

1. Precision seed placement

- o The machine ensures that rice seeds are evenly and accurately placed in seedling trays, which is crucial for uniform germination and healthy seedling growth.

2. Automated seed sowing

- o The machine automates the entire process of seeding, reducing the need for manual labor and ensuring uniform seed distribution across all trays.

3. Adjustable seeding rate

- o Operators can adjust the seeding rate according to the specific requirements of different rice varieties, allowing for customization of seed density.

4. High capacity

- o Designed for large-scale operations, the machine can process multiple trays quickly, significantly increasing the efficiency of nursery preparation.

5. Durable construction

- o Made from robust materials to withstand the rigors of continuous use in agricultural environments, the machine is built for durability and long-term reliability.

Purpose of developing BRRI auto seed sower machine

The purpose of developing BRRI auto seed sower machine is to address several key challenges in rice cultivation and improve the efficiency, consistency, and scalability of the seedling preparation process. Here are the primary purposes:

- **Labor reduction:** Traditionally, preparing rice seedlings for mechanical transplanting is labor-intensive, involving soil preparation, manual seeding and watering. The machine automates these tasks, significantly reducing the need for human labor.
- **Time savings:** The machine speeds up the seedling preparation process, allowing farmers to produce large quantities of seedlings in a shorter time frame, which is particularly important in large-scale farming operations.
- **Improving uniformity:** The machine ensures uniform seed placement. This leads to uniform seedling growth, which is crucial for successful transplanting.
- **Reducing human error:** Manual seeding can lead to uneven seed distribution. The machine minimizes this error by automating seeding, watering and soil distribution process.
- **Scalability:** The machine can handle the large volumes of seedlings needed for transplanting. This scalability supports large farms and commercial nurseries.
- **Cost savings:** The machine reduces operational costs associated with labor and resource management, making rice production more profitable.

Characterisitics

The key characteristic of the BRRI auto seed sower machine is given below:

1. Precision Seding

- **Accurate seed placement:** The machine ensures the uniform placement of seed in the seedling tray.
- **Adjustable seeding rate:** Operators can adjust the seeding rate to accommodate different rice varieties or desired seedling densities.

2. Automated soil handling

- **Soil filling:** The machine can automatically fill trays with soil or a growing medium, ensuring optimal amount of substrate for seed germination.
- **Soil leveling:** After filling, the machine levels the soil to create a uniform surface, which is crucial for even seed placement.

3. Integrated watering system

- **Controlled water supply:** The machine includes a watering system that delivers the right amount of water to each tray, promoting consistent moisture levels for seed germination and seedling growth.

4. High throughput and efficiency

- **Mass production capability:** The machine is capable of preparing a large number of trays in a short time, making it suitable for commercial-scale operations.
- **Time-saving:** The machine significantly reduces the time required compared to manual methods.

5. Compact design

- **Space-efficient:** The compact design ensures that the machine can operate in limited spaces, making it suitable for a variety of nursery setups.

Technical Specification

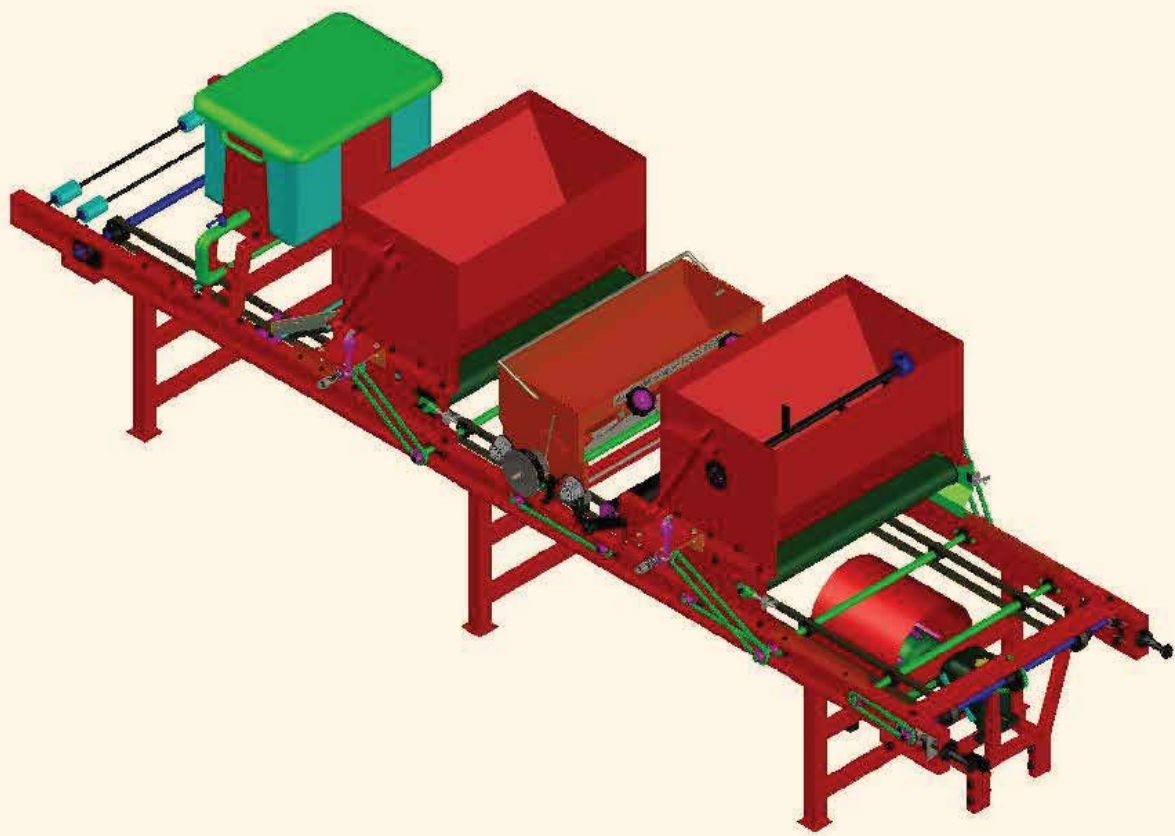
Name: BRRRI Auto seed sower

Model: BRRRI ASSM2024

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

1. Machine (overall) l= 3138 mm, w=888 mm, h=965 mm. Made of (38x38x78) mm C-channel.
2. Motor is HP=0.5, RPM=1400, ratio=1:20, single phase 220V.
3. Gear box l=145mm, w=130mm, h=190mm.
4. Motor case l=420mm, w=310mm, h=245mm.
5. Base frame l=3048mm, w=38mm, h=78mm.
6. Base stand l=610mm, w=130, h=383mm. Made of (38x38x2) box frame.
7. Motor stand l=457mm, w=200mm, h=238mm.
8. BRRRI Manual seed sower machine. Seed capacity-10kg.
9. Main shaft l=697mm, ϕ =25mm.
10. Main power shaft opposite shaft block bearing UCF204, Bearing no.-6204.
11. Sub power shaft bearing cover out ϕ 41.3mm, bore ϕ =35mm, Bearing no.-6202.
12. Main power shaft bearing cover out ϕ 59.3mm, bore ϕ =52mm, Bearing no.-6304.
13. Opposite power shaft l=690mm, ϕ =25mm.
14. Power shaft V pulley out ϕ =63mm, bore ϕ =20mm.
15. Main power shaft sprocket1- out ϕ 90mm, bore ϕ =25mm, teeth no-28.
16. Main power shaft sprocket chain T35 l=710mm.
17. Sub power shaft l=770mm, ϕ =20mm.
18. Main power shaft sprocket2- out ϕ =42mm, bore ϕ =15mm, teeth no-12.
19. Main power to sub-power shaft sprocket chain 2 T35 l=490mm.
20. Sub power shaft V pulley out ϕ =42mm, bore ϕ =15mm, Material- Nylon.
21. Main power shaft sprocket1- out ϕ =90mm, bore ϕ =25mm, teeth no-28.
22. Sub power shaft sprocket1- out ϕ =42mm, bore ϕ =15mm, teeth no-12.
23. Idle shaft l=630mm, ϕ =10mm.
24. Idle shaft roller out ϕ =42mm, bore ϕ =10mm.
25. Conveyor V belt 5,588 mm.
26. Gear box shaft sprocket out ϕ =64.5mm, bore ϕ =22mm.
27. Motor coupling flange1- l=43mm, out ϕ =30mm, bore ϕ =20mm.
28. Motor coupling flange2- l=35mm, out ϕ =26mm, bore ϕ =15mm.
29. Bed soil hopper base l=485mm, w=150mm, t=2mm.
30. Soil conveyor roller bearing cover out ϕ =72mm, bore ϕ =28mm.
31. Soil conveyor roller bearing no.=6002.
32. Top soil hopper base l=380mm, w=150mm, t=2mm.
33. Soil conveyor roller l=637mm, out ϕ =67mm, bore ϕ =12mm.
34. Bed soil hopper l=620mm, w=382mm, h=350mm

35. Bed soil hopper extra part l=812mm, w=590mm, h=210mm.
36. Agitator shaft l= 730mm, ϕ =20mm.
37. Agitator shaft bearing no.-6002.
38. Agitator power supply sprocket out ϕ =60mm, bore ϕ =15mm, teeth no.-18.
39. Agitator power supply chain l=500mm, size-T35.
40. Soil conveyor flat belt l=635mm, w=310mm, t=3mm.
41. Top soil hopper l=620mm, w=382mm, h=350mm.
42. Soil control brass frame l=602mm, w=115mm, h=60mm.
43. Tray cleaner frame l=750mm, w=40mm.
44. Water tank l=545mm, w=400mm, h=310mm, capacity 44 liter (Made of plastic).
45. Engage/disengage coupling-round coupling l=40mm, ϕ =41mm, bore ϕ =12mm. Sprocket coupling l=21mm, ϕ =42mm, bore ϕ =12mm, teeth no.-12.

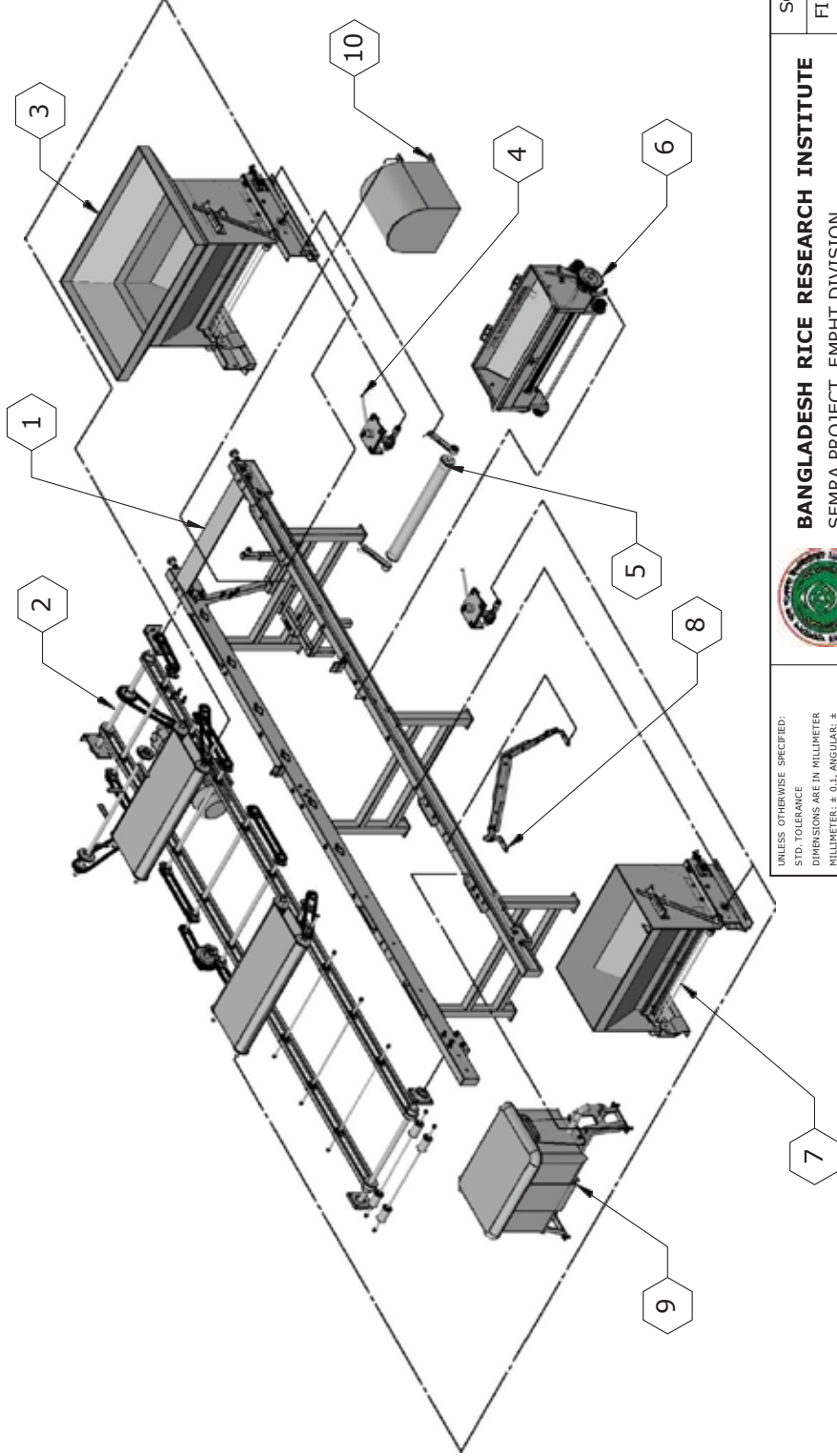



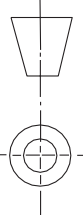
INDEX

SUB-ASSEMBLY NO.	DESCRIPTION	SHEET NO
	SUB-ASSEMBLY	1-22
01	MAIN BASE SUB-ASSEMBLY	23-37
02	POWER TRANSMISSION SUB-ASSEMBLY	38-93
03	BED SOIL HOPPER SUB-ASSEMBLY	94-120
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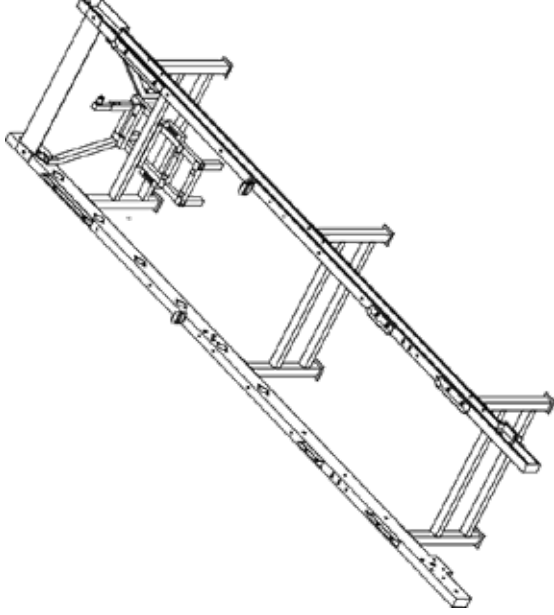
EXPLODED VIEW: BRRI AUTO SEED SOWER


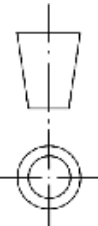


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CHK'D	DR. MD. MOSHARRAF HOSSAIN	M I M H	25FEB,2024	DWG NO: ASSM_EXD_002_A4			
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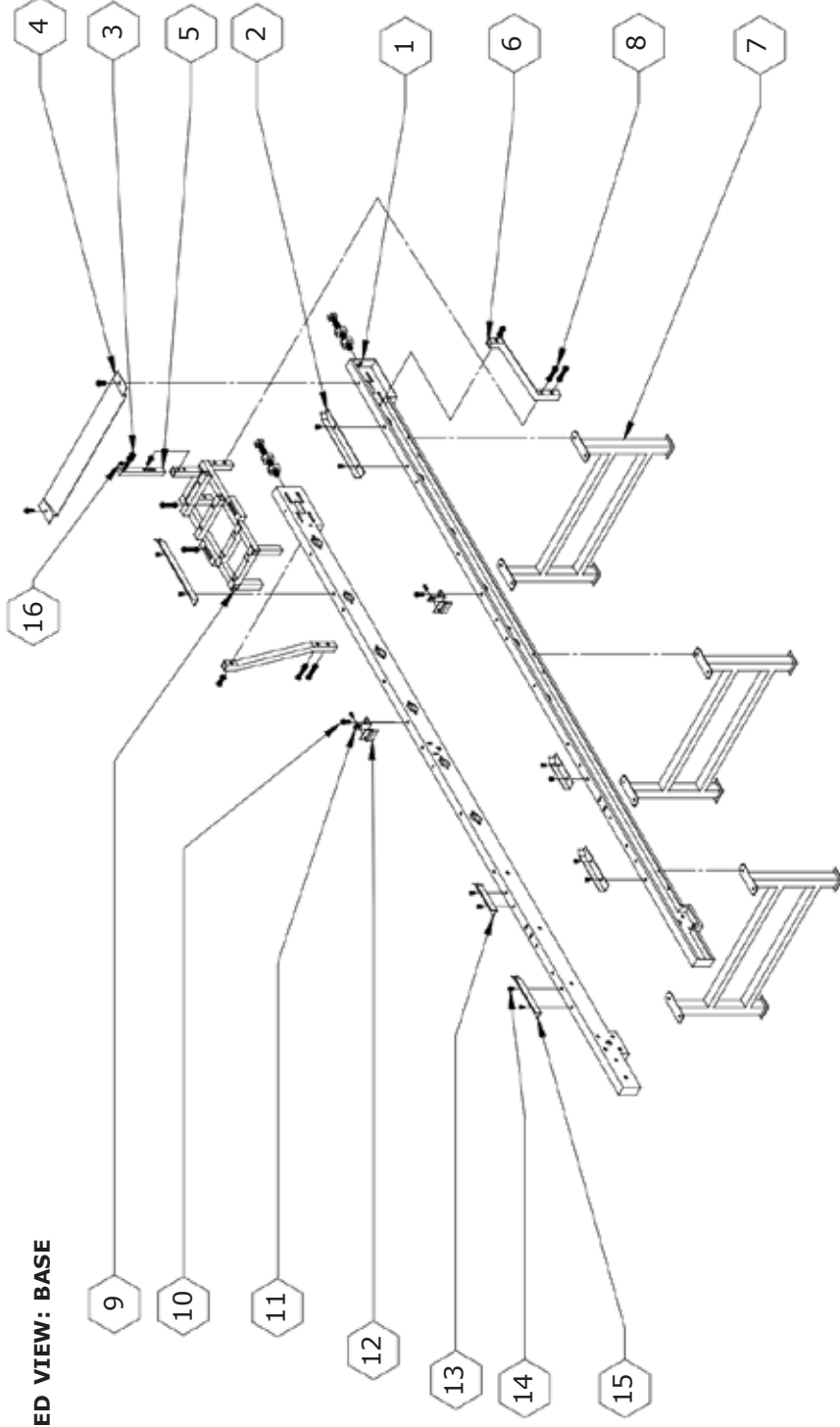
BILL OF METARIAL : BASE



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3	CHAIN TESTONER BUSH	ASSM_CTB_025_A4	PLAIN CARBON STEEL	1
4	TREY SLOPE FALLING GUIDER	ASSM_TSG_026_A4	PLAIN CARBON STEEL	1
5	CHAIN TENSIONER BAR	ASSM_CTB_027_A4	PLAIN CARBON STEEL	1
6	MOTOR VERTICAL BASE FRAME	ASSM_MVBF_028_A4	PLAIN CARBON STEEL	2
7	BASEMENT STAND	ASSM_BS_029_A4	PLAIN CARBON STEEL	3
8	MOTOR VERTICAL BASE FRAME BOLT	ASSM_MVBF_030_A4	PLAIN CARBON STEEL	6
9	MOTOR BASE	ASSM_MB_031_A4	PLAIN CARBON STEEL	1
10	MINI BRUSH CLAMP BOLT	ASSM_MBCB_032_A4	PLAIN CARBON STEEL	2
11	MINI BRUSH CLAMP	ASSM_MBC_033_A4	PLAIN CARBON STEEL	2
12	MINI BRUSH	ASSM_MB_034_A4	ALUMANIUM ALLOY	2
13	TRAY GUIDER-2	ASSM_TG2_035_A4	PLAIN CARBON STEEL	2
14	TRAY GUIDER BOLT	ASSM_TGB_036_A4	PLAIN CARBON STEEL	4
15	TRAY GUIDER-3	ASSM_TG3_037_A4	PLAIN CARBON STEEL	2



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CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB, 2024	
APPVD	DR. AKM SAJFUL ISLAM	A S I	3/FEB, 2024	
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EXPLODED VIEW: BASE

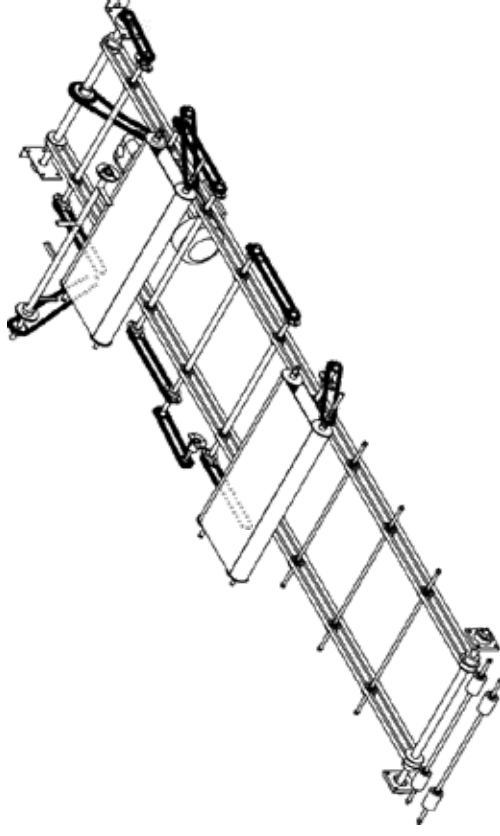


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NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

BILL OF METARIAL : POWER TRANSMISSION

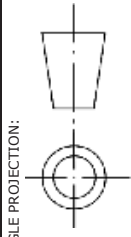
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3	MAIN TO SUB POWER SHAFT CHAIN	ASSM_MTPSPC_040_A4	AISI 1010 STEEL	1
4	GEARBOX TO MAIN POWER SHAFT CHAIN	ASSM_GTMPSC_041_A4	AISI 1010 STEEL	1
5	SPROCKET ALLEN KEY SCREW	ASSM_SAKS_042_A4	AISI 1010 STEEL	4
6	PULLY LOCK SCREW	ASSM_PLS_043_A4	AISI 1010 STEEL	4
7	BEARING COVER	ASSM_BC_044_A4	PLAIN CARBON STEEL	2
8	MAIN POWER SHAFT BEARING	ASSM_MPSB_045_A4	STAINLESS STEEL	2
9	MAIN POWER SHAFT BEARING 6304CIRCLIP LOCK	ASSM_CL_046_A4	AISI 1010 STEEL	2
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11	AJTATOR SPROCKET	ASSM_ASPKT_048_A4	CAST IRON	1
12	AJTATOR SHAFT	ASSM_AS_049_A4	PLAIN CARBON STEEL	1
13	AJTATOR CIRCLIP LOCK	ASSM_AC_051_A4	AISI 1010 STEEL	2
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15	SUB POWER TO SUB POWER SHAFT CHAIN	ASSM_SPPSC_053_A4	AISI 1010 STEEL	5
16	SOIL CONVEYOR FLAT BELT	ASSM_SCFB_054_A4	RUBBER	2
17	POWER TRANSMISSION V-BELT	ASSM_PTVB_055_A4	RUBBER	2
18	AJTATOR BEARING HOUSE	ASSM_ABH_056_A4	PLAIN CARBON STEEL	2
19	AJTATOR BEARING 6200	ASSM_AB_057_A4	STAINLESS STEEL	2
20	AJTATOR BEARING CIRCLIP LOCK	ASSM_ABCL_058_A4	AISI 1010 STEEL	2



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 SFMRA PROJECT, FMPHT DIVISION

SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB/2024
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB/2024
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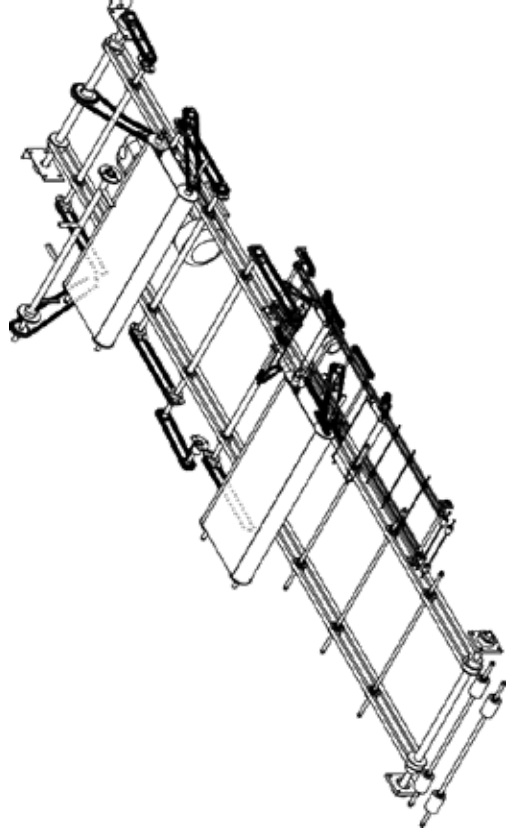



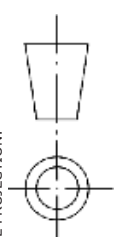
THIRD ANGLE PROJECTION:

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

BILL OF METARIAL : POWER TRANSMISSION

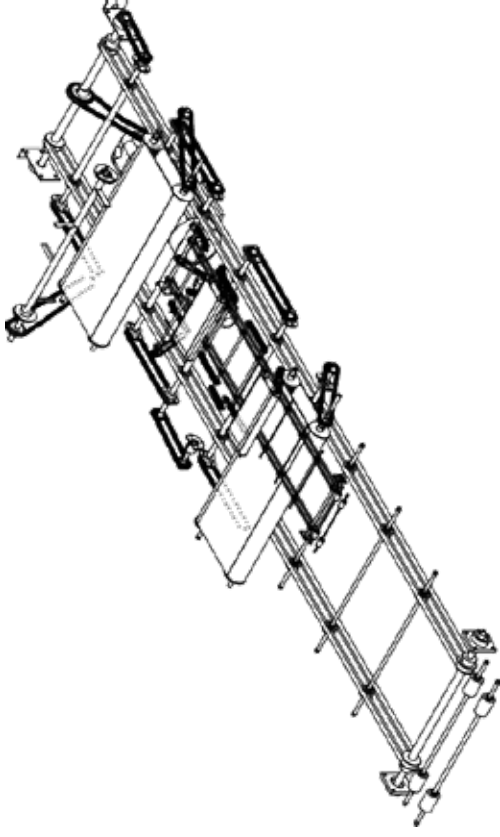
ITEM NO	DESCRIPTION	PART NO	METARIAL	QNY
21	AJTATOR COVER	ASSM_AC_059_A4	PLAIN CARBON STEEL	2
22	SUB POWER TO CONVEYOR ROLLERSHAFT CHAIN	ASSM_SCRSC_060_A4	AISI 1010 STEEL	2
23	PULLY LOCK HEXAGONAL SCREW	ASSM_PLHS_061_A4	AISI 1010 STEEL	2
24	MOTOR TO GEAR BOX COUPLINGFLANGE 1	ASSM_MGCF_062_A4	PLAIN CARBON STEEL	1
25	MOTOR TO GEAR BOX COUPLINGFLANGE 2	ASSM_MGCF_063_A4	PLAIN CARBON STEEL	1
26	ROLLER SUPPORT BUSH	ASSM_RSB_064_A4	PLAIN CARBON STEEL	8
27	CIRCLIP LOCK FOR MANUAL SEED SOWER BEARING	ASSM_BCL_065_A4	AISI 1010 STEEL	1
28	BEARING FOR MANUAL SEED SOWER	ASSM_BMSS_066_A4	STAINLESS STEEL	1
29	OUT CIRCLIP LOCK FOR MSS BEARING	ASSM_OCMSS_067_A4	AISI 1010 STEEL	1
30	MANUAL SEED SOWER BEARING SHAFT	ASSM_MSSBS_068_A4	PLAIN CARBON STEEL	1
31	BEARING HOUSE FOR MANUAL SEEDSOWER	ASSM_BHMSS_069_A4	PLAIN CARBON STEEL	1
32	CONVEYOR ROLLER HOUSE	ASSM_CRH_070_A4	ALLOY STEEL	4
33	ROLLER ALLEN KEY LOCK SCREW	ASSM_RALS_071_A4	AISI 1010 STEEL	16
34	ROLLER COLLER BUSH	ASSM_RCB_072_A4	PLAIN CARBON STEEL	8
35	SUB POWER SHAFT PULLY	ASSM_SPS_073_A4	NYLON	12
36	SUB POWER SHAFT CIRCLIP LOCK	ASSM_SPSC_074_A4	AISI 1010 STEEL	12
37	SUB POWER SHAFT BEARING COVER	ASSM_SPSBC_075_A4	PLAIN CARBON STEEL	12
38	SUB POWER SHAFT BEARING 6202	ASSM_SPSB_076_A4	STAINLESS STEEL	12
39	GEAR BOX	ASSM_GB_077_A4	CASR IRON	1
40	MOTOR	ASSM_MTR_078_A4	---	1


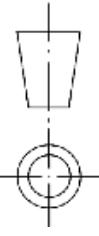


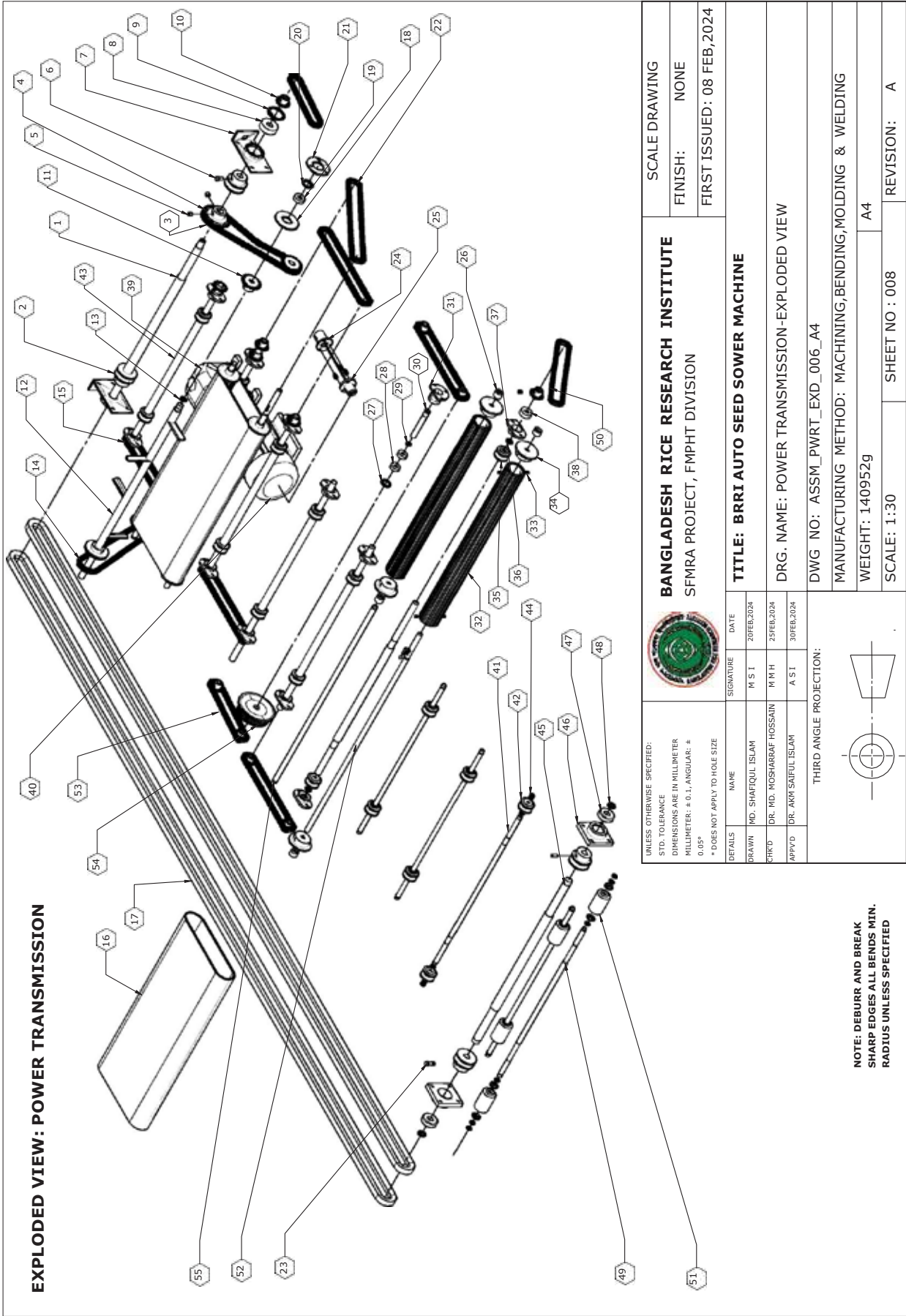
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING
		TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		DATE 28/FEB/2024	FIRST ISSUED: 8 FEB 2024	
DRAWN MD. SHAFIQUL ISLAM	NAME MD. SHAFIQUL ISLAM	SIGNATURE M S I	DRG. NAME: POWER TRANSMISSION SUB-ASSEMBLY	
CHKD DR. MD. MOSHARRAF HOSSAIN	NAME DR. AKM SAJFUL ISLAM	SIGNATURE A S I	DWG NO: ASSM_PTSA_005_A4	
APVD DR. AKM SAJFUL ISLAM	THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED			WEIGHT: -----	REVISION: A
SCALE: -----			SHEET 006	A

BILL OF METARIAL : POWER TRANSMISSION

ITEM NO	DESCRIPTION	PART NO	METARIAL	QNY
41	IDLE SHAFT	ASSM_IDST_079_A4	PLAIN CARBON STEEL	3
42	IDLE SHAFT PULLY	ASSM_IDSP_080_A4	NYLON	6
43	SUB POWER SHAFT	ASSM_SPS_081_A4	PLAIN CARBON STEEL	6
44	IDLE SHAFT CIRCLIP LOCK	ASSM_ISCL_082_A4	AISI 1010 STEEL	6
45	OPPOSITE POWER SHAFT	ASSM_OPS_083_A4	PLAIN CARBON STEEL	1
46	USF204 BEARING COVER	ASSM_UCF204_084_A4	CAST IRON	2
47	OPPOSITE POWER SHAFT BEARING6204	ASSM_OPSB_085_A4	STAINLESS STEEL	2
48	OPPOSITE POWER SHAFT CIRCLIP LOCK	ASSM_OPSC_086_A4	AISI 1010 STEEL	2
49	IDLE SHAFT-2	ASSM_IS2_087_A4	PLAIN CARBON STEEL	2
50	SUB POWER TO CONVEYOR ROLLER SHAFT CHAIN	ASSM_SPCRSC_088_A4	AISI 1010 STEEL	2
51	IDLE SHAFT ROLLER	ASSM_ISR_089_A4	NYLON	4
52	CONVEYOR ROLLER SHAFT	ASSM_CRS_090_A4	PLAIN CARBON STEEL	2
53	SUB POWER TO SEED SOWER CHAIN	ASSM_SPSSC_091_A4	AISI 1010 STEEL	1
54	SEED SOWER DRIVE WHEEL	ASSM_SSDW_092_A4	PLASTIC	1
55	CONVEYOR ROLLER SHAFT 2	ASSM_CRS2_093_A4	PLAIN CARBON STEEL	2


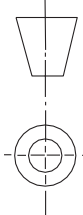


 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION	SCALE DRAWING
	FINISH: NONE FIRST ISSUED: 8 FEB 2024
TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: POWER TRANSMISSION SUB-ASSEMBLY DWG NO: ASSM_PTSA_005_A4	UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE
DR. MD. MOSHARRAF HOSSAIN DR. AKM SAJFUL ISLAM	SIGNATURE M S I M M H A S I
DATE 2/FEB/2024 28/FEB/2024 3/FEB/2024	THIRD ANGLE PROJECTION: 
MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING WEIGHT: ----- SCALE:-----	SHEET 007 REVISION: A
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED	



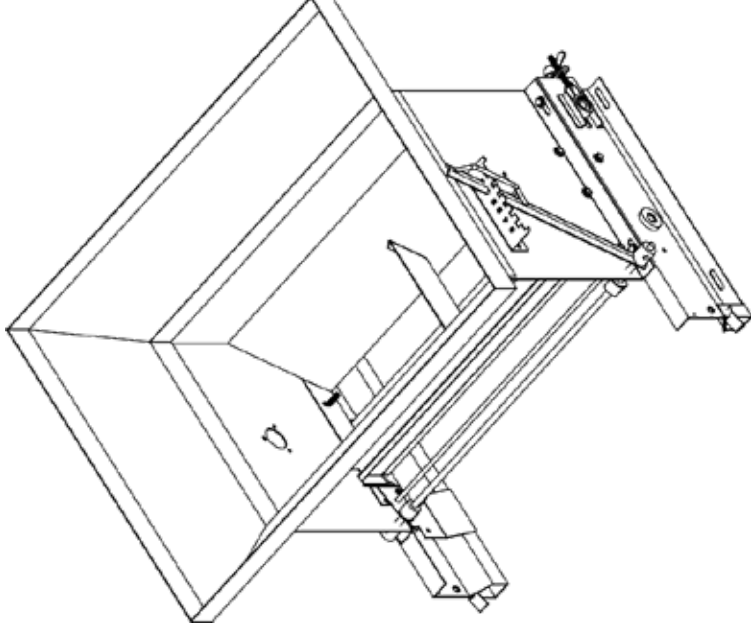
EXPLODED VIEW: POWER TRANSMISSION

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED


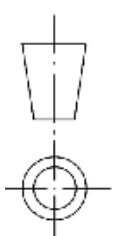
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETERS: # 0.1, ANGULAR: # 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING FINISH: NONE FIRST ISSUED: 08 FEB, 2024	
DETAILS		NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		
DR/WH	MD. SHAFIQUL ISLAM	M S I		20/FEB/2024	DRG. NAME: POWER TRANSMISSION-EXPLODED VIEW DWG NO: ASSM_PWRT_EXD_006_A4		
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H		25/FEB/2024	MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING WEIGHT: 140952g SCALE: 1:30		
APP'VD	DR. AKM SAIFUL ISLAM	A S I		30/FEB/2024	SHEET NO : 008 REVISION: A		
THIRD ANGLE PROJECTION:							

BILL OF METARIAL : BED SOIL HOPPER

ITEM NO	DESCRIPTION	PART NO	METARIAL	QTY
1	BED SOIL HOPPER	ASSM_BSH_094_A4	PLAIN CARBON STEEL	1
2	SOIL CONTROL LEVER CLAMP	ASSM_SCLC_097_A4	PLAIN CARBON STEEL	2
3	BED SOIL HOPPER SCREW	ASSM_BSHS_098_A4	PLAIN CARBON STEEL	8
4	TENTIONER WING NUT	ASSM_TWN_099_A4	PLAIN CARBON STEEL	4
5	TENSIONER WING NUT SCREW	ASSM_TWNS_100_A4	PLAIN CARBON STEEL	4
6	ROLLER TENSION BEARING HOUSE	ASSM_RTBH_101_A4	CAST IRON	4
7	TENSIONER BEARING 6001	ASSM_TB_102_A4	STAINLESS STEEL	4
8	BEARING 6001 CIRCLIP LOCK	ASSM_SCL_103_A4	PLAIN CARBON STEEL	4
9	SOIL CONTROL LEVER	ASSM_SCL_104_A4	PLAIN CARBON STEEL	2
10	HOPPER SIDE SUPPORT PLATE	ASSM_HSSP_105_A4	PLAIN CARBON STEEL	4
11	BED SOIL HOPPER BASE	ASSM_BSHB_106_A4	PLAIN CARBON STEEL	2
12	SOIL EQUILING FALLING GUIDER BUSH	ASSM_SGB_108_A4	PLAIN CARBON STEEL	4
13	SOIL EQUALLY FALLING GUIDER	ASSM_SEFG_109_A4	PLAIN CARBON STEEL	4
14	ROLLER BEARING CIRCLIP LOCK	ASSM_RBCL_110_A4	AISI 1010 STEEL	4
15	ROLLER BEARING 6001	ASSM_RB_111_A4	STAINLESS STEEL	4
16	CONVEYOR ROLLER BEARING COVER	ASSM_CRBC_112_A4	PLAIN CARBON STEEL	4
17	SOIL CONTROL FRAME SHAFT	ASSM_SCFS_113_A4	PLAIN CARBON STEEL	2
18	ROLLER BELT SUPPORT SHAFT	ASSM_RBS_114_A4	PLAIN CARBON STEEL	2
19	SOIL CONTROL FRAME	ASSM_SCF_115_A4	PLAIN CARBON STEEL	1
20	SOIL CONTROL FRAME LOCK SCREW	ASSM_SCFLS_117_A4	AISI 1010 STEEL	4
21	SOIL CONTROL FRAME LOCK BUSH	ASSM_SCFLB_118_A4	PLAIN CARBON STEEL	2
22	HOPPER BASE SUPPORT PLATE	ASSM_HBSP_119_A4	PLAIN CARBON STEEL	2
23	BED SOIL HOPPER EXTRA PART	ASSM_BSHEP_120_A4	PLAIN CARBON STEEL	1

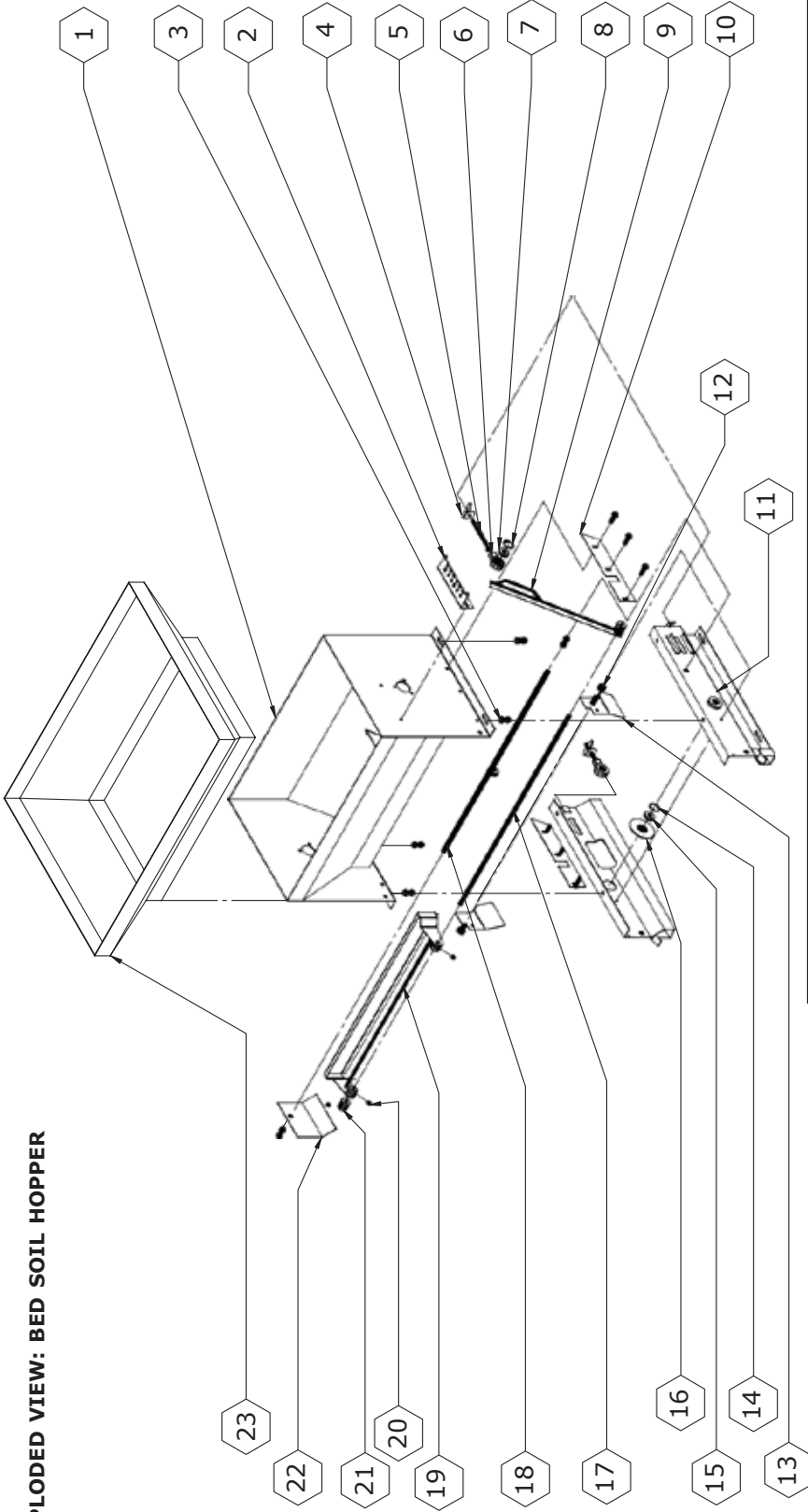



STILMAR PARTS TOTAL QUANTITY SHAWN HERE BETWEEN BED & TOP SOIL HOPPER.

		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		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 AUTO SEED SOWER MACHINE DRG. NAME: BED SOIL HOPPER SUB-ASSEMBLY DWG NO: ASSM_BSHSA_09_A4	FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS DRAWN: MD. SHAFIQUL ISLAM CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'VD: DR. AKM SAIFUL ISLAM	NAME MD. SHAFIQUL ISLAM DR. MD. MOSHARRAF HOSSAIN DR. AKM SAIFUL ISLAM	SIGNATURE M S I M M H A S I	DATE 20/FEB/2024 20/FEB/2024 30/FEB/2024	
THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING WEIGHT: ----- SCALE: ---- SHEET 009 REVISION: A		

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

EXPLODED VIEW: BED SOIL HOPPER

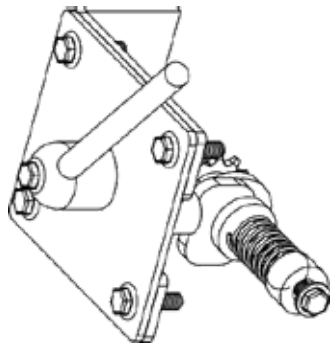


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETERS: # 0.1, ANGULAR: # 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING
DETAILS		NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM		M S I	20/FEB,2024
CHECKD	DR. MD. HOSSAINARAF HOSSAIN		M M H	25/FEB,2024
APPROVD	DR. AKM SAIFUL ISLAM		A S I	30/FEB,2024
THIRD ANGLE PROJECTION:				
TITLE: BRI AUTO SEED SOWER MACHINE DRG. NAME: BED SOIL HOPPER-EXPLODED VIEW DWG NO: ASSM_BSH_EXD_010_A4 MANUFACTURING METHOD: MACHINING,BENDING,MOLDING & WELDING WEIGHT: 17776g SCALE: 1:20 SHEET NO : 010 REVISION: A				

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED


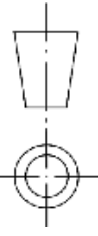
BILL OF METARIAL : ENGAGE DISENGAGE

ITEM NO	DESCRIPTION	PART NO	METARIAL	QTY
1	ENGAGE LEVER	ASSM_EL_121_A4	PLAIN CARBON STEEL	4
2	ENGAGE LEVER SCREW	ASSM_ELS_122_A4	AISI 1010 STEEL	16
3	ENGAGE LEVER BASE PLATE 1	ASSM_ELBP_123_A4	PLAIN CARBON STEEL	4
4	ENGAGE LEVER BASE PLATE 2	ASSM_ELBP_124_A4	PLAIN CARBON STEEL	4
5	ENGAGE CAM	ASSM_EC_125_A4	PLAIN CARBON STEEL	2
6	ENGAGE NOBE	ASSM_EN_126_A4	PLAIN CARBON STEEL	4
7	ENGAGE SPRING	ASSM_ES_127_A4	AISI 1010 STEEL	4
8	ENGAGE BUSH 1	ASSM_EB_128_A4	PLAIN CARBON STEEL	4
9	ENGAGE FLAT FASTENER	ASSM_EFF_129_A4	PLAIN CARBON STEEL	4
10	ENGAGE COUPLING 1	ASSM_EC_130_A4	PLAIN CARBON STEEL	4
11	ENGAGE COUPLING LOCK SCREW	ASSM_ECLS_131_A4	PLAIN CARBON STEEL	4
12	ENGAGE COUPLING 2	ASSM_EC_132_A4	PLAIN CARBON STEEL	4
13	ENGAGE BUSH	ASSM_EB_133_A4	PLAIN CARBON STEEL	4

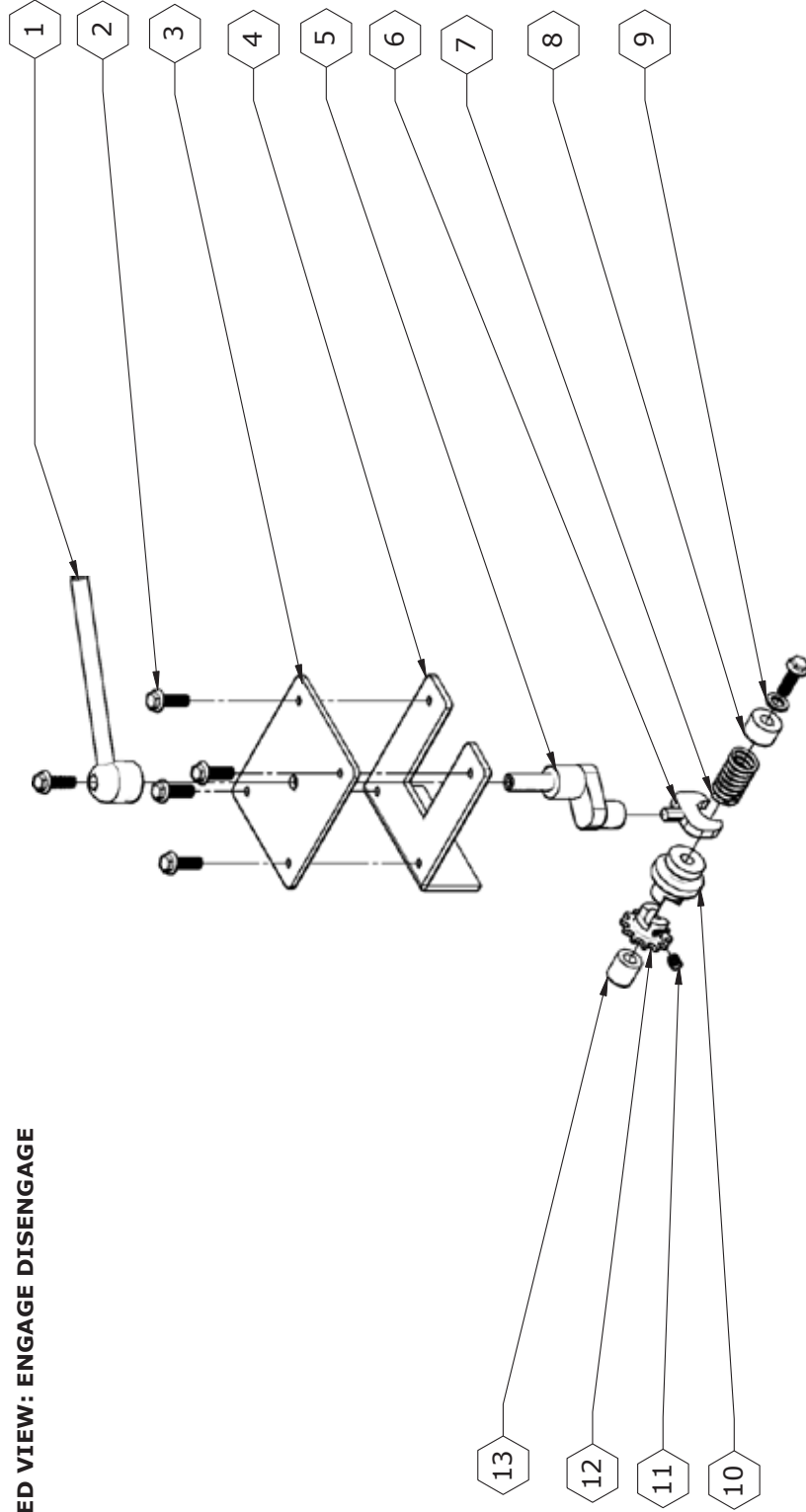



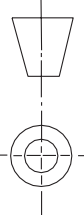
SIMILAR PARTS
QUANTITY SHOWN
HERE BETWEEN
BED & TOP SOIL
HOPPER

NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		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 AUTO SEED SOWER MACHINE DRG. NAME: ENGAGE SUB-ASSEMBLY DWG NO: ASSM_ASA_011_A4	FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS: NAME: MD. SHAFIQUL ISLAM CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'VD: DR. AKM SAIFUL ISLAM	SIGNATURE: M S I M M H A S I	DATE: 20/FEB/2024 20/FEB/2024 30/FEB/2024	THIRD ANGLE PROJECTION: 	
		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING WEIGHT: ----- SCALE: --- SHEET 011		REVISION: A A4

EXPLODED VIEW: ENGAGE DISENGAGE

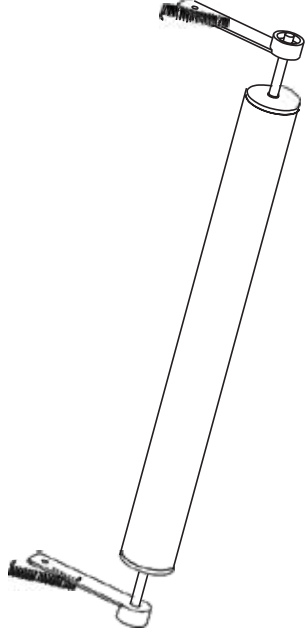



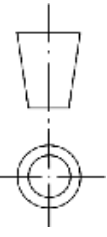
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE			BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING
	DETAILS	NAME	SIGNATURE	DATE	FINISH: NONE FIRST ISSUED: 08 FEB,2024
DRAWN	MD. SHAFIQUIL ISLAM	M S I	20FEB,2024	TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: ENGAGE DISENGAGE-EXPLODED VIEW DWG NO: ASSM_ENG_EXP_012_A4 MANUFACTURING METHOD: MACHINING,BENDING,MOLDING & WELDING WEIGHT: 2069.6g SCALE: 1:5 SHEET NO : 012 REVISION: A	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024		
APP'D	DR. ARM SAFIUL ISLAM	A S I	30FEB,2024		
THIRD ANGLE PROJECTION:					

**NOTE: DEBURR AND BREAK SHARP EDGES
ALL BENDS MIN. RADIUS UNLESS SPECIFIED**

BILL OF METARIAL : BED SOIL LEVELLER

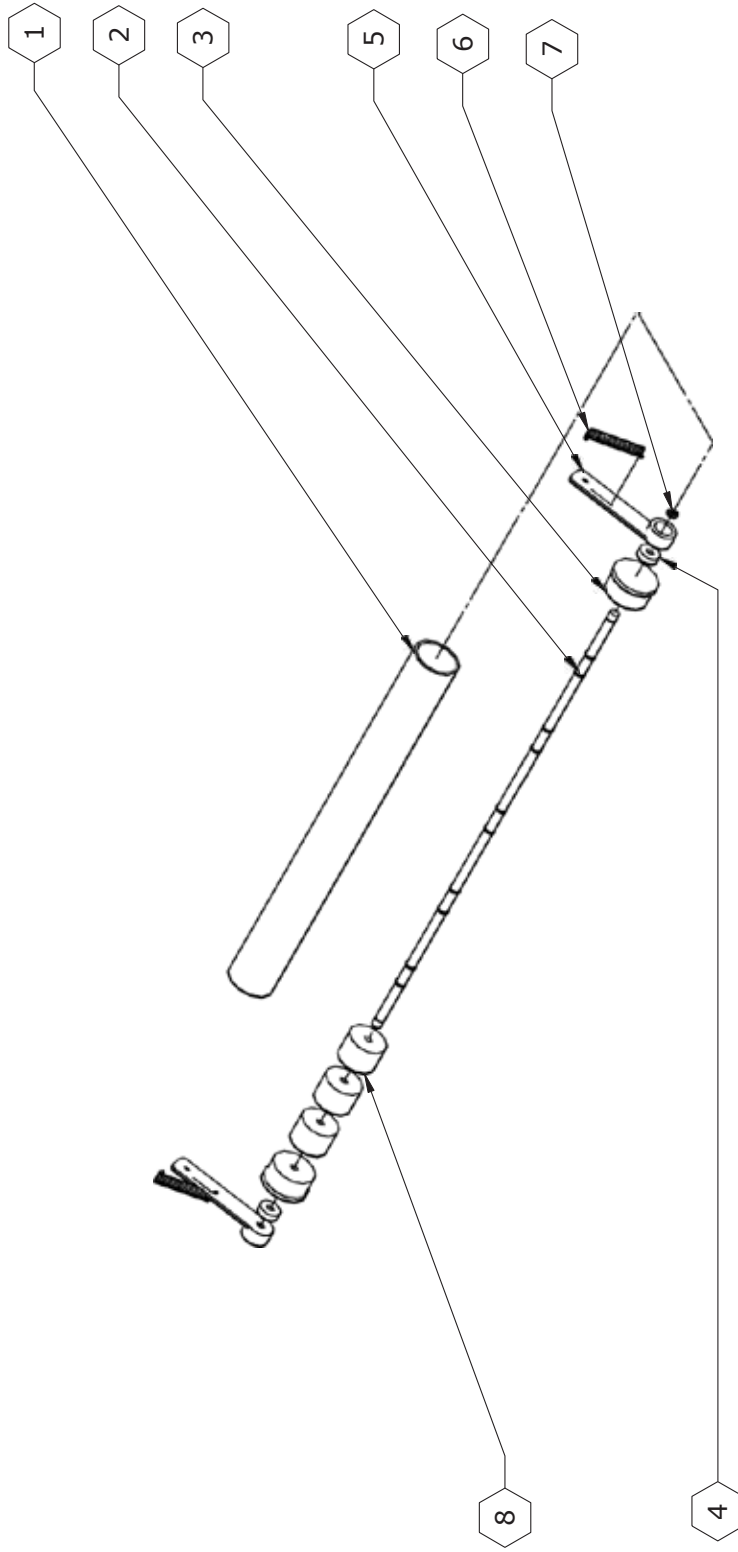
ITEM NO	DESCRIPTION	PART NO	METARIAL	QTY
1	BED SOIL LEVELLER PIPE	ASSM_BSLP_134_A4	PVC PLASTICIZED	1
2	BED SOIL LEVELLER SHAFT	ASSM_BSL_135_A4	PLAIN CARBON STEEL	1
3	BED SOIL LEVELLER COLLAR BUSH	ASSM_BSLCB_136_A4	NYLON	2
4	BED SOIL LEVELLER BEARING 6000	ASSM_BSLB_137_A4	STAINLESS STEEL	2
5	BED SOIL LEVELLER BEARING HOUSE	ASSM_BSLB_138_A4	PLAIN CARBON STEEL	2
6	BED SOIL LEVELLER SPRING	ASSM_BSL_139_A4	AISI 1010 STEEL	2
7	BED SOIL LEVELLER CIRCLIP LOCK	ASSM_BSLCL_140_A4	AISI 1010 STEEL	2
8	BED SOIL LEVELLER BUSH	ASS_BSLB_141_A4	NYLON	3


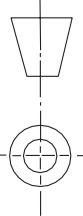


		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING
		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: BED SOIL LEVELLER SUB-ASSEMBLY DWG NO: ASSM_BSL_13_A4		FINISH: NONE FIRST ISSUED: 8 FEB 2024
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		DETAILS DRAWN MD. SHAFIQUL ISLAM CHKD DR. MD. MOSHARRAF HOSSAIN APPVD DR. AKM SAJFUL ISLAM	SIGNATURE M S I M M H A S I	DATE 20/FEB/2024 28/FEB/2024 30/FEB/2024
THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING WEIGHT: ---- SCALE: --- SHEET 013 REVISION: A		

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

EXPLODED VIEW: BED SOIL LEVELLER

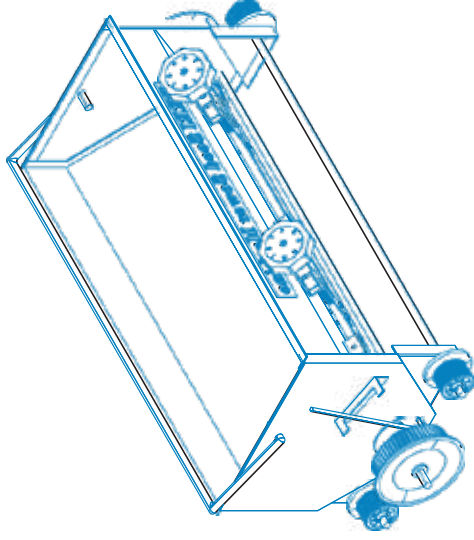



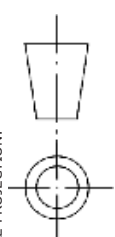
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		BANGLADESH RICE RESEARCH INSTITUTE		SCALE DRAWING																
		SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE																
<table border="1"> <thead> <tr> <th>DETAILS</th> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRAWN</td> <td>MD. SHAFQUL ISLAM</td> <td>M S I</td> <td>20FEB,2024</td> </tr> <tr> <td>CHK'D</td> <td>DR. MD. MOSHARRAF HOSSAIN</td> <td>M M H</td> <td>25FEB,2024</td> </tr> <tr> <td>APP'D</td> <td>DR. AMR SAIFUL ISLAM</td> <td>A S I</td> <td>30FEB,2024</td> </tr> </tbody> </table>		DETAILS	NAME	SIGNATURE	DATE	DRAWN	MD. SHAFQUL ISLAM	M S I	20FEB,2024	CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024	APP'D	DR. AMR SAIFUL ISLAM	A S I	30FEB,2024	TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: BED SOIL LEVELLER-EXPLODED VIEW DWG NO: ASSM_BDL_EXD_014_A4		
DETAILS	NAME	SIGNATURE	DATE																	
DRAWN	MD. SHAFQUL ISLAM	M S I	20FEB,2024																	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024																	
APP'D	DR. AMR SAIFUL ISLAM	A S I	30FEB,2024																	
THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: MACHINING,BENDING,MOLDING & WELDING WEIGHT: 5076g SCALE: 1:8 SHEET NO :014 REVISION: A																		

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

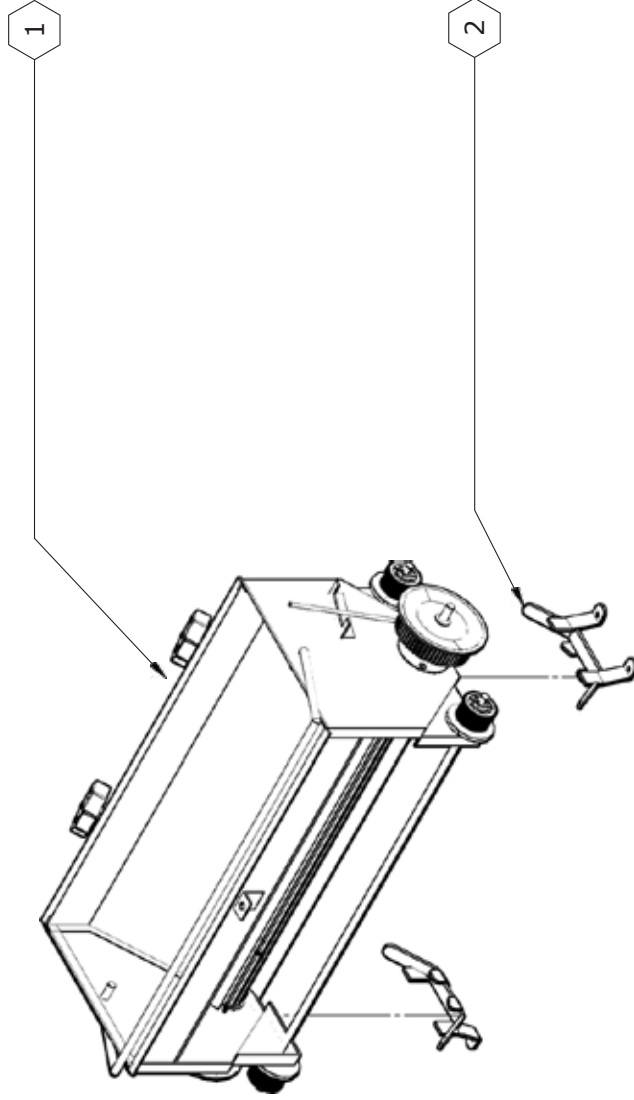
BILL OF METARIAL : MANUAL SEED SOWER


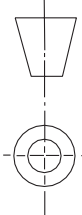
ITEM NO	DESCRIPTION	PART NO	METARIAL	QTY
1	BRI MANUAL SEED SOWER	ASSM_BMSS_142_A4	----	1
2	MANUAL SEED SOWER BASE	ASSM_MSSB_143_A4	PLAIN CARBON STEEL	2



		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		DETAILS DRAWN MD. SHAFIQUL ISLAM CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAJFUL ISLAM	SIGNATURE M S I M M H A S I	FINISH: NONE FIRST ISSUED: 8 FEB 2024
TITLE: BRRI AUTO SEED SOWER MACHINE		DRG. NAME: BRRI MANUAL SEED SOWER SUB-ASSEMBLY		
DWG NO: ASSM_BMSS_15_A4		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING		
THIRD ANGLE PROJECTION: 		WEIGHT: ---- SCALE: --- SHEET 015 REVISION: A		
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				

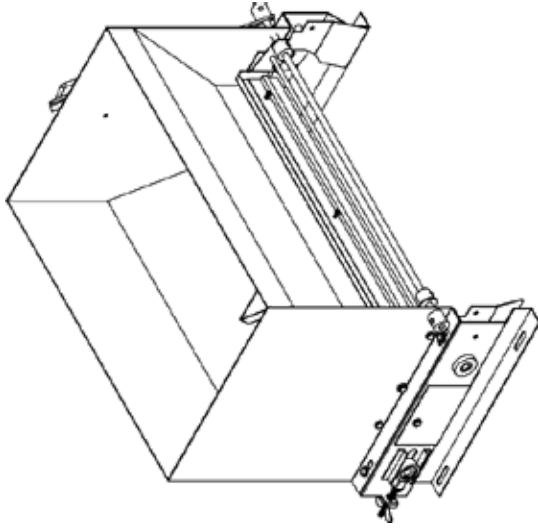
EXPLODED VIEW: BRRI MANUAL SEED SOWER


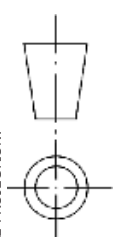


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: # 0.1, ANGULAR: # 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	FINISH: NONE		FIRST ISSUED: 08 FEB,2024	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024	DRG. NAME: BRRI MANUAL SEED SOWER MACHINE-EXPLODED VIEW			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	DWG NO: ASSM_MSS_EXD_016_A4			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN.RADIUS UNLESS SPECIFIED			MANUFACTURING METHOD: MACHINING,BENDING,MOLDING & WELDING WEIGHT: 241817g SCALE: 1:8 SHEET NO : 016 REVISION: A				

BILL OF METARIAL : TOP SOIL HOPPER

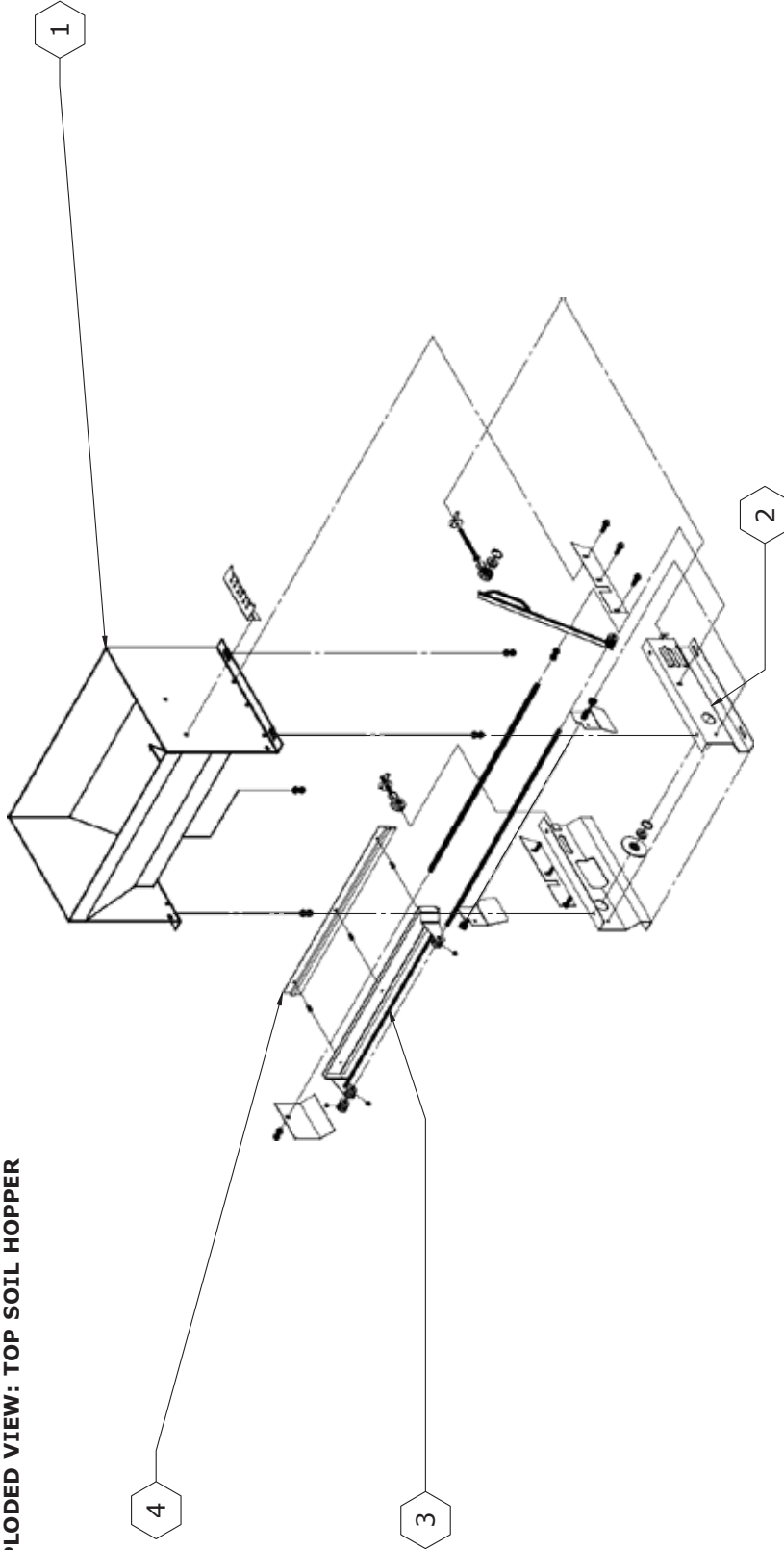
ITEM NO	DESCRIPTION	PART NO	METARIAL	QTY
1	TOP SOIL HOPPER	ASSM_TSH_145_A4	PLAIN CARBON STEEL	1
2	TOP SOIL HOPPER BASE	ASSM_TSHB_147_A4	PLAIN CARBON STEEL	2
3	TOP SOIL CONTROL FRAME	ASSM_TSCF_149_A4	PLAIN CARBON STEEL	1
4	TOP SOIL CONTROL BRUSH SET	ASSM_TSHB_151_A4	PLAIN CARBON STEEL	1


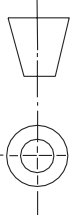


		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI AUTO SEED SOWER MACHINE	FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS DRAWN MD. SHAFIQUL ISLAM CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM	NAME MD. SHAFIQUL ISLAM DR. MD. MOSHARRAF HOSSAIN DR. AKM SAIFUL ISLAM	SIGNATURE M S I M M H A S I	DATE 20/FEB/2024 28/FEB/2024 30/FEB/2024	
DRG. NAME: TOP SOIL HOPPER SUB-ASSEMBLY DWG NO: ASSM_BMSS_15_A4		DRG. NAME: TOP SOIL HOPPER SUB-ASSEMBLY DWG NO: ASSM_BMSS_15_A4		
THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING WEIGHT: ---- SCALE: --- SHEET 017 REVISION: A		

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

EXPLODED VIEW: TOP SOIL HOPPER

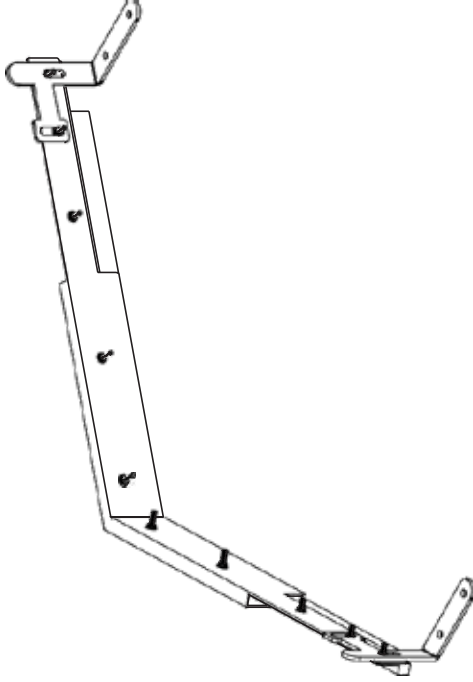



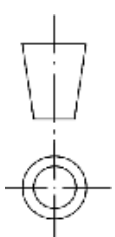
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETERS: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE	 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING	
			FINISH: NONE	
TITLE: BRR AUTO SEED SOWER MACHINE			FIRST ISSUED: 08FEB,2024	
DETAILS	NAME	SIGNATURE	DATE	
DRAWN	MD. SHAFQUL ISLAM	MD. SHAFIQ	20FEB,2024	
CHECKED	DR. MD. MOSHARRAF HOSSAIN	DR. N I H H	28FEB,2024	
APPROVED	DR. AKM SAIFUL ISLAM	DR. AKM S I	08MARCH,2024	
DRG. NAME: TOP SOIL HOPPER-EXPLODED VIEW DWG NO: ASSM_TSH_EXD_018_A4 MANUFACTURING METHOD: MACHINING,BENDING,MOLDING & WELDING WEIGHT: 17815g SCALE: 1:20 SHEET 018 REVISION: A				
THIRD ANGLE PROJECTION: 				

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

BILL OF METARIAL : TOP SOIL LEVELLER

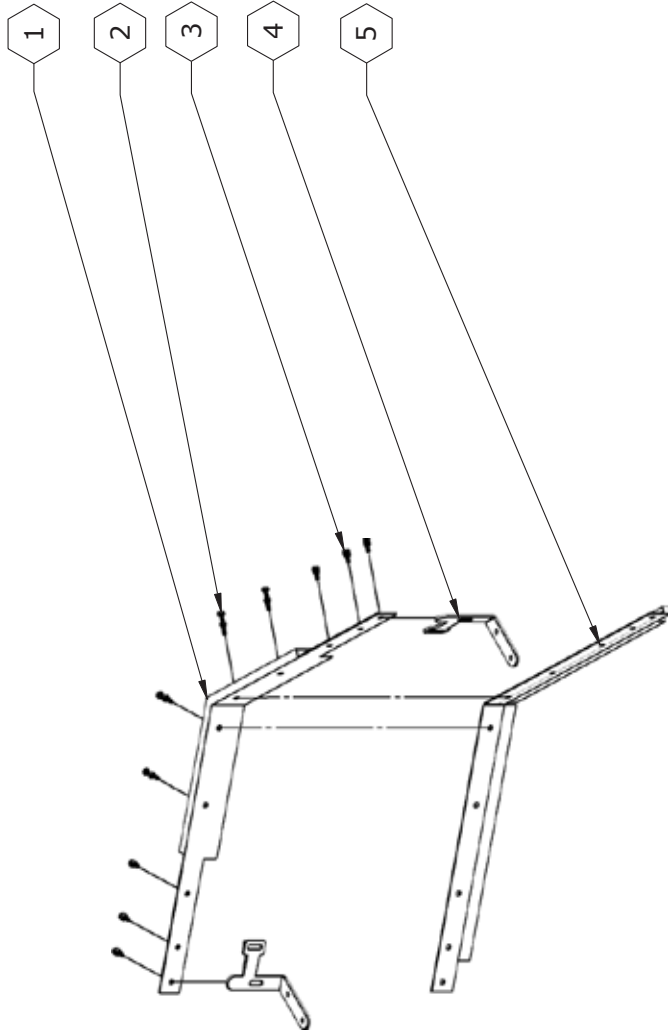
ITEM NO	DESCRIPTION	PART NO	METARIAL	QTY
1	TOP SOIL LEVELLER FRAME	ASSM_TSLF_152_A4	PLAIN CARBON STEEL	1
2	TOP SOIL LEVELLER SCREW 1	ASSM_TSLS_153_A4	AISI 1010 STEEL	4
3	TOP SOIL LEVELLER SCREW 2	ASSM_TSLS_154_A4	AISI 1010 STEEL	6
4	TOP SOIL LEVELLER BASE	ASSM_TSLB_155_A4	PLAIN CARBON STEEL	2
5	TOP SOIL LEVELLER BRUSH FRAME	ASSM_TSLBF_156_A4	PLAIN CARBON STEEL	1






		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		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 AUTO SEED SOWER MACHINE	FINISH: NONE	FIRST ISSUED: 8 FEB 2024
DETAILS	NAME MD. SHAFIQUL ISLAM	SIGNATURE M S I	DATE 20/FEB/2024	
CHK'D DR. MD. MOSHARRAF HOSSAIN	NAME DR. AKM SAIFUL ISLAM	SIGNATURE A S I	DRG. NAME: TOP SOIL LEVELLER SUB-ASSEMBLY	
APP'VD	NAME DR. AKM SAIFUL ISLAM	SIGNATURE A S I	DWG NO: ASSM_TSL_19 A4	
THIRD ANGLE PROJECTION:				
		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING		
WEIGHT: ----				
SCALE: ---				
SHEET 019				
REVISION: A				

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

EXPLODED VIEW: TOP SOIL LEVELLER

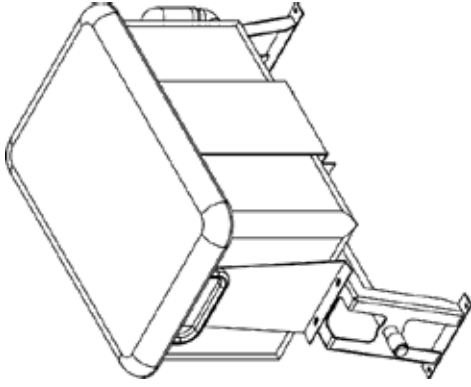



UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETERS: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE	 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING	
			FINISH: NONE	
TITLE: BRI AUTO SEED SOWER MACHINE			FIRST ISSUED: 08 FEB, 2024	
DETAILS NAME DRAWN: MD. SHAFIQUL ISLAM CHK'D: DR. MD. MOSHARRAF HOSSAIN APP'D: DR. AHM SAIFUL ISLAM		DATE 20/FEB, 2024 25/FEB, 2024 30/FEB, 2024	DRG. NAME: TOP SOIL LEVELLER-EXPLODED VIEW DWG NO: ASSM_TSL_EXD_020_A4	
THIRD ANGLE PROJECTION: <div style="display: flex; justify-content: space-around; align-items: center;">   </div>				
MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING WEIGHT: 1790.3g SCALE: 1:8 SHEET NO : 020 REVISION: A				

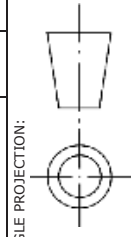
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

BILL OF METARIAL : WATER TANK

ITEM NO	DESCRIPTION	PART NO	METARIAL	QTY
1	WATER TANK COVER	ASSM_WTC_157_A4	PVC PLASTICIZED	1
2	WATER TANK	ASSM_WT_158_A4	PVC PLASTICIZED	1
3	WATER TANK LEFT SUPPORT PLATE	ASSM_WTSP_159_A4	PLAIN CARBON STEEL	2
4	WATER TANK FRONT SUPPORT PLATE	ASSM_WTFSP_160_A4	PLAIN CARBON STEEL	1
5	WATER DELIVERY PIPE	ASSM_WDP_161_A4	PVC PLASTICIZED	1
6	WATER TANK SCREW	ASSM_WTS_162_A4	AISI 1010 STEEL	8
7	WATER TANK BACK SUPPORT PLATE	ASSM_WTSP_163_A4	PLAIN CARBON STEEL	1
8	WATER TANK BASE	ASSM_WTB_164_A4	PLAIN CARBON STEEL	1

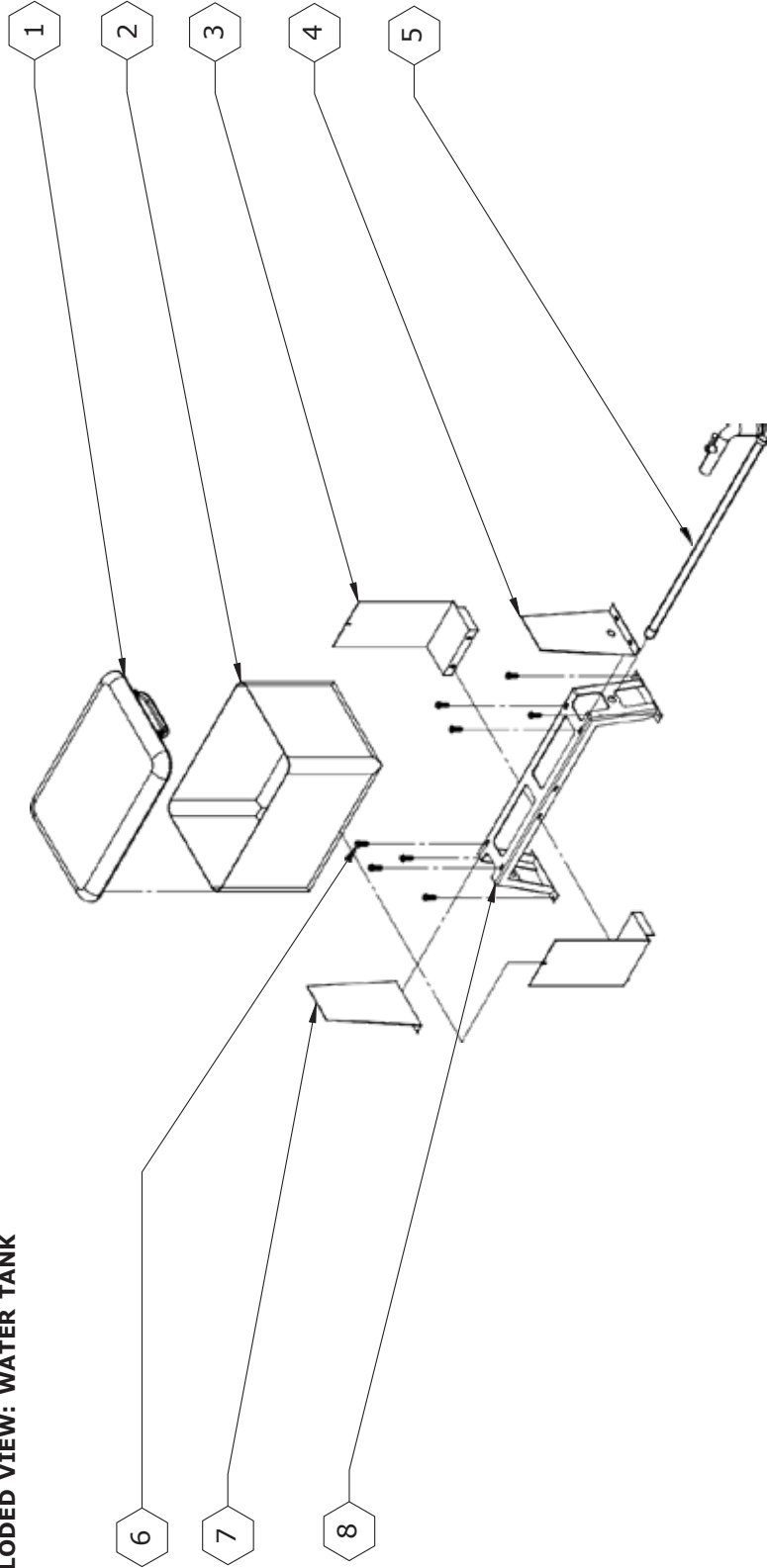



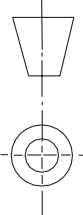
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		DETAILS DRAWN MD. SHAFIQUL ISLAM CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM	SIGNATURE M S I M M H A S I	FINISH: NONE FIRST ISSUED: 8 FEB 2024
TITLE: BRRI AUTO SEED SOWER MACHINE		DRG. NAME: WATER TANK SUB-ASSEMBLY		
DWG NO: ASSM_WTSA_21_A4		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING		
WEIGHT: -----		SCALE: ---		
SHEET 021		REVISION: A		



NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

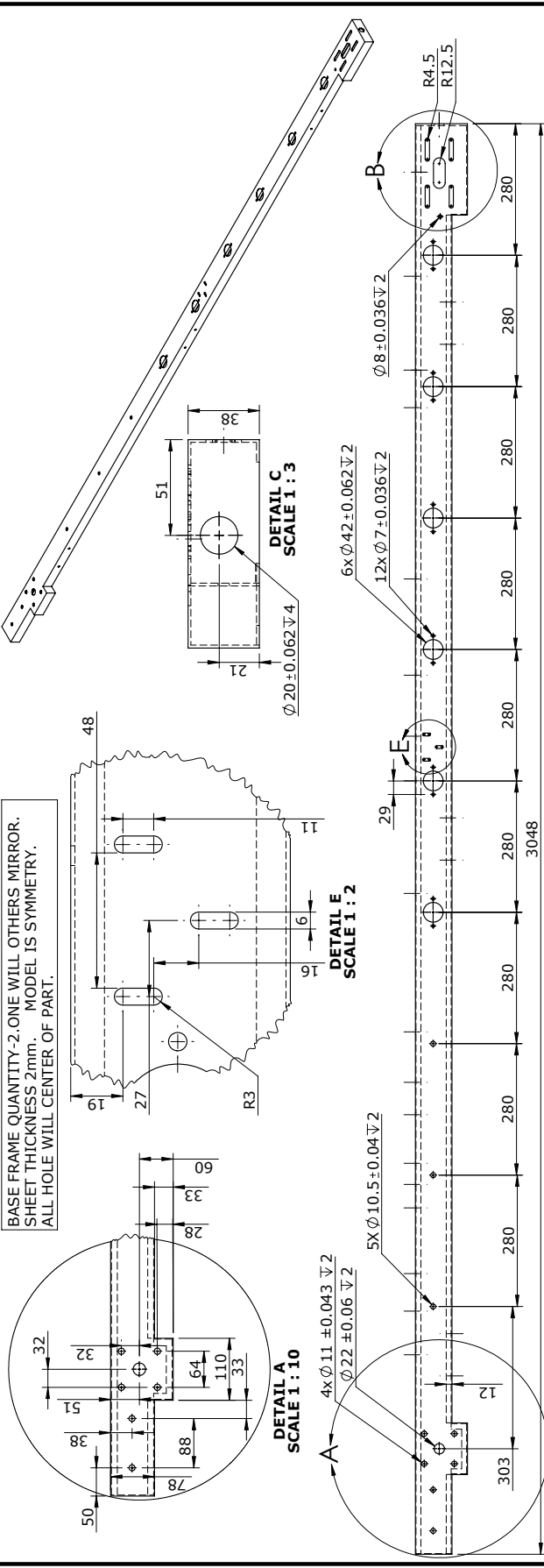
EXPLODED VIEW: WATER TANK



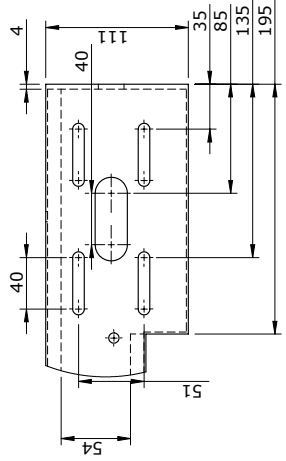
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE	 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		SCALE DRAWING	
			FINISH: NONE	
TITLE: BRRI AUTO SEED SOWER MACHINE			FIRST ISSUED: 08 FEB, 2024	
DRG. NAME: WATER TANK-EXPLODED VIEW		DRG. NO: ASSM_WTK_EXD_022_A4		
MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING		WEIGHT: 19311g SCALE: 1:16		
THIRD ANGLE PROJECTION:		SHEET NO : 022		
		REVISION: A		

**NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED**

BASE FRAME QUANTITY-2, ONE WILL OTHERS MIRROR, SHEET THICKNESS 2mm. MODEL IS SYMMETRY. ALL HOLE WILL CENTER OF PART.

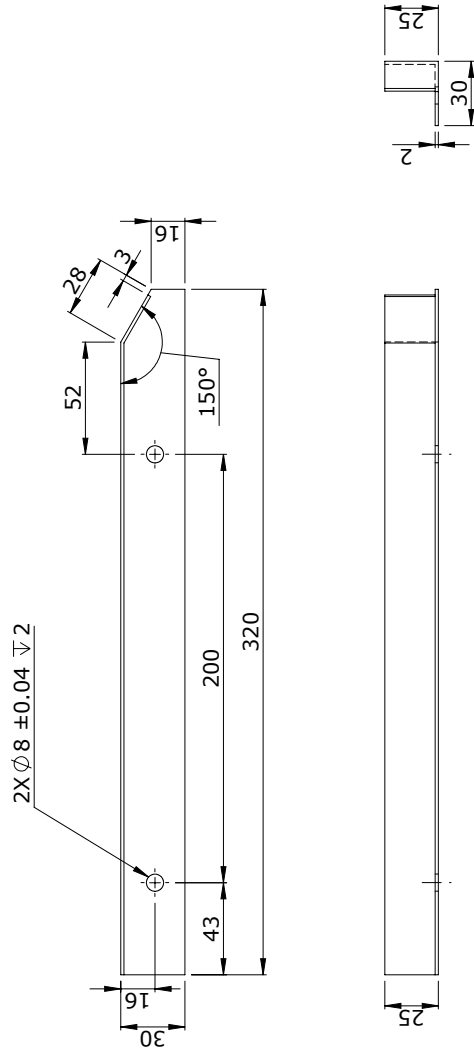
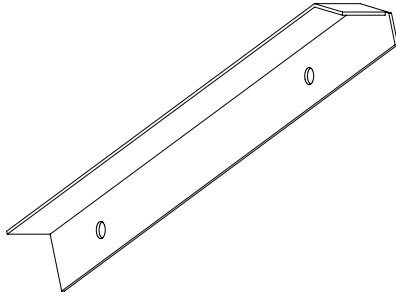


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE	BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
	SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE
			FIRST ISSUED: 8 FEB 2024
DETAILS NAME	SIGNATURE	DATE	
TITLE: BRRI AUTO SEED SOWER MACHINE			
DRG. NAME: BASE FRAME			
DWG NO: ASSM_BASE_023_A4			
MANUFACTURING METHOD: MACHINING, BENDING & WELDING			
MATERIAL: PLAIN CARBON STEEL		WEIGHT: 6394.53 g	A4
SCALE: 1:12	SHEET 023	REVISION:	A


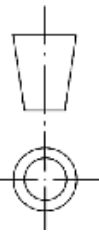


NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

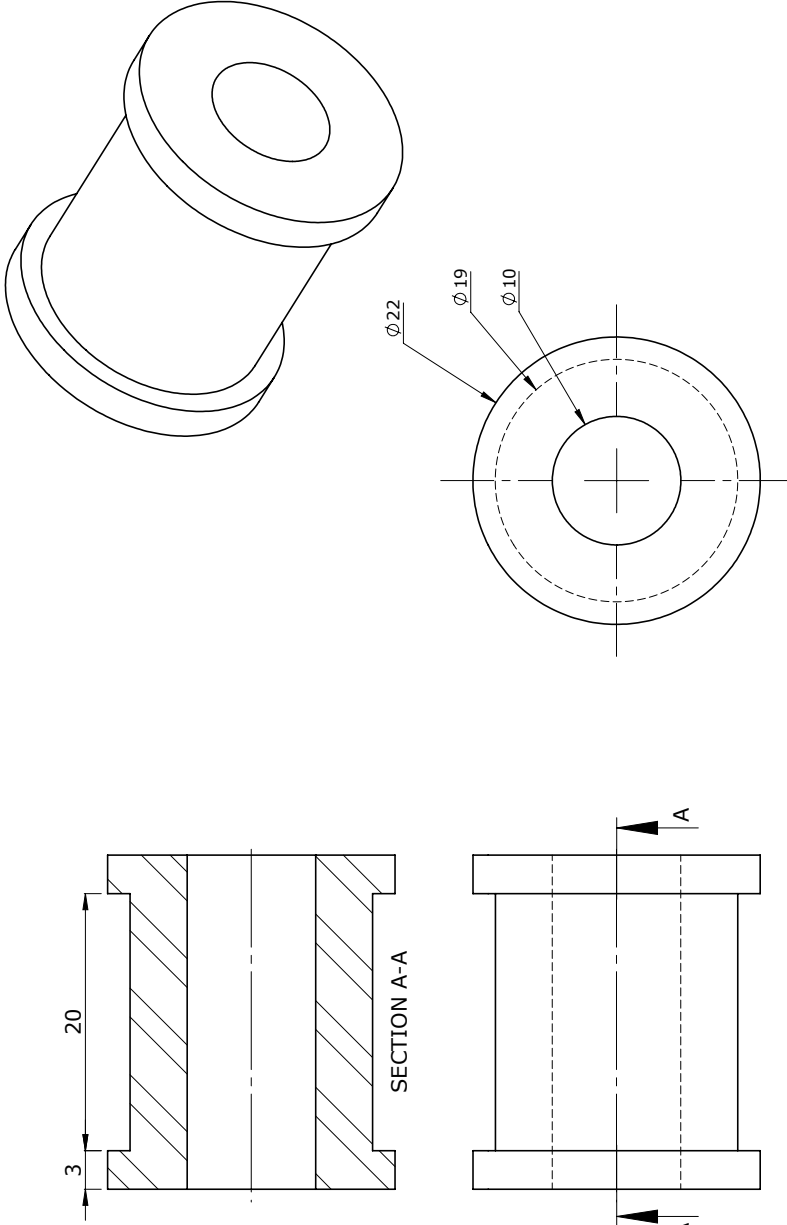
TREY GUIDER-1 QUANTITY-2
ONE WILL OTHERS MIRROR





NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: TRAY GUIDER-1			
CHKD	DR. MD. HOSHAARAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_TGI_024_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING, BENDING & WELDING			
THIRD ANGLE PROJECTION:							
				MATERIAL: PLAIN CARBON STEEL		WEIGHT: 198.46 g	
				SCALE: 1:3		SHEET 024	
				REVISION:		A	

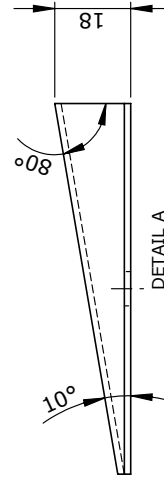
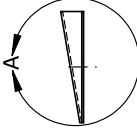
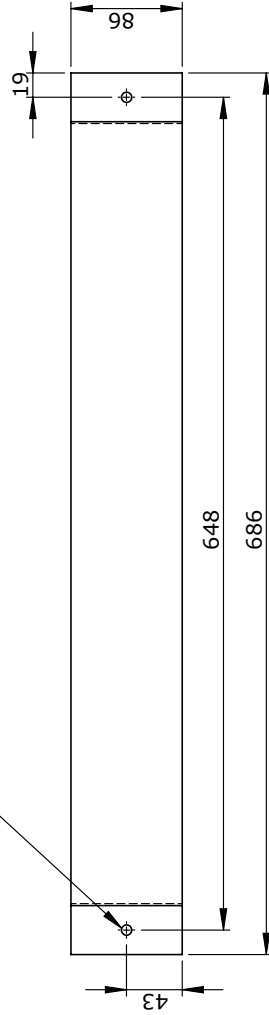
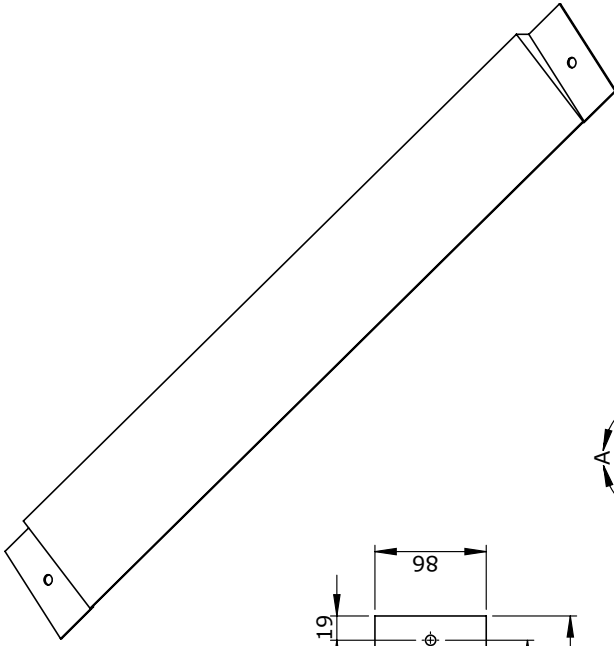
CHAIN TENSIONER BUSH
QUANTITY-1



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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: CHAIN TENSIONER BUSH			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_CTB_025_A4			
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLAIN CARBON STEEL WEIGHT: 46.36 g SCALE: 2:1 SHEET 025 REVISION: A			


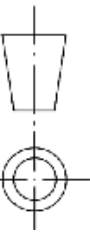
TRAY SLOPE FALLING GUIDER. QUANTITY-1
 MODEL IS SYMMETRY. SHEET THICKNESS IS 2 mm

2X $\varnothing 10 \pm 0.04 \nabla 2$

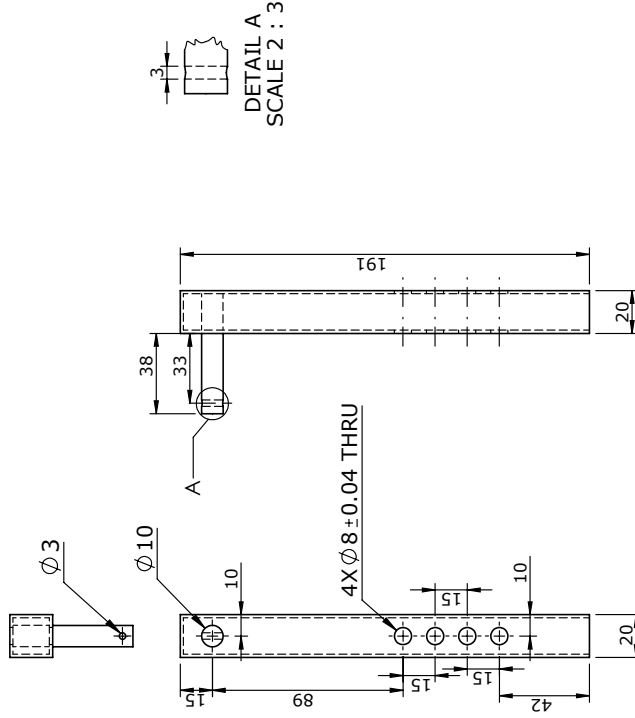



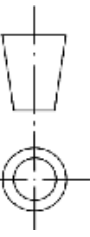
DETAIL A
 SCALE 2 : 3

NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

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 DRAWN MD. SHAFIQUL ISLAM M S J 20/FEB/2024 CHK'D DR. MD. MOSHARRAF HOSSAIN M M H 25/FEB/2024 APP'VD DR. AKM SAIFUL ISLAM A S J 30/FEB/2024		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: TRAY SLOPE FALLING GUIDER DWG NO: ASSM_TSFG_026_A4		FINISH: NONE FIRST ISSUED: 8 FEB 2024
THIRD ANGLE PROJECTION:				
		MANUFACTURING METHOD: MACHINING, BENDING & WELDING MATERIAL: PLAIN CARBON STEEL WEIGHT: 719.92 g SCALE: 1:5 SHEET 026 REVISION: A		

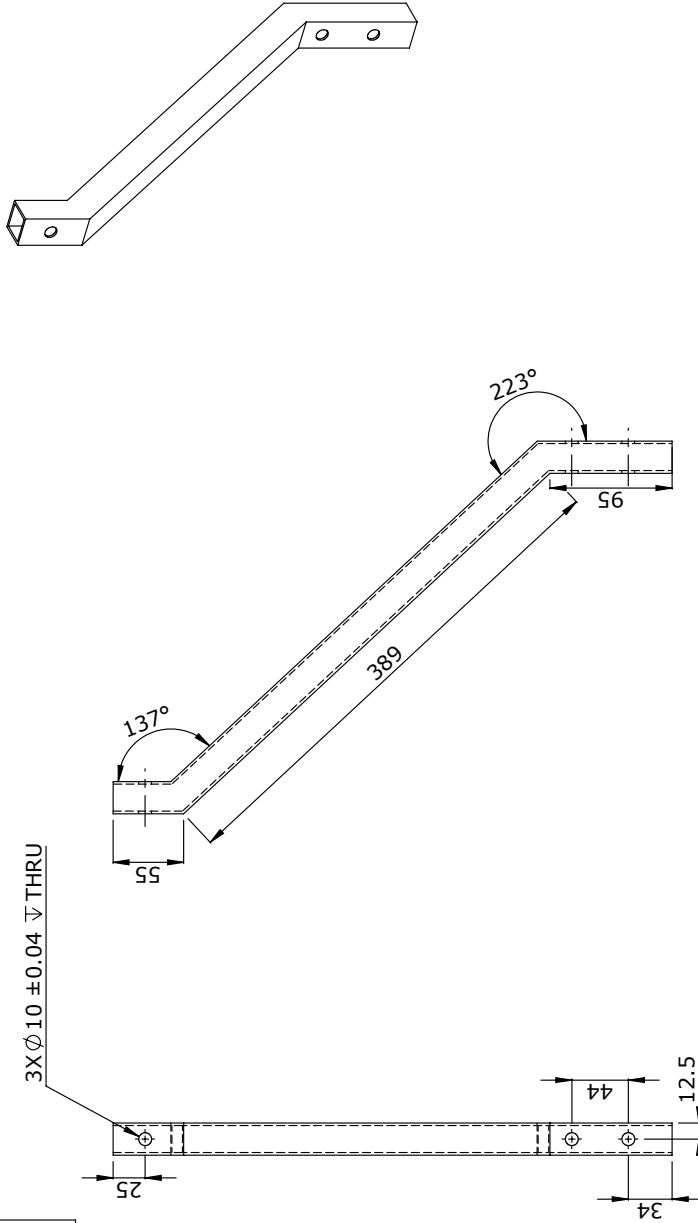
CHAIN TENSIONER BAR.
 QUANTITY-1.
 Ø 3 FOR SPLIT PIN USE.


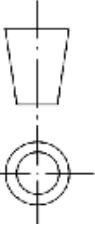


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS DRAWN MD. SHAFIQUL ISLAM CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: CHAIN TENSIONER BAR DWG NO: ASSM_CTB_027_A4 MANUFACTURING METHOD: MACHINING, WELDING MATERIAL: PLAIN CARBON STEEL SCALE: 1:3		FINISH: NONE FIRST ISSUED: 8 FEB 2024
THIRD ANGLE PROJECTION: 		WEIGHT: 196.89 g SHEET 027		REVISION: A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

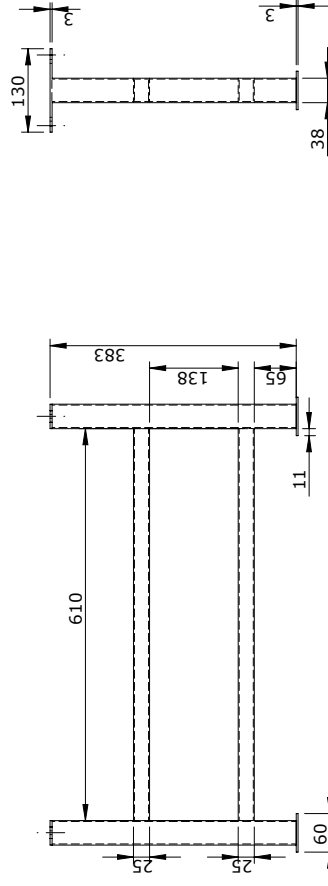
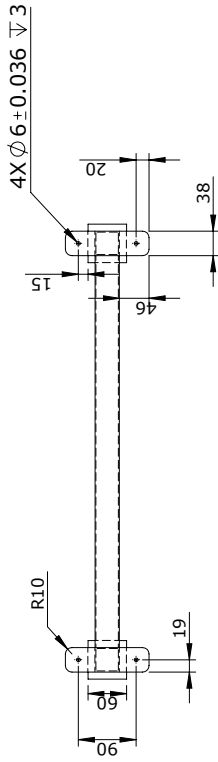
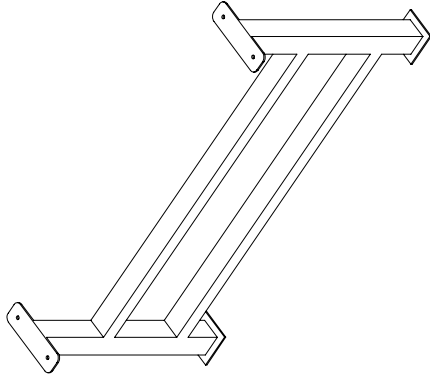
MOTOR VERTICAL BASE FRAME.
 QUANTITY-2
 ONE WILL OTHERS MIRROR .
 BOX SIZE 25X25X2 mm.


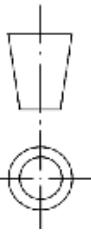


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	FINISH:	NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED:	8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024		
APPVD	DR. AKW SAIFUL ISLAM	A S I	30/FEB/2024		
THIRD ANGLE PROJECTION:			TITLE: BRRI AUTO SEED SOWER MACHINE		
			DRG. NAME: MOTOR VERTICAL BASE FRAME		
			DWG NO: ASSM_MVBF_028_A4		
			MANUFACTURING METHOD: MACHINING, BENDING & WELDING		
			MATERIAL: PLAIN CARBON STEEL		WEIGHT: 771.37 g
			SCALE: 1:5		SHEET 028
					REVISION: A

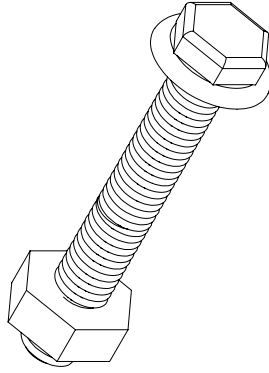
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

**BASEMENT STAND
QUANTITY-3
MODEL IS SYMMETRY .
BOX SIZE-38X38X2 mm
AND 25X38X2 mm.**


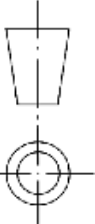


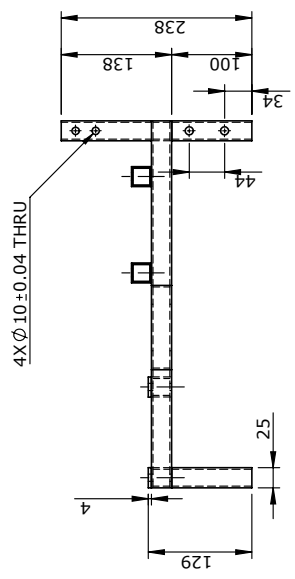
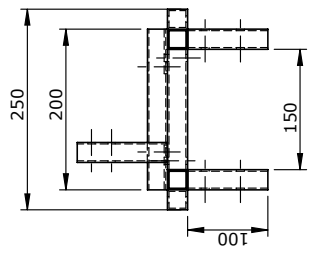
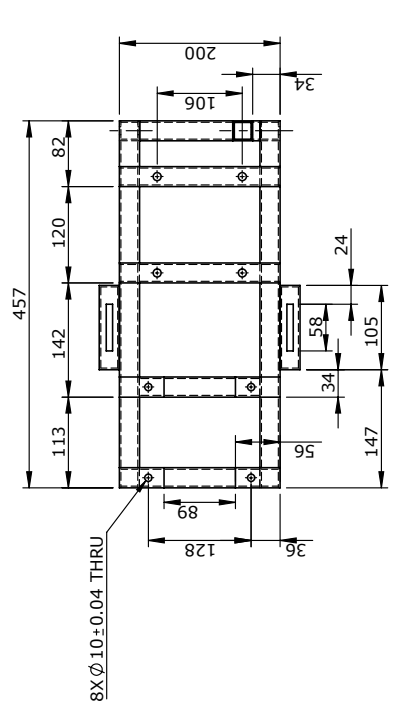
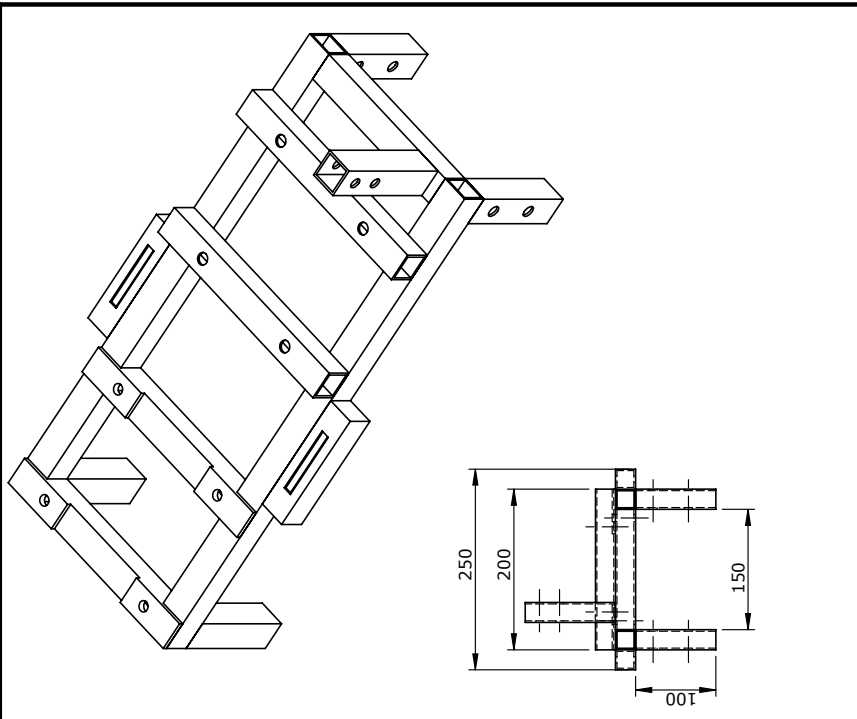
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: BASEMENT STAND			
CHK'D	DR. MD. HOSHARAF HOSSAIN	M P H	25/FEB/2024	DWG NO: ASSM_BMS_029_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING, BENDING & WELDING			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLAIN CARBON STEEL SCALE: 1:10 WEIGHT: 3369.31 g SHEET 029 REVISION: A			

MOTOR VERTICAL BASE
 FRAME BOLT QUANTITY-6
 BOLT -M10 LONG-70 MM
 TREAD-M10X1.25
 NUT-M10X1.25 LONG-7







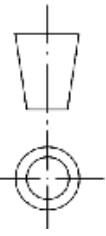
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

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	MD. SHAFIQUL ISLAM	M S I					FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H					
APPVD	DR. AKW SAIFUL ISLAM	A S I					
THIRD ANGLE PROJECTION:				TITLE: BRRI AUTO SEED SOWER MACHINE			
				DRG. NAME: MOTOR VERTICAL BASE FRAME BOLT			
				DWG NO: ASSM_MVBFB_030_A4			
				OUTSOURCING: VENDOR			
				MATERIAL: PLAIN CARBON STEEL		WEIGHT: 49.01 g	
				SCALE: 1:1		SHEET 030	
						REVISION: A	

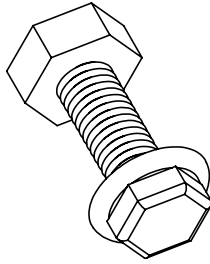


**MOTOR BASE
MODEL IS SYMMETRY.
HOLE WILL CENTER OF BOX .
BOX SIZE 25X25X2mm.
FLAT BAR SIZE-56X25X4 mm.**



NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

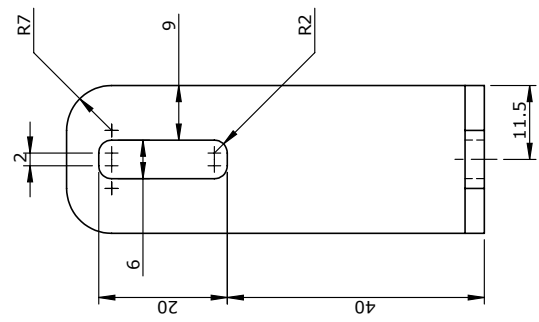
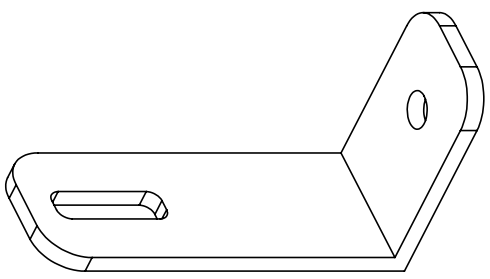
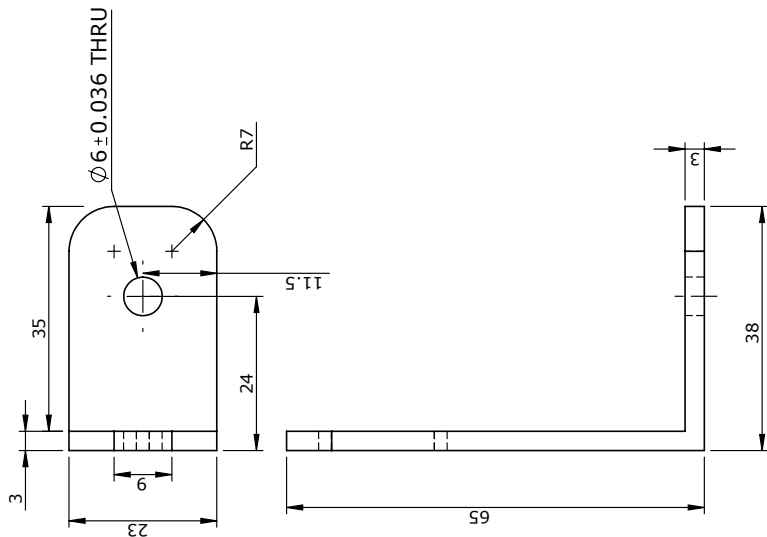
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS	NAME	SIGNATURE	DATE	
DRAWN	MD. SHAFIQUL ISLAM		20/FEB/2024	
CHK'D	DR. MD. HOSHARAF HOSSAIN		25/FEB/2024	
APP'VD	DR. AKM SAIFUL ISLAM		30/FEB/2024	
THIRD ANGLE PROJECTION:				
		DRG. NAME: MOTOR BASE DWG NO: ASSM_MB_031_A4 MANUFACTURING METHOD: MACHINING, BENDING & WELDING MATERIAL: PLAIN CARBON STEEL WEIGHT: 474.50 g SCALE: 1:8 SHEET 031 REVISION: A		

MINI BRUSH CLAMP BOLT
 BOLT M10
 THREAD M10X1.25
 LONG-38 MM
 NUT M10
 THREAD M10X1.25
 LONG-7 MM
 QUANTITY-2



NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

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: 8 FEB 2024	
DETAILS		NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		
DRAWN	MD. SHAFIQUL ISLAM	M S I	M S I	20FEB,2024	DRG. NAME: MINI BRUSH CLAMP BOLT		
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	M M H	20FEB,2024	DWG NO: ASSM_MBCB_032_A4		
APPVD	DR. AKM SAIFUL ISLAM	A S I	A S I	30FEB,2024	OUTSOURCING: VENDOR		
THIRD ANGLE PROJECTION:							
		MATERIAL: PLAIN CARBON STEEL		WEIGHT: 36.45 g		A4	
		SCALE: 1:1		SHEET 032		REVISION: A	



NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

UNLESS OTHERWISE SPECIFIED:
 STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER
 MILLIMETER: ± 0.1, ANGULAR: ± 0.05°
 * DOES NOT APPLY TO HOLE SIZE



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 SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	26/FEB/2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	29/FEB/2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: MINI BRUSH CLAMP

DWG NO: ASSM_MBC_033_A4

MANUFACTURING METHOD: MACHINING, BENDING

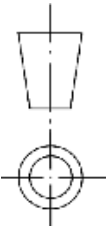
MATERIAL: PLAIN CARBON STEEL

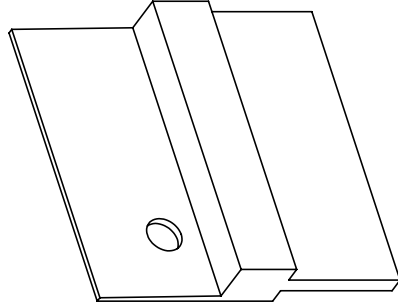
SCALE: 1:1

WEIGHT: 49.76 g


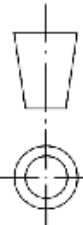
SHEET 033

REVISION: A



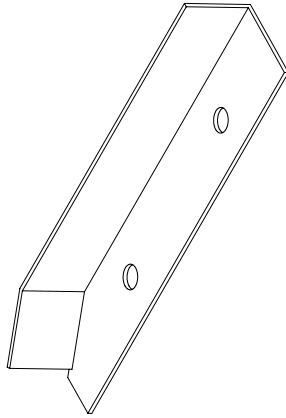
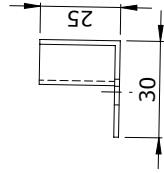
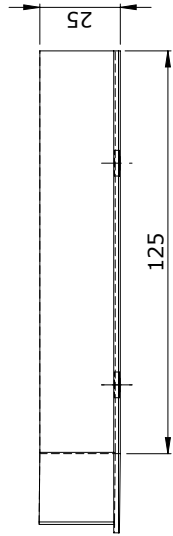
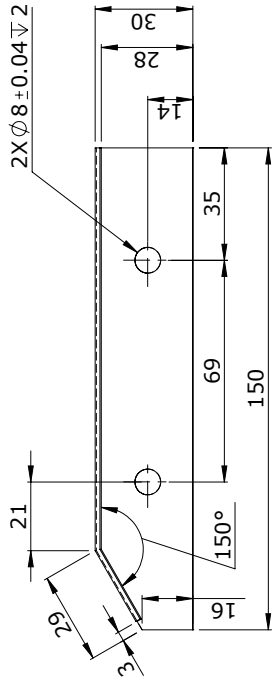


MINI BRUSH
 MATERIAL- ALUMINIUM ALLOY
 & PLASTIC
 LENGHT-50 mm. HOLE DIA
 6mm.

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 DRAWN MD. SHAFIQUL ISLAM CHKD DR. MD. MOSHARRAF HOSSAIN APPVD DR. AKM SAIFUL ISLAM		SIGNATURE M S I M M H A S I		DATE 20/FEB/2024 25/FEB/2024 30/FEB/2024		FINISH: NONE	
				TITLE: BRRI AUTO SEED SOWER MACHINE		FIRST ISSUED: 8 FEB 2024	
				DRG. NAME: MINI BRUSH			
				DWG NO: ASSM_MB_034_A4			
				OUTSOURCING: VENDOR			
				MATERIAL: ALUMINIUM ALLOY		WEIGHT: 69.12 g	
				SCALE: 1:1		SHEET 034	
						REVISION: A	

NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

TREY GUIDER-2. QUANTITY-2
 ONE WILL OTHERS MIRROR.
 SHEET THICKNESS 2 mm.
 MODEL IS SYMMETRY.



UNLESS OTHERWISE SPECIFIED:
 STD. TOLERANCE
 DIMENSIONS ARE IN MILLIMETER
 MILLIMETER: ± 0.1, ANGULAR: ±
 0.05°
 * DOES NOT APPLY TO HOLE SIZE



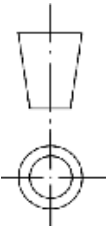
BANGLADESH RICE RESEARCH INSTITUTE
 SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB, 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	29/FEB, 2024
APPRVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB, 2024

TITLE: BRRI AUTO SEED SOWER MACHINE
 DRG. NAME: TRAY GUIDER-2
 DWG NO: ASSM_TG2_035_A4

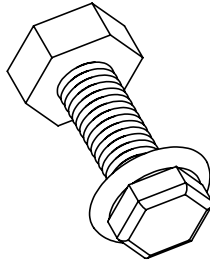
THIRD ANGLE PROJECTION:





NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

MANUFACTURING METHOD: MACHINING, BENDING & WELDING
 MATERIAL: PLAIN CARBON STEEL
 SCALE: 1:2
 WEIGHT: 175.46 g
 SHEET 035
 REVISION: A

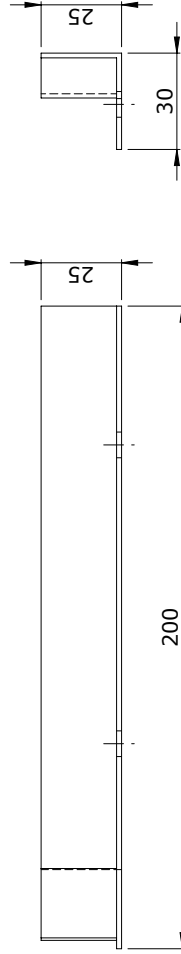
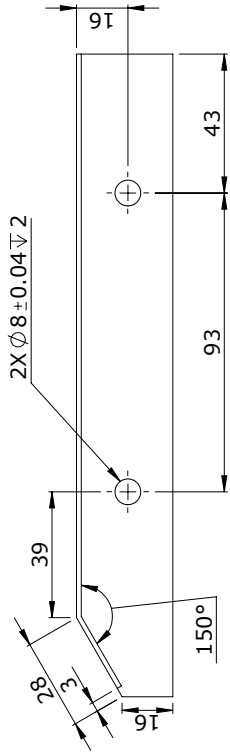
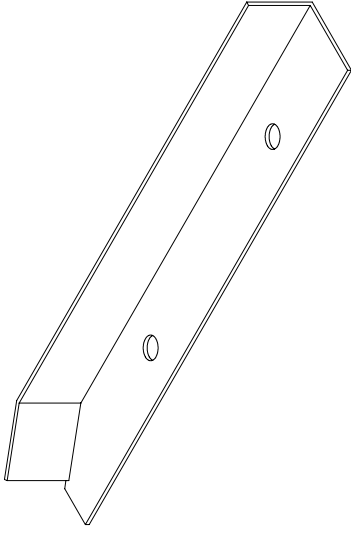
TRAY GUIDER BOLT
 BOLT M10
 THREAD M10X1.25
 LONG-25 MM
 NUT M10
 THREAD M10X1.25
 LONG-7 MM
 QUANTITY-12



NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

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 AUTO SEED SOWER MACHINE		
DRAWN	MD. SHAFIQUL ISLAM	M S I	M S I	26/FEB,2024	FINISH: NONE		
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	M M H	29/FEB,2024	FIRST ISSUED: 8 FEB 2024		
APPRD	DR. AKM SAIFUL ISLAM	A S I	A S I	30/FEB,2024	DRG. NAME: TRAY GUIDER BOLT		
THIRD ANGLE PROJECTION:							
				DWG NO: ASSM_TGB_036_A4			
				OUTSOURCING: VENDOR			
				MATERIAL: PLAIN CARBON STEEL			
				SCALE: 1:1			
				SHEET 036			
				WEIGHT: 30.45 g			
				REVISION: A			

TREY GUIDER-3 QUANTITY-2
 ONE WILL OTHERS MIRROR
 SHEET THICKNESS 2MM
 MODEL IS SYMMETRY



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: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	29/FEB/2024
APPR'D	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: TRAY GUIDER-3

DWG NO: ASSM_TG3_037_A4

MANUFACTURING METHOD: MACHINING, BENDING & WELDING

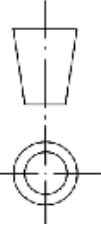
MATERIAL: PLAIN CARBON STEEL

SCALE: 1:2

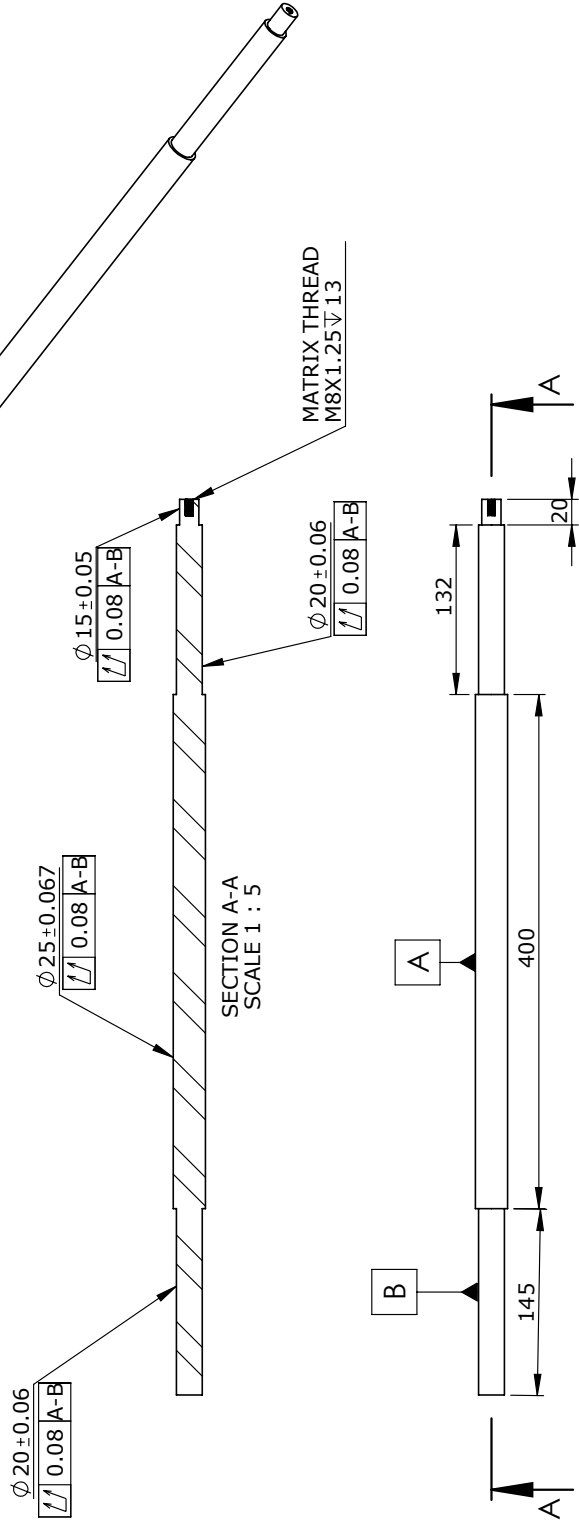
SHEET 037


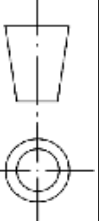
REVISION: A

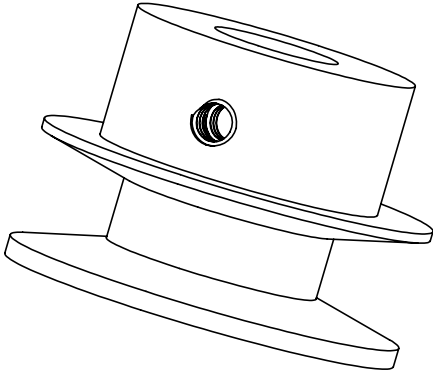
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED



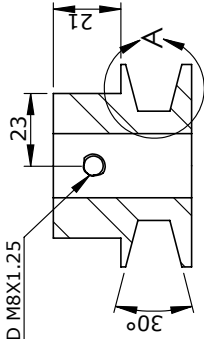
MODEL IS SYMMETRY



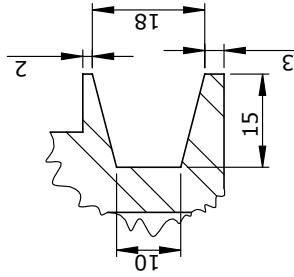
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28FEB,2024	DRG. NAME: MAIN POWER SHAFT		FIRST ISSUED: 8 FEB 2024	
CHKD	DR.MD.MOSHARRAF HOSSAIN	M M H	25FEB,2024	DWG NO: ASSM_MPS_038_A4		WEIGHT: 2249.58 g	
APPVD	DR. AKW SAIFUL ISLAM	A S I	30FEB,2024	MANUFACTURING METHOD: MACHINING		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 038	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLAIN CARBON STEEL		REVISION: A	
				SCALE: 1:5		REVISION: A	



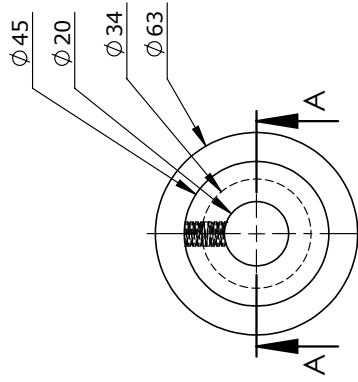
Ø8±0.04▽13
MATRIX THREAD M8X1.25



SECTION A-A
SCALE 1 : 2



DETAIL 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
SFMR PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING
FINISH: NONE
FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	26/FEB,2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	28/FEB,2024
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB,2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: MAIN POWER SHAFT PULLY1

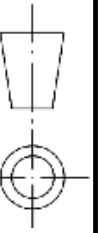
DWG NO: ASSM_MPSP_039_A4

MANUFACTURING METHOD: MACHINING

MATERIAL: GRAY CAST IRON

SCALE: 1:2

NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

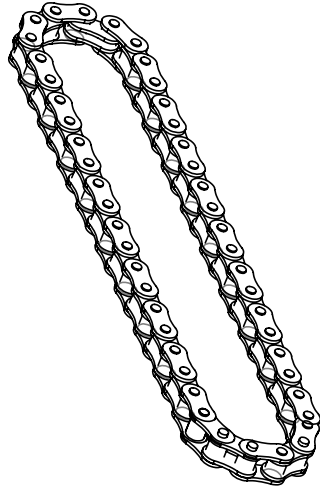



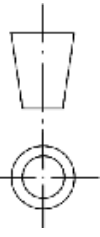
WEIGHT: 445.56 g

SHEET 039

REVISION: A

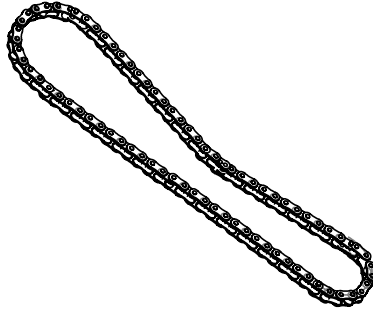
MAIN POWER TO SUB POWER SHAFT CHAIN
 CHAIN NO T30
 LENGTH-490


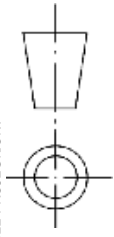


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS	NAME	SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	26/FEB,2024	FIRST ISSUED: 8 FEB 2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB,2024	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB,2024	
TITLE: BRRI AUTO SEED SOWER MACHINE				
DRG. NAME: MAIN TO SUB POWER SHAFT CHAIN				
DWG NO: ASSM_MTPSPC_040_A4				
THIRD ANGLE PROJECTION:				
		OUTSOURCING: VENDOR		
		MATERIAL: AISI 1010 STEEL		
		SCALE: 1:2		
		SHEET 040		
		WEIGHT: 187.55 g		
		REVISION: A		

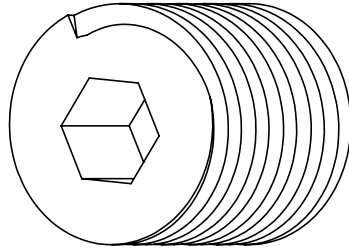
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED


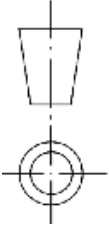
GEAR BOX TO MAIN POWER SHAFT CHAIN
CHAIN NO T30
LENGTH-710



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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUIL ISLAM	M S I	26/FEB,2024	DRG. NAME: GEAR BOX TO MAIN POWER SHAFT CHAIN			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	28/FEB,2024	DWG NO: ASSM_GTMPSC_041_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB,2024	OUTSOURCING: VENDOR			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED							
			SCALE: 1:5		SHEET 041		REVISION: A
			MATERIAL: AISI 1010 STEEL		WEIGHT: 187.55 g		A4

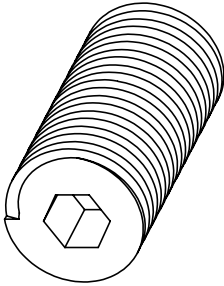
SPROCKET ALLEN KEY SCREW $\phi 8 \pm 0.04$
 MATRIX THREAD M8X1.25
 LENGHT-7.5 MM



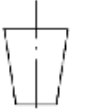


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS	NAME	SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: SPROCKET ALLEN KEY SCREW		
		DWG NO: ASSM_SAKS_042_A4		
		OUTSOURCING: VENDOR		
		MATERIAL: AISI 1010 STEEL		
		SCALE: 3:1		
		SHEET 042		
		WEIGHT: 30.12 g		
		REVISION: A		

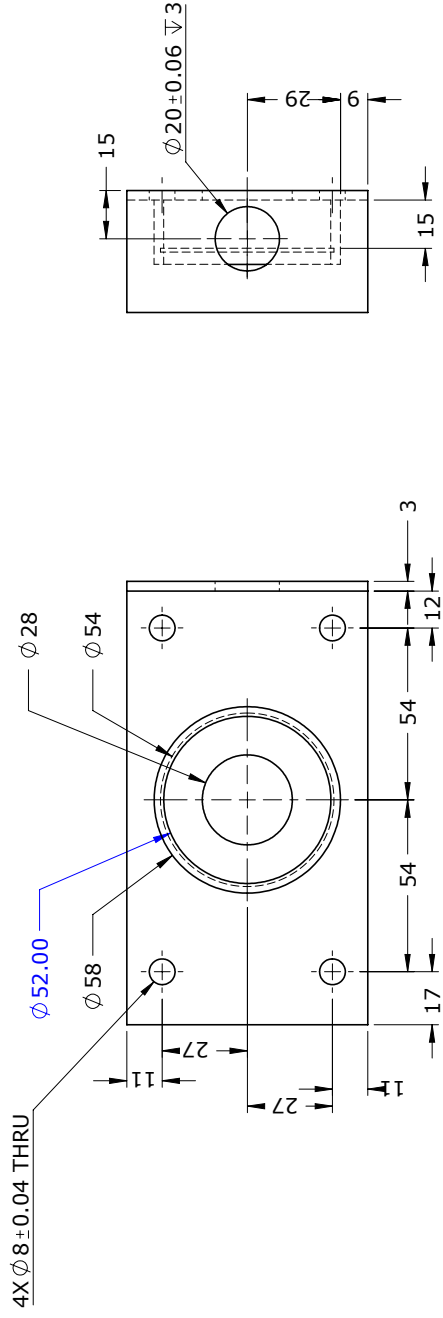
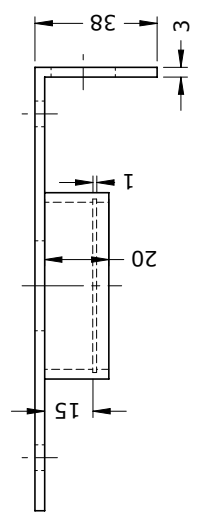
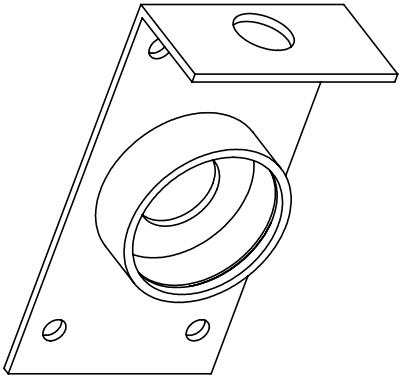
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED


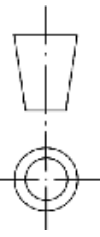
PULLY LOCK SCREW $\phi 8 \pm 0.04$
 MATRIX THREAD M8X1.25
 LENGHT-10 MM

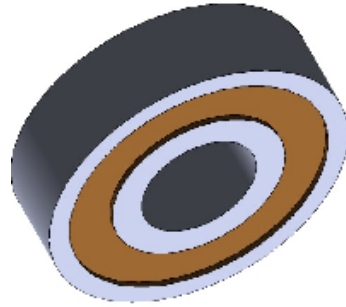


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE			BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
			SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE
TITLE: BRRI AUTO SEED SOWER MACHINE			FIRST ISSUED: 8 FEB 2024		
DETAILS	NAME	SIGNATURE	DATE		
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024		
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024		
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024		
THIRD ANGLE PROJECTION:					
					
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED					
DRG. NAME: PULLY LOCK SCREW			WEIGHT: 32.20 g		
DWG NO: ASSM_PLS_043_A4			REVISION: A		
FINDING METHOD: SHOP			SHEET 043		
MATERIAL: AISI 1010 STEEL			SCALE: 3:1		


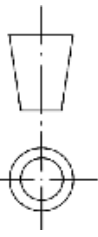
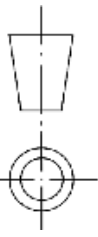
MAIN POWER SHAFT
 BEARING COVER
 MODEL IS SYMMETRY
 BLUE COLOR
 DIMENSION FOR
 BEARING ZONE
 PURPLE COLOR FOR
 CIRCLIP LOCK



		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: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: BEARING COVER DWG NO: ASSM_BC_044_A4 MANUFACTURING METHOD: MACHINING, BENDING & WELDING MATERIAL: PLAIN CARBON STEEL WEIGHT: 358.74 g SCALE: 1:2 SHEET 044		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS DRAWN: MD. SHAFIQUL ISLAM CHK'D: DR. MD. HOSHAARAF HOSSAIN APP'VD: DR. AKM SAIFUL ISLAM	SIGNATURE M S I M M H A S I	DATE 20FEB,2024 25FEB,2024 30FEB,2024	THIRD ANGLE PROJECTION: 	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				

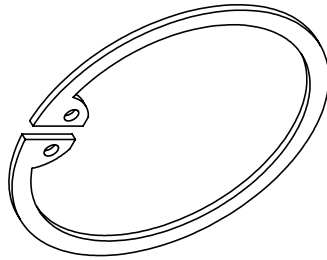



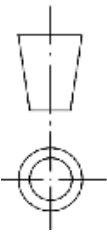
MAIN POWER SHAFT BEARING
BEARING NO-6304 DIMENTION
OD52 X IN20 X W15

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
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: BEARING- MAIN SHAFT	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_BC_045_A4	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	OUTSOURCING: VENDOR	
THIRD ANGLE PROJECTION:					
					
MATERIAL: STAINLESS STEEL(FERRITIC)				WEIGHT: 140 g	A4
SCALE: 1:1				SHEET 045	REVISION: A

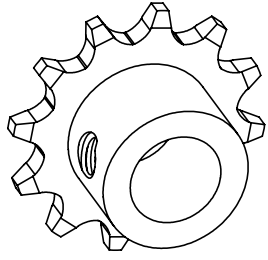
NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

MAIN POWER SHAFT BEARING INNER CIRCLIP LOCK
 DIMENTION OD54 X IN 37 X W1.5

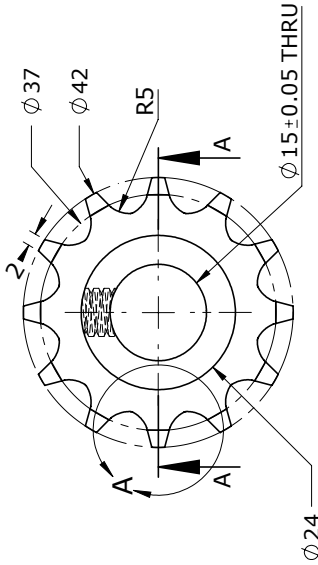
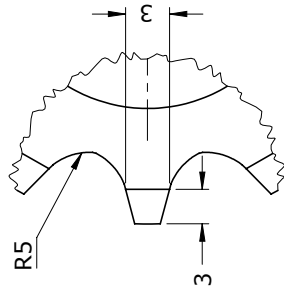
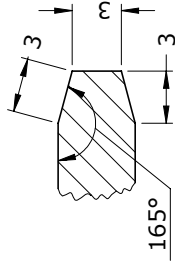
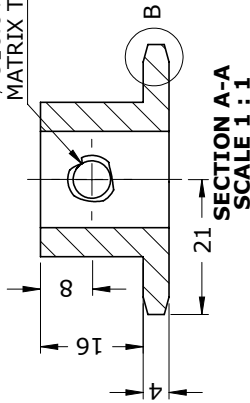


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS		NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		
DRAWN	MD. SHAFIQUL ISLAM	M S I	[Signature]	20/FEB/2024	DRG. NAME: CIRCLIP LOCK		
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	[Signature]	25/FEB/2024	DWG NO: ASSM_CL_046_A4		
APPVD	DR. AKM SAIFUL ISLAM	A S I	[Signature]	30/FEB/2024	OUTSOURCING: VENDOR		
THIRD ANGLE PROJECTION:					MATERIAL: AISI 1010		
					SCALE: 1:1		
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED					SHEET 046		
					WEIGHT: 40 g		
					REVISION: A		


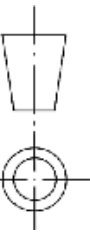
**MAIN POWER SHAFT SPROCKET-1
TEETH NO-12**



$\phi 8 \pm 0.04 \sqrt{5}$
MATRIX THREAD M8X1.25

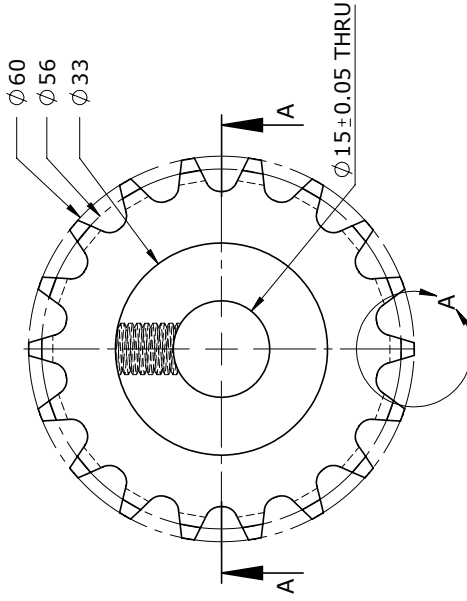
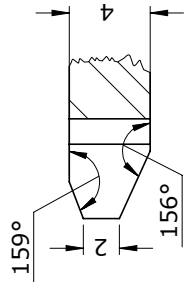
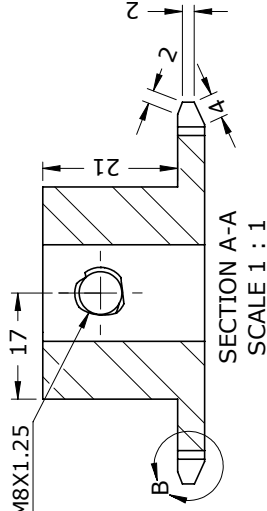
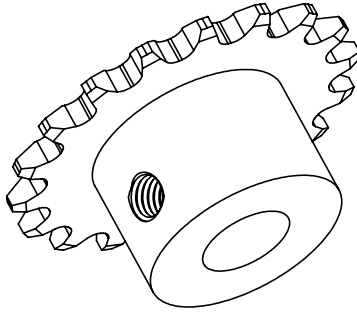


NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

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
DRAWN	MD. SHAFIQUL ISLAM	M S I	[Signature]	20FEB,2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	[Signature]	25FEB,2024
APPR'D	DR. AKM SAIFUL ISLAM	A S I	[Signature]	30FEB,2024
THIRD ANGLE PROJECTION:				
TITLE: BRRI AUTO SEED SOWER MACHINE				
DRG. NAME: SPROCKET-1				
DWG NO: ASSM_SPK1_047_A4				
MANUFACTURING METHOD: MACHINING				
MATERIAL: CAST IRON			WEIGHT: 125.74 g	A4
SCALE: 1:1			SHEET 047	REVISION: A


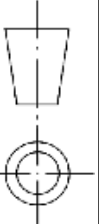
**AJITATOR SPROCKET-1
TEETH NO-18**

$\phi 8 \pm 0.04 \sqrt{9}$
MATRIX THREAD M8X1.25



**DETAIL B
SCALE 3 : 1**

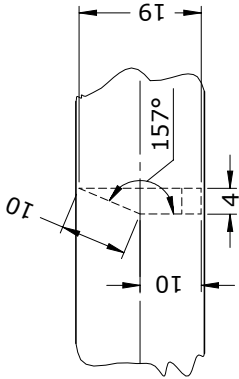
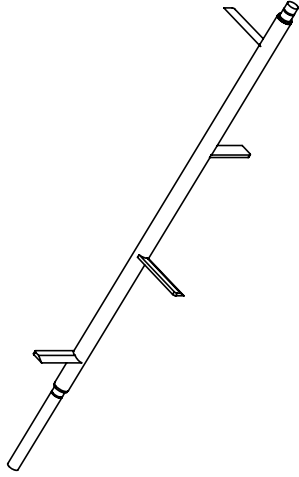
**DETAIL A
SCALE 2 : 1**

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
DRAWN	MD. SHAFIQUL ISLAM	M S I	[Signature]	20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	[Signature]	25/FEB/2024
APPVD	DR. AKM SAIFUL ISLAM	A S I	[Signature]	30/FEB/2024
THIRD ANGLE PROJECTION:				
TITLE: BRRI AUTO SEED SOWER MACHINE				
DRG. NAME: AJITATOR SPROCKET-1				
DWG NO: ASSM_ASPKTI_048_A4				
MANUFACTURING METHOD: MACHINING				
MATERIAL: CAST IRON			WEIGHT: 175.94 g	A4
SCALE: 1:1			SHEET 048	REVISION: A

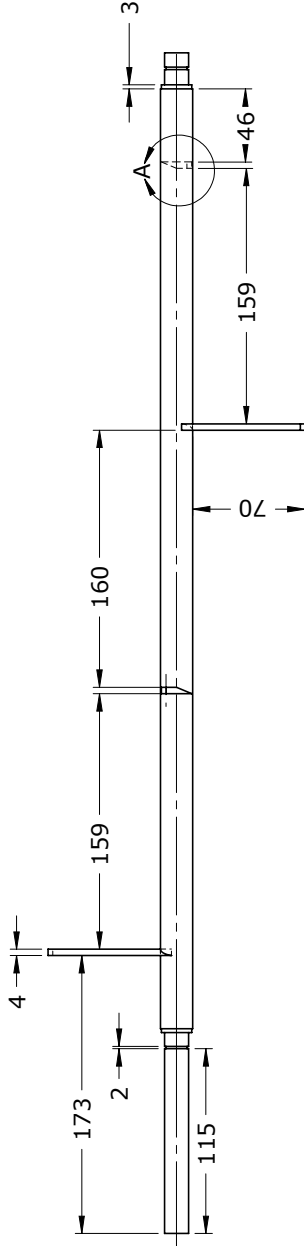
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

ITATOR SHAFT

N.B: MODEL IS SYMMETRY.
NOT A COMPLETE DRAWING.
ONLY FRONT VIEW DIMENSIONS HAS SHOWN IN
THIS SHEET. PLEASE SEE THE NEXT SHEET.



DETAIL A
SCALE 1 : 1



NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

DO NOT SCALE DRAWING
FINISH: NONE
FIRST ISSUED: 8 FEB 2024

BANGLADESH RICE RESEARCH INSTITUTE
SFMRA PROJECT, FMPHT DIVISION



TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: AJITATOR SHAFT

DWG NO: ASSM_AS_049_A4

MANUFACTURING METHOD: MACHINING

MATERIAL: PLAIN CARBON STEEL

WEIGHT: 1781.68 g

REVISION: A

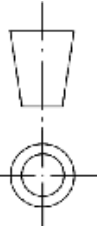
SHEET 049

SCALE: 1:4

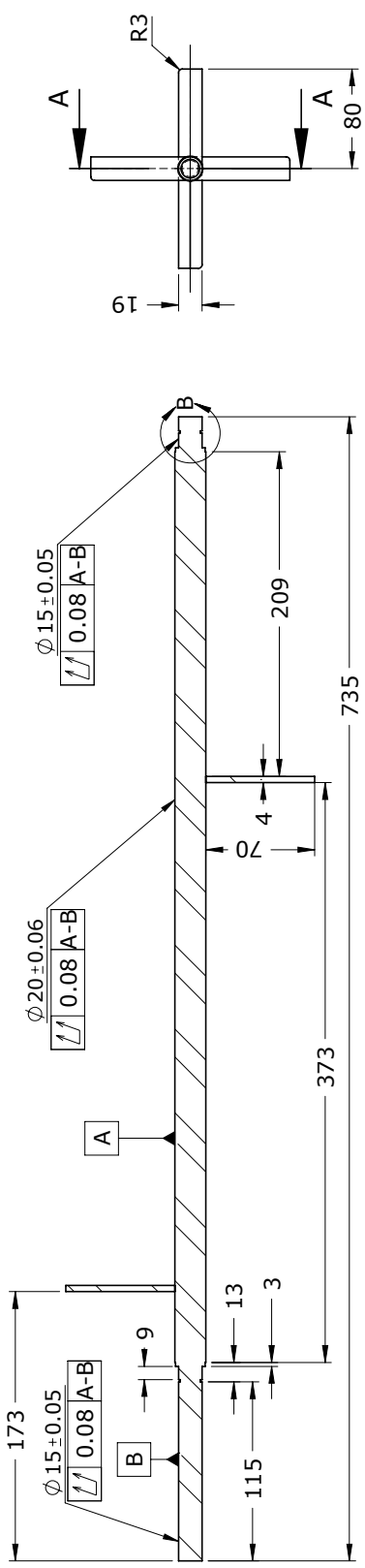
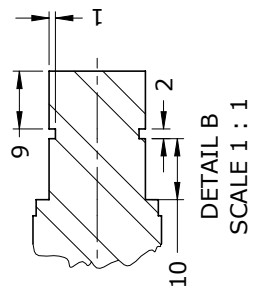
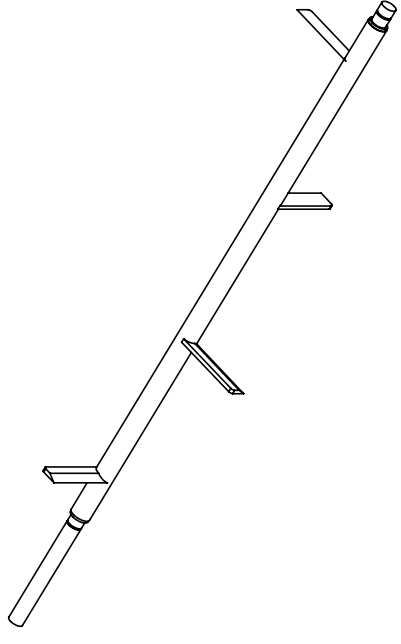
UNLESS OTHERWISE SPECIFIED:
STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER
MILLIMETER: ± 0.1, ANGULAR: ± 0.05°
* DOES NOT APPLY TO HOLE SIZE

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024
CHK'D	DR. MD. HOSHARAF HOSSAIN	M H H	25/FEB/2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024

THIRD ANGLE PROJECTION:

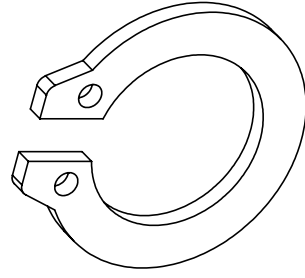


AJITATOR SHAFT
 N.B: MODEL IS SYMMETRY.
 NOT A COMPLETE DRAWING.
 ONLY RIGHT SIDE VIEW AND
 SECTION VIEW DIMENSIONS
 HAS SHOWN IN THIS SHEET.


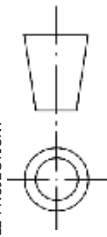


DWG NO: ASSM_AS_049_A4
 SHEET NO-050
 SCALE- 1:4

NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

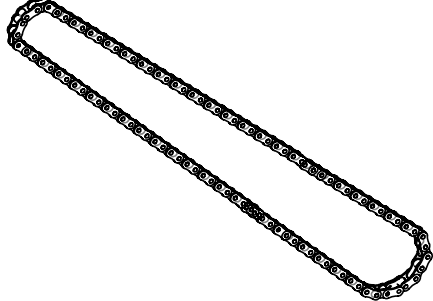



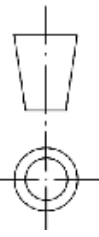
AJITATOR SHAFT SPROCKET OUTER CIRCLIP LOCK
DIMENTION OD18 X IN 12 X W1.3

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	
				TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS: NAME: M D. SHAFIQUL ISLAM DRAWN: M S I DATE: 20/FEB/2024		SIGNATURE: M S I		DRG. NAME: AJITATOR CIRCLIP LOCK		WEIGHT: 30 g A4	
CHKD: DR. MD. HOSHAARAF HOSSAIN APPVD: DR. AKM SAIFUL ISLAM DATE: 28/FEB/2024 DATE: 30/FEB/2024		SIGNATURE: M H I SIGNATURE: A S I		DWG NO: ASSM_ACL_051_A4		REVISION: A	
THIRD ANGLE PROJECTION:				OUTSOURCING: VENDOR		SHEET 051	

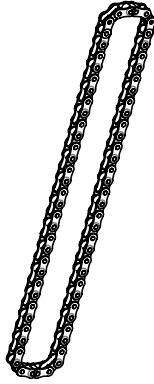
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED


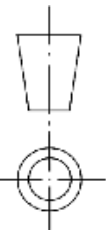
SUB POWER TO AJITATOR CHAIN
 CHAIN NO T30
 LENGTH-500 MM



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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	DRG. NAME: SUB POWER TO AJITATOR CHAIN			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024	DWG NO: ASSM_SPAC_052_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	OUTSOURCING: VENDOR			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED							
MATERIAL: AISI 1010 STEEL		WEIGHT: 195.80 g		SHEET 052		REVISION: A	
SCALE: 1:2						A	

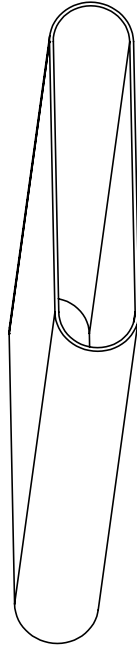
SUB POWER TO SUB POWER SHAFT CHAIN
 CHAIN NO T30
 LENGTH-675 MM
 QUANTITY-5


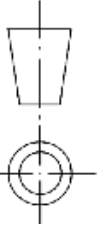


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE			BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
			SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS	NAME	SIGNATURE	DATE		
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024		
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024		
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024		
THIRD ANGLE PROJECTION:					
			TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: SUB POWER TO SUB POWER SHAFT CHAIN DWG NO: ASSM_SPSPC_053_A4 OUTSOURCING: VENDOR MATERIAL: AISI 1010 STEEL SCALE: 1:2 WEIGHT: 252.15 g SHEET 053 REVISION: A		

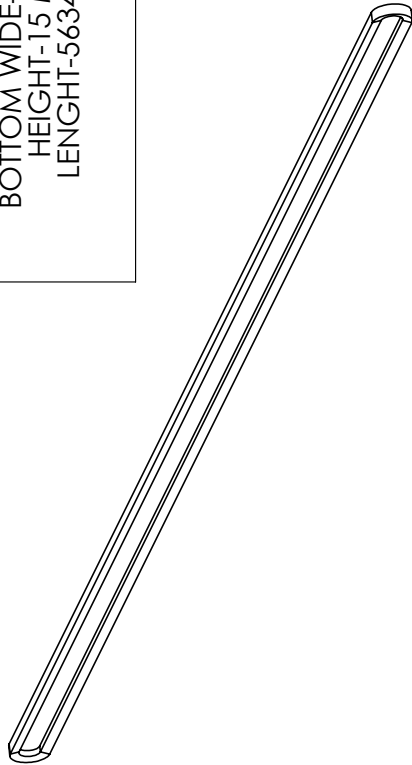
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED


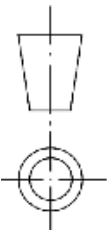
SOIL CONVEYOR FLAT BELT
 LENGHT-635MM
 WIDE-310 MM
 THICKNESS-3 MM



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 MD. SHAFIQUL ISLAM DR. MD. HOSHAARAF HOSSAIN DR. AKM SAIFUL ISLAM		SIGNATURE M S I M M H A S I		FINISH: NONE
DRAWN M S I M M H A S I		DATE 20FEB,2024 25FEB,2024 30FEB,2024		FIRST ISSUED: 8 FEB 2024
CHKD DR. MD. HOSHAARAF HOSSAIN DR. AKM SAIFUL ISLAM		TITLE: BRRI AUTO SEED SOWER MACHINE		
APPVD DR. AKM SAIFUL ISLAM		DRG. NAME: SOIL CONVEYOR FLAT BELT		
THIRD ANGLE PROJECTION: 		DWG NO: ASSM_SCFB_054_A4		
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED		OUTSOURCING: VENDOR		
		MATERIAL: RUBBER		WEIGHT: 1244.53 g
		SCALE: 1:2		REVISION: A
		SHEET 054		

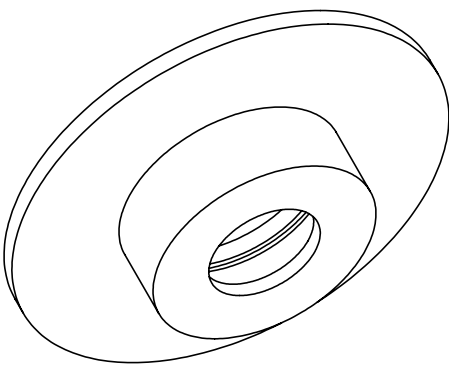
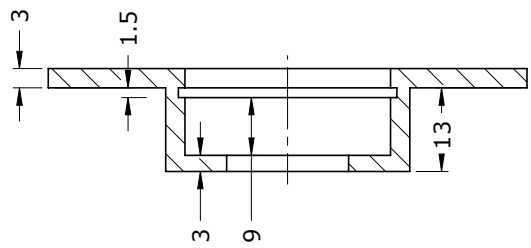
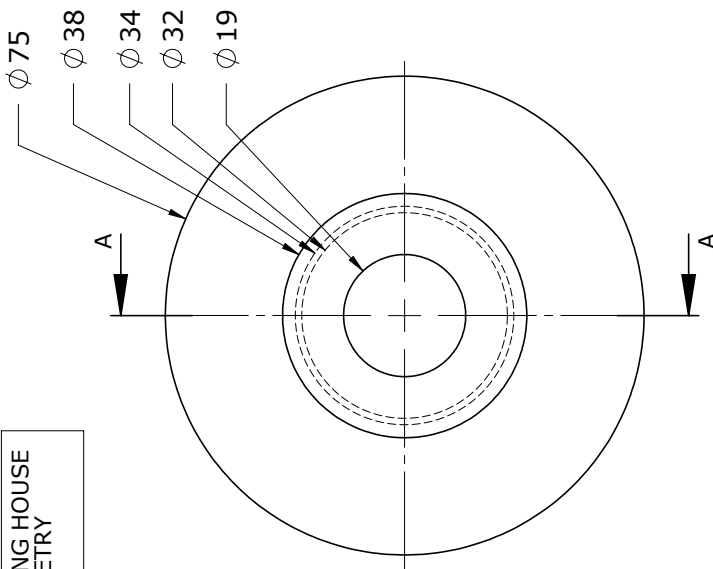
POWER TRANSMISSION V-BELT
 TOP WIDE-18 MM
 BOTTOM WIDE-10 MM
 HEIGHT-15 MM
 LENGHT-5634 MM




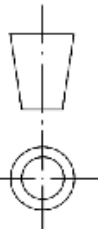
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: POWER TRANSMISSION V-BELT		
		DWG NO: ASSM_PTVB_055_A4		
		OUTSOURCING: VENDOR		
		MATERIAL: RUBBER		
		SCALE: 1:10		
		SHEET 055		
		WEIGHT: 2634.53 g		
		REVISION: A		

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

AJITATOR BEARING HOUSE
MODEL IS SYMMETRY
QUANTITY-2




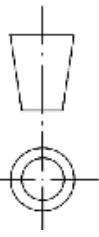
SECTION A-A
SCALE 1 : 1

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
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:				
		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: AJITATOR BEARING HOUSE		
		DWG NO: ASSM_AC_056_A4		
		MANUFACTURING METHOD: MACHINING		
		MATERIAL: PLAIN CARBON STEEL	WEIGHT: 126.38 g	A4
		SCALE: 1:1	SHEET 056	REVISION: A

NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

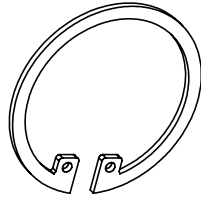



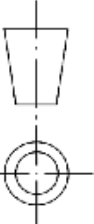
AJITATOR SHAFT BEARING
BEARING NO-6002 DIMENTION
OD32 X IN15 X W9

<small>UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE</small>		BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
		SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS	NAME	SIGNATURE	DATE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	
APPR'D	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:				
		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: AJITATOR BEARING DWG NO: ASSM_AB_057_A4 OUTSOURCING: VENDOR MATERIAL: STAINLESS STEEL(FERRITIC) WEIGHT: 120 g SCALE: 2:1 SHEET 057 REVISION: A		

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

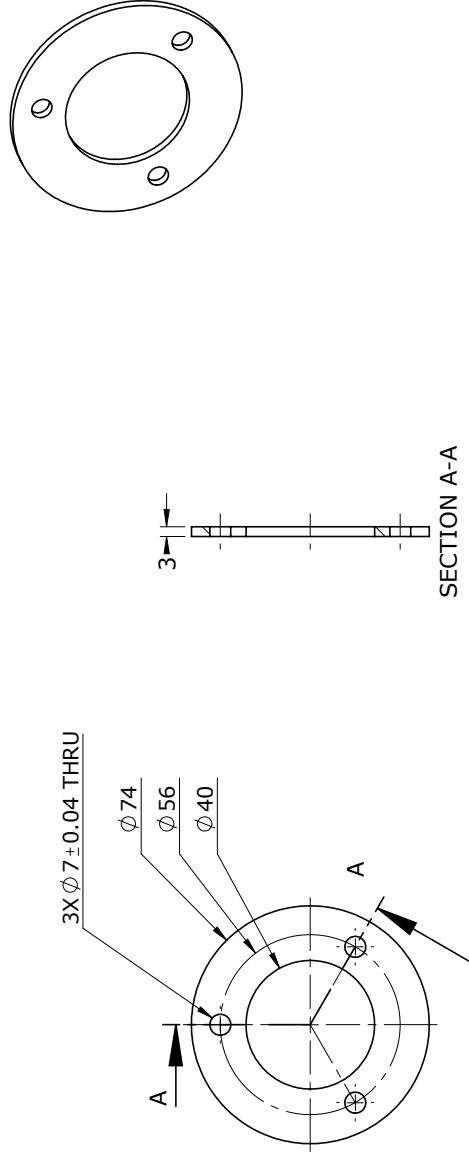
AJTATOR BEARING INNER CIRCLIP LOCK
 APPROX DIMENTION OD33 X IN 28 X WI.3
 QUANTITY-2


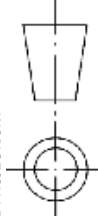


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
TITLE: BRRI AUTO SEED SOWER MACHINE				
DRG. NAME: AJTATOR BEARING CIRCLIP LOCK				
DWG NO: ASSM_ABCL_058_A4				
THIRD ANGLE PROJECTION:				
		OUTSOURCING: VENDOR		
		MATERIAL: AISI 1010		WEIGHT: 30 g
		SCALE: 1:1		SHEET 058
				REVISION: A

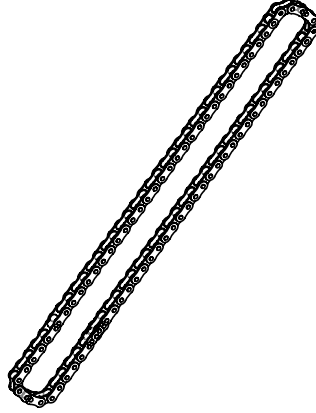
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

AJITATOR COVER
MODEL IS SYMMETRY
QUANTITY-2


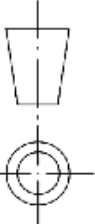


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS DRAWN M D. SHAFIQUL ISLAM CHK'D DR. MD. HOSHAARAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM		SIGNATURE M S I M P H A S I		FINISH: NONE
DATE 20/FEB/2024 25/FEB/2024 30/FEB/2024		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: AJITATOR COVER DWG NO: ASSM_AC_059_A4		FIRST ISSUED: 8 FEB 2024
THIRD ANGLE PROJECTION: 		MANUFACTURING METHOD: MACHINING MATERIAL: PLAIN CARBON STEEL SCALE: 1:1 SHEET 059		WEIGHT: 69.35 g
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				REVISION: A

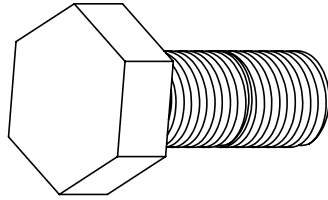
SUB POWER TO CONVEYOR ROLLER SHAFT CHAIN
 CHAIN NO T30
 LENGTH-775 MM




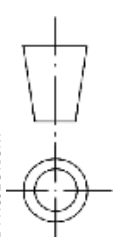
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

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
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:				
		TITLE: BRRI AUTO SEED SOWER MACHINE		
DRG. NAME: SUB POWER TO CONVEYOR ROLLER SHAFT CHAIN				
DWG NO: ASSM_SPCRSC_060_A4				
OUTSOURCING: VENDOR				
MATERIAL: AISI 1010 STEEL			WEIGHT: 332.48 g	A4
SCALE: 1:5			SHEET 060	REVISION: A

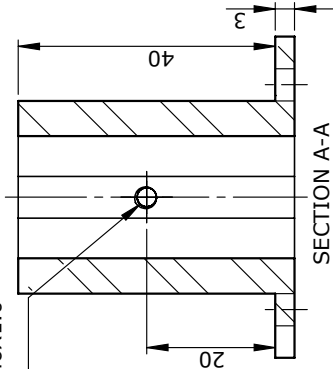
PULLY LOCK HEXAGONAL SCREW $\phi 8 \pm 0.04$
 MATRIX THREAD M8X1.25
 LENGHT-18 MM



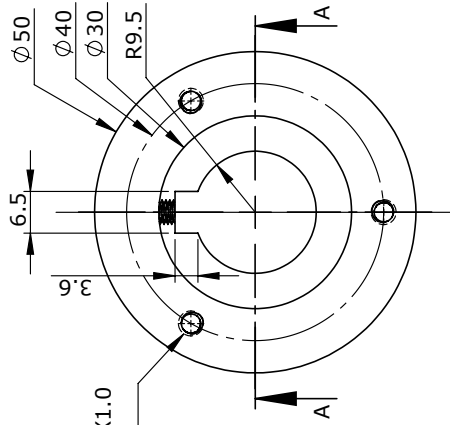
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

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	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB/2024	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: PULLY LOCK HEXAGONAL SCREW		
		DWG NO: ASSM_PLHS_061_A4		
		OUTSOURCING: VENDOR		
		MATERIAL: AISI 1010 STEEL		WEIGHT: 43.20 g
		SCALE: 3:1		REVISION: A
		SHEET 061		

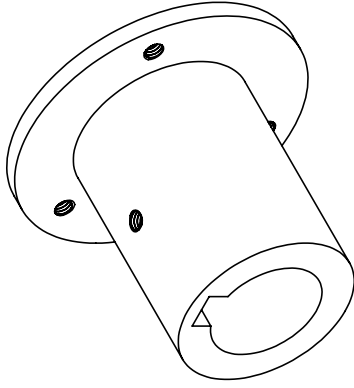
MATRIX THREAD M6X1.0
 $\phi 6 \pm 0.036 \nabla 2.5$



SECTION A-A



MATRIX THREAD M6X1.0
 3X $\phi 6 \pm 0.036$ THRU



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: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB,2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB,2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB,2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: MOTOR TO GEAR BOX COUPLING FLANGE-1

DWG NO: ASSM_MGCF_062_A4

MANUFACTURING METHOD: MACHINING

MATERIAL: PLAIN CARBON STEEL

WEIGHT: 164.68 g

A4

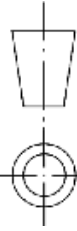
SCALE: 1:1

SHEET 062

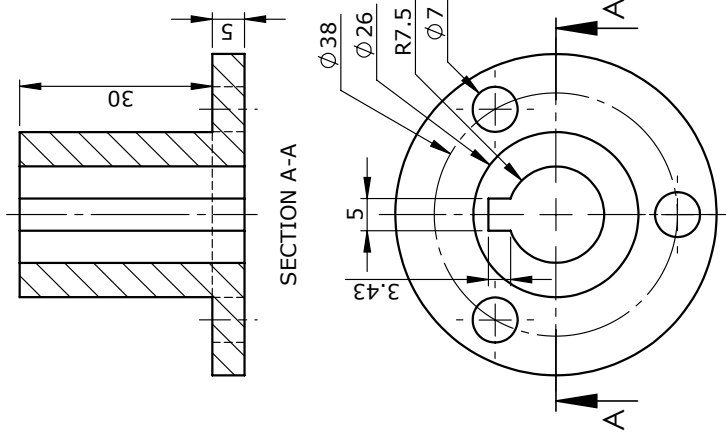
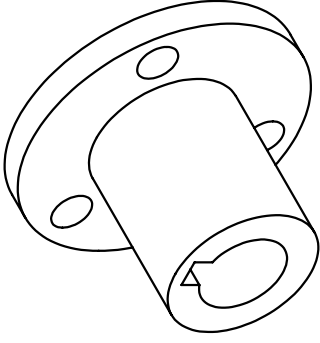
REVISION:


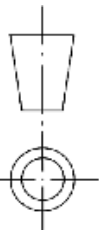
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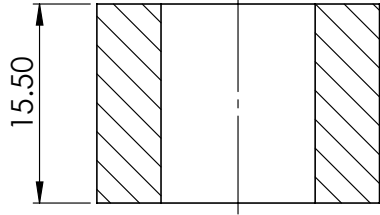
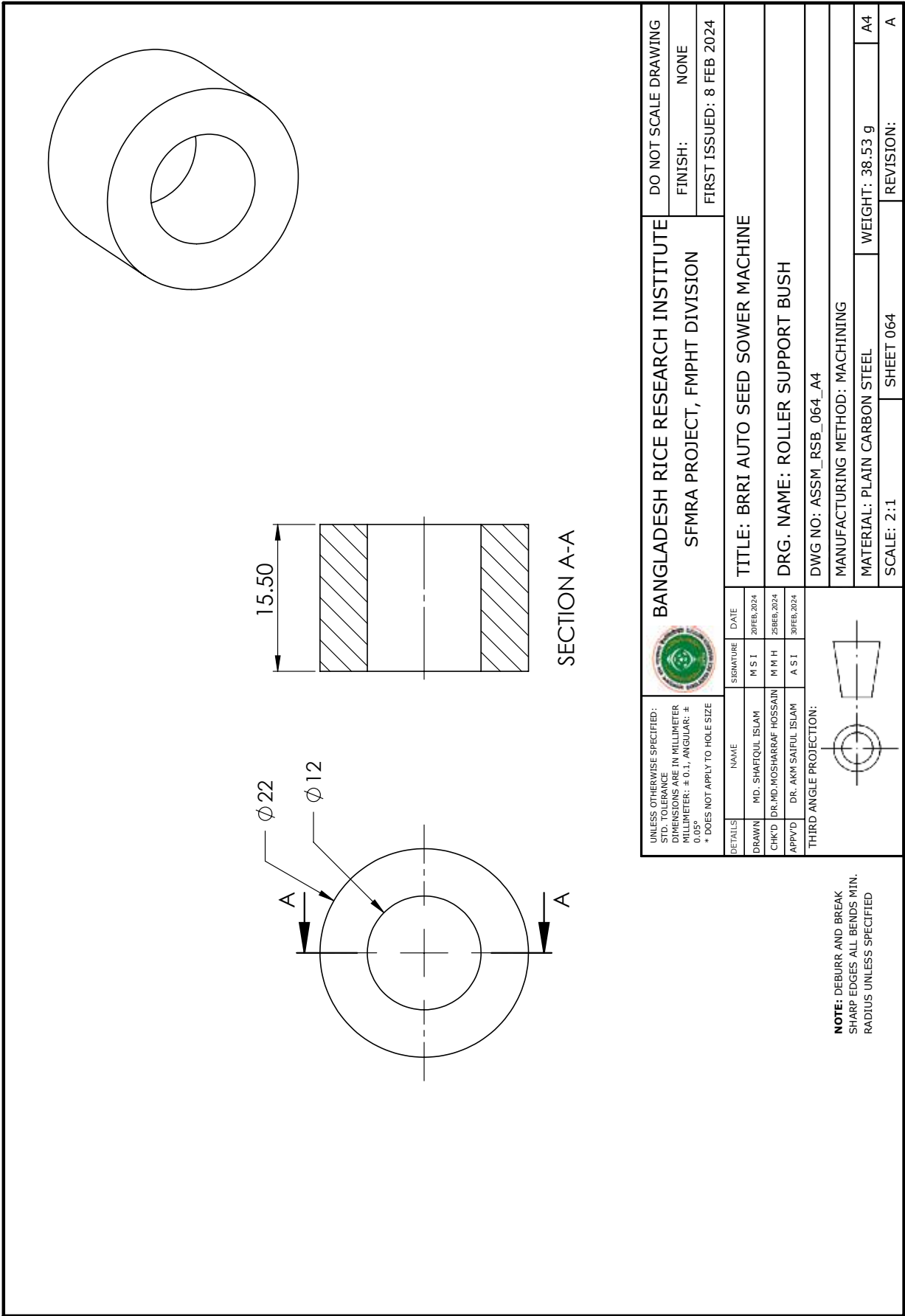
THIRD ANGLE PROJECTION:



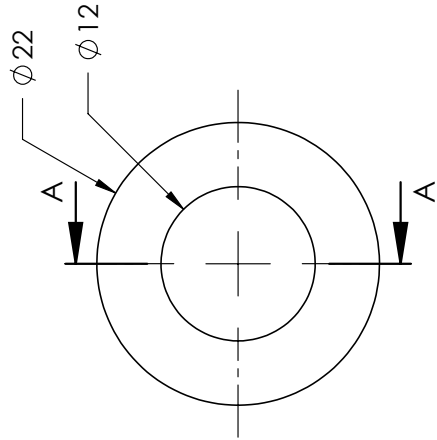
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED




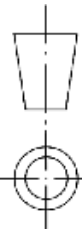
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE
NAME	SIGNATURE	DATE	FIRST ISSUED: 8 FEB 2024	
MD. SHAFIQUL ISLAM	M S I	20/FEB/2024		
CHK'D DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DRG. NAME: MOTOR TO GEAR BOX COUPLING FLANGE-2	
APP'VD DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	DWG NO: ASSM_MGCF_063_A4	
THIRD ANGLE PROJECTION:				
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED		MANUFACTURING METHOD: MACHINING MATERIAL: PLAIN CARBON STEEL WEIGHT: 166.08 g SCALE: 1:1 SHEET 063 REVISION: A		



SECTION A-A


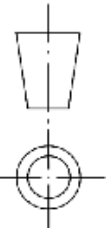


NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

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: BRI AUTO SEED SOWER MACHINE		
DRAWN	MD. SHAFIQUL ISLAM	M S I	20 FEB, 2024	DRG. NAME: ROLLER SUPPORT BUSH		
CHKD	DR. MD. HOSHARRAF HOSSAIN	M M H	25 FEB, 2024	DWG NO: ASSM_RSB_064_A4		
APPVD	DR. AKM SAIFUL ISLAM	A S I	30 FEB, 2024	MANUFACTURING METHOD: MACHINING		
THIRD ANGLE PROJECTION: 				MATERIAL: PLAIN CARBON STEEL		
				SCALE: 2:1		
				WEIGHT: 38.53 g		
				SHEET 064		
				REVISION: A		

INNER CIRCLIP LOCK FOR MANUAL SEED SOWER BEARING
 APPROX DIMENTION OD30 X IN 23 X W1.3
 QUANTITYT-2


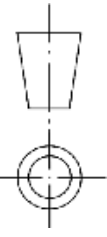


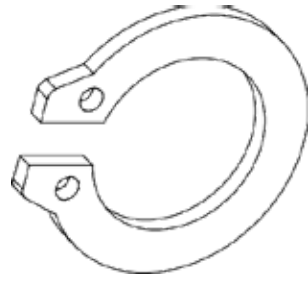
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB,2024	DRG. NAME: BEARING CIRCLIP LOCK		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB,2024	DWG NO: ASSM_BCL_065_A4		WEIGHT: 30 g	
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB,2024	FINDING METHOD: SHOP		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 065	
				SCALE: 1:1		REVISION:	

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED


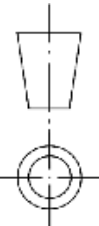


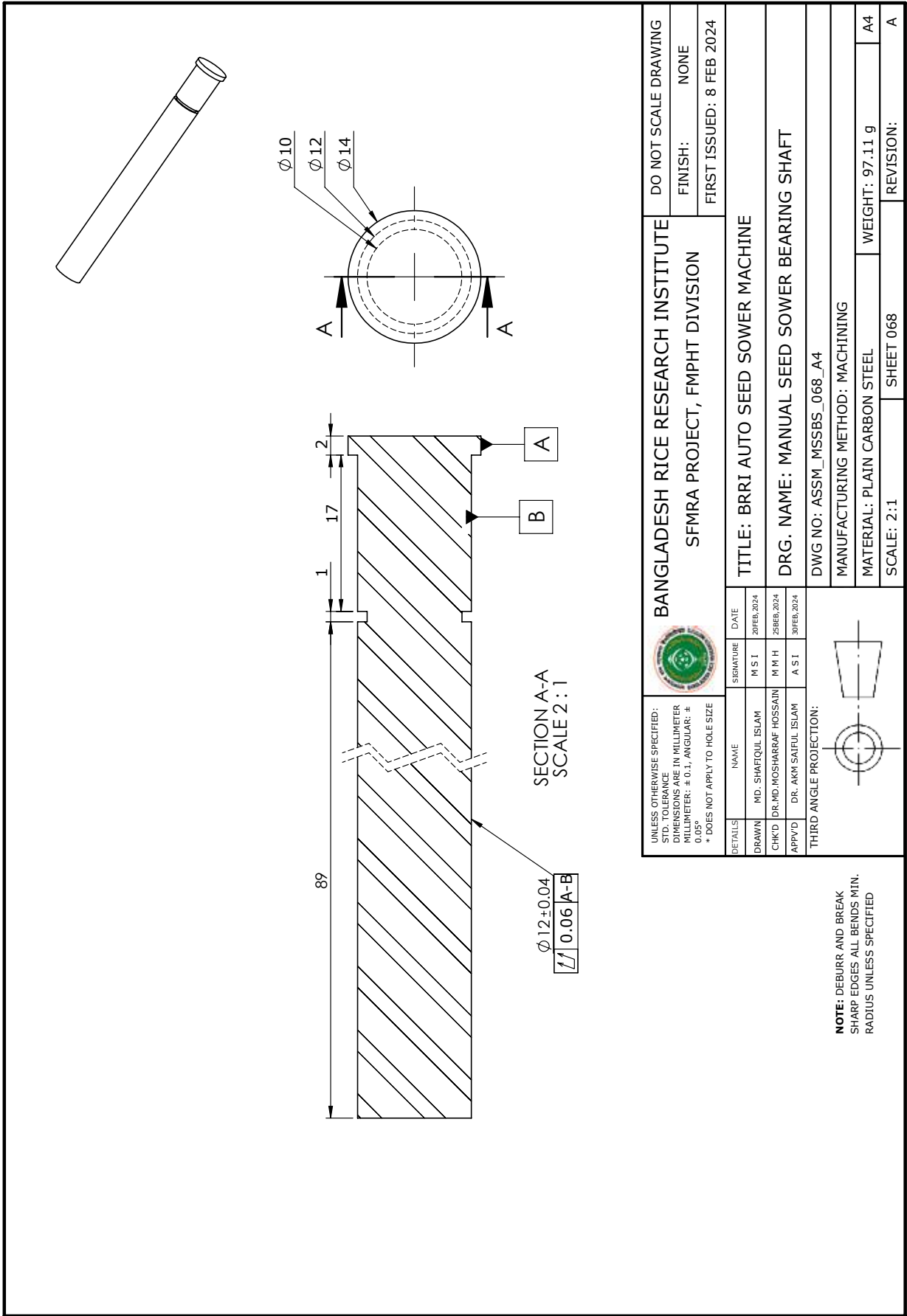
BEARING FOR MANUAL SEED SOWER
 BEARING NO-6001 DIMENTION OD28 X
 ID12 X W8


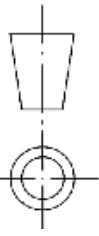
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB,2024	DRG. NAME: BEARING FOR MANUAL SEED SOWER		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB,2024	DWG NO: ASSM_BMSS_066_A4		REVISION: A	
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB,2024	FINDING METHOD: SHOP		WEIGHT: 220 g	
THIRD ANGLE PROJECTION:						SCALE: 2:1	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: STAINLESS STEEL(FERRITIC)		SHEET 066	

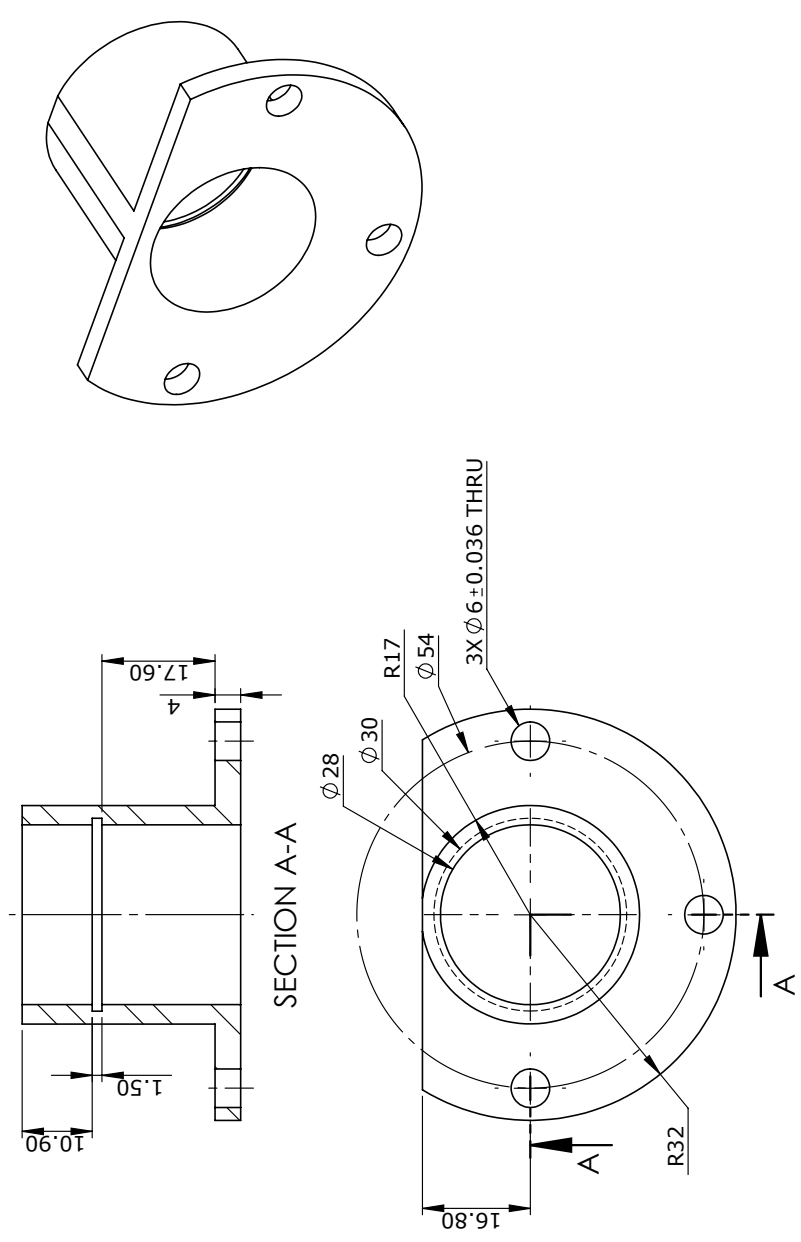






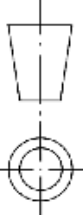
OUTER CIRCLIP LOCK FOR MSS BEARING.
DIMENSION OD13 X IN 9 X W1.3

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	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB,2024	DRG. NAME: OUT CIRCLIP LOCK FOR MSS BEARING.		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB,2024	DWG NO: ASSM_UCMSS_067_A4		WEIGHT: 30 g	
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB,2024	FINDING METHOD: SHOP		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 067	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: AISI 1010		SCALE: 5:2	

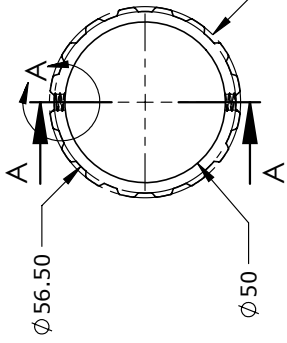
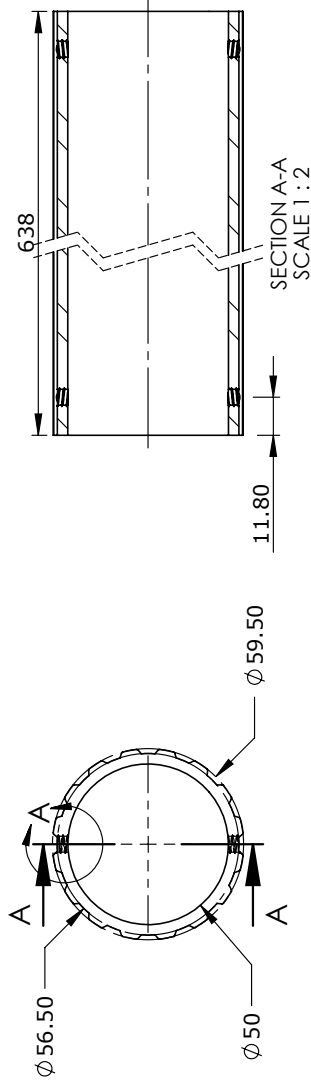
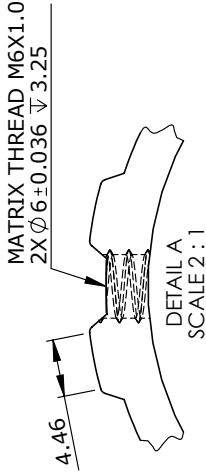
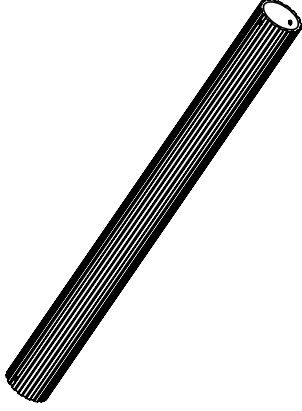






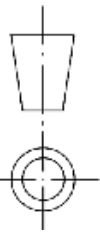
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMR PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: MANUAL SEED SOWER BEARING SHAFT			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_MSSBS_068_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLAIN CARBON STEEL WEIGHT: 97.11 g SCALE: 2:1 SHEET 068 REVISION: A			



		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 AUTO SEED SOWER MACHINE DRG. NAME: BEARING HOUSE FOR MANUAL SEED SOWER DWG NO: ASSM_BHMSS_069_A4		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS	NAME	SIGNATURE	DATE	
DRAWN	MD. SHAFIQUL ISLAM		20/FEB/2024	
CHK'D	DR. MD. MOHAMMAD HOSSAIN		25/FEB/2024	
APP'VD	DR. AKM SAIFUL ISLAM		30/FEB/2024	
THIRD ANGLE PROJECTION:				
				
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				
MATERIAL: PLAIN CARBON STEEL		MANUFACTURING METHOD: MACHINING		
SCALE: 1:1		SHEET 069		WEIGHT: 128.54 g REVISION: A

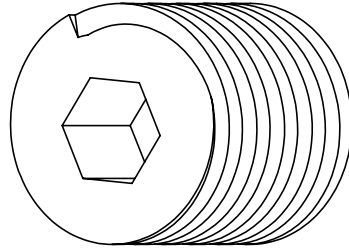
MODEL IS SYMMETRY
 QUANTITY-4
 TEETH NO-15


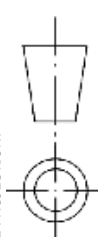


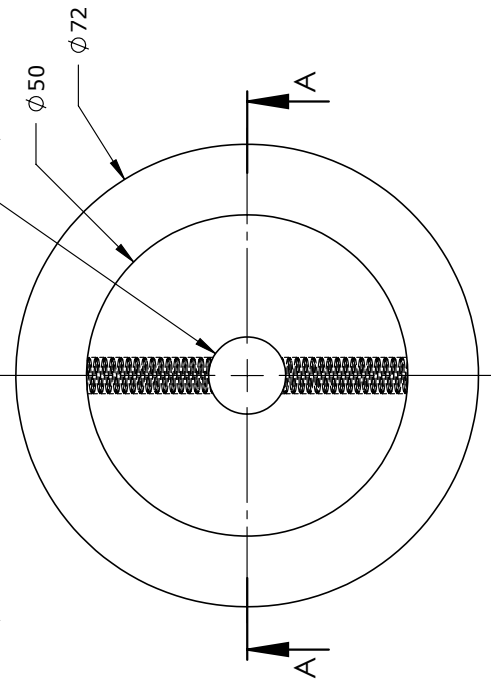
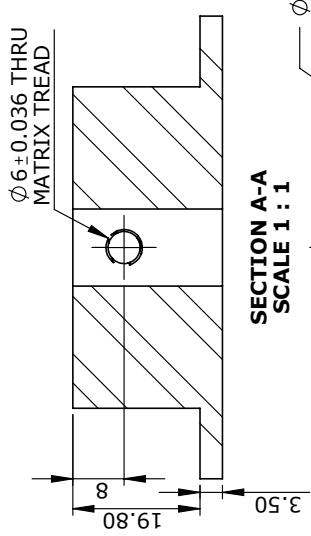
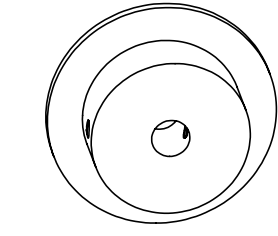
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPT DIVISION		DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: CONVEYOR ROLLER HOUSE DWG NO: ASSM_CRH_070_A4 MANUFACTURING METHOD: MACHINING MATERIAL: PLAIN CARBON STEEL SCALE: 1:1	FINISH: NONE FIRST ISSUED: 8 FEB 2024	WEIGHT: 3437.87 g REVISION: A
DETAILS	NAME	SIGNATURE	DATE	SHEET 070
DRAWN	MD. SHAFIQUL ISLAM		28/FEB,2024	A4
CHKD	DR. MD. MOSHARRAF HOSSAIN		29/FEB,2024	A4
APPVD	DR. AKM SAIFUL ISLAM		30/FEB,2024	A4
THIRD ANGLE PROJECTION: 				


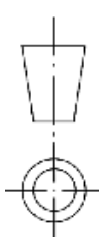
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

SPROCKET ALLEN KEY SCREW $\phi 6 \pm 0.04$
 MATRIX THREAD M6X1.0
 LENGHT-19.25 MM

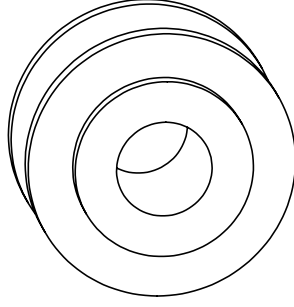
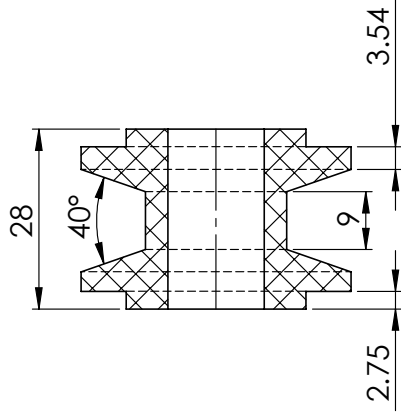
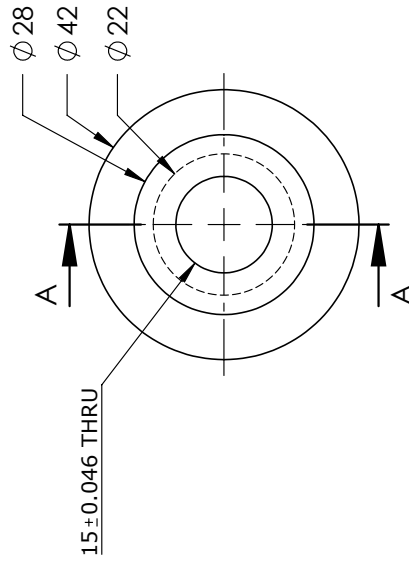


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE			BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
			SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: ROLLER ALLEN KEY LOCK SCREW	
CHKD	DR. MD. HOSHARAF HOSSAIN	M H H	25/FEB/2024	DWG NO: ASSM_RALS_071_A4	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	FINDING METHOD: SHOP	
THIRD ANGLE PROJECTION:					
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED			MATERIAL: AISI 1010 STEEL SCALE: 3:1 SHEET 071 REVISION: A		
			WEIGHT: 30.12 g		




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 SFMR PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: ROLLER COLLAR BUSH			
CHKD	DR. MD. HOSHAARAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_RCB_072_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING			
THIRD ANGLE PROJECTION: 				MATERIAL: PLAIN CARBON STEEL			
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				WEIGHT: 390.32 g			
				SCALE: 1:1			
				SHEET 072			
				REVISION: A			

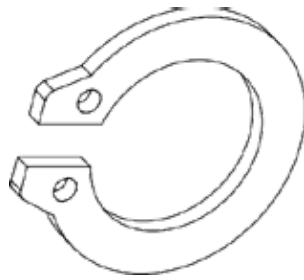
MODEL IS SYMMETRY




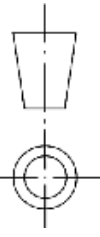
SECTION A-A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

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	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: SUB POWER SHAFT PULLY DWG NO: ASSM_SPSP_073_A4 MANUFACTURING METHOD: MACHINING MATERIAL: NYLON SCALE: 1:1 SHEET 073 WEIGHT: 22.39 g REVISION: A		

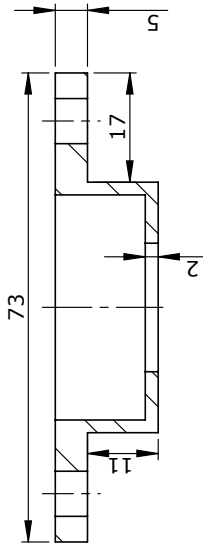


SUB POWER SHAFT CIRCLIP LOCK
DIMENSION OD14 X IN 8 X W1.3

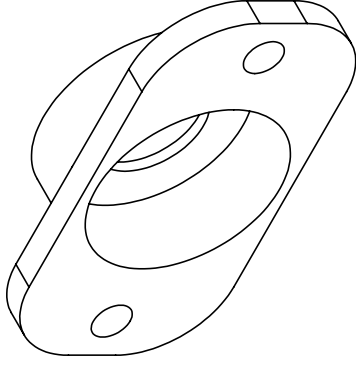
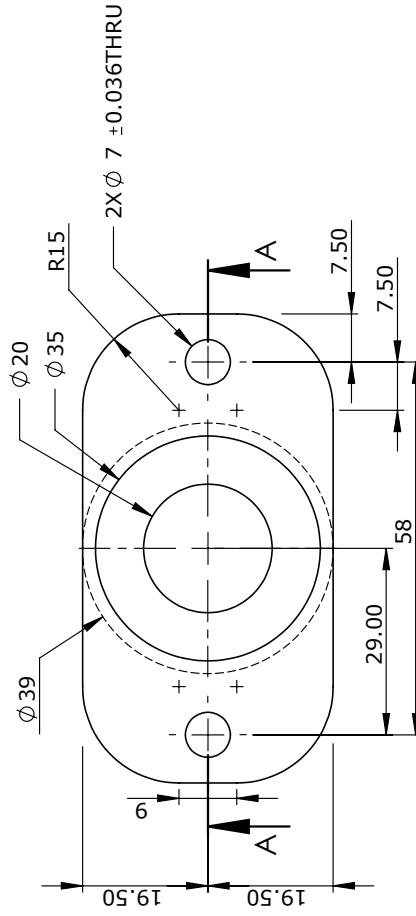
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMPRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: SUB POWER SHAFT CIRCLIP LOCK			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	20/FEB/2024	DWG NO: ASSM_BPSC_074_A4			
APV'D	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	FINDING METHOD: SHOP			
THIRD ANGLE PROJECTION:				MATERIAL: AISI 1010			
				SCALE: 5:2			
				SHEET 074			
				WEIGHT: 20 g			
				REVISION: A			


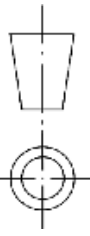
NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY



SECTION A-A


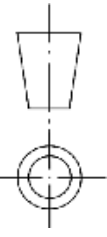


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS		NAME	SIGNATURE	DATE	FINISH: NONE		
DRAWN	MD. SHAFIQUL ISLAM	M S I		20/FEB/2024	FIRST ISSUED: 8 FEB 2024		
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H		25/FEB/2024			
APP'VD	DR. AKM SAIFUL ISLAM	A S I		30/FEB/2024			
THIRD ANGLE PROJECTION:				TITLE: BRRI AUTO SEED SOWER MACHINE			
				DRG. NAME: SUB POWER SHAFT BEARING COVER			
				DWG NO: ASSM_SPSBC_075_A4			
				MANUFACTURING METHOD: MACHINING, WELDING			
				MATERIAL: PLAIN CARBON STEEL		WEIGHT: 93.03 g	
				SCALE: 1:1		SHEET 075	
						REVISION: A	

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED


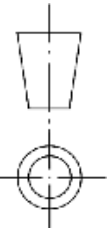


SUB POWER SHAFT BEARING
 BEARING NO-6202
 DIMENTION OD35 X IN15 X W11

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 AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB, 2024	DRG. NAME: SUB POWER SHAFT BEARING		FIRST ISSUED: 8 FEB 2024	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB, 2024	DWG NO: ASSM_AB_057_A4		WEIGHT: 120 g	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB, 2024	OUTSOURCING : VENDOR		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 076	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: STAINLESS STEEL(FERRITIC)		SCALE: 2:1	


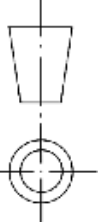
GEAR BOX
 RATIO- 1:20
 OVER ALL LENGHT 145MM
 WIDE-130MM, HEIGHT-190MM



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 AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB,2024	DRG. NAME: GEAR BOX		FIRST ISSUED: 8 FEB 2024	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB,2024	DWG NO: ASSM_GB_077_A4		WEIGHT: 16387.98 g	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB,2024	OUTSOURCING : VENDOR		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 077	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				SCALE: 1:5		A4	

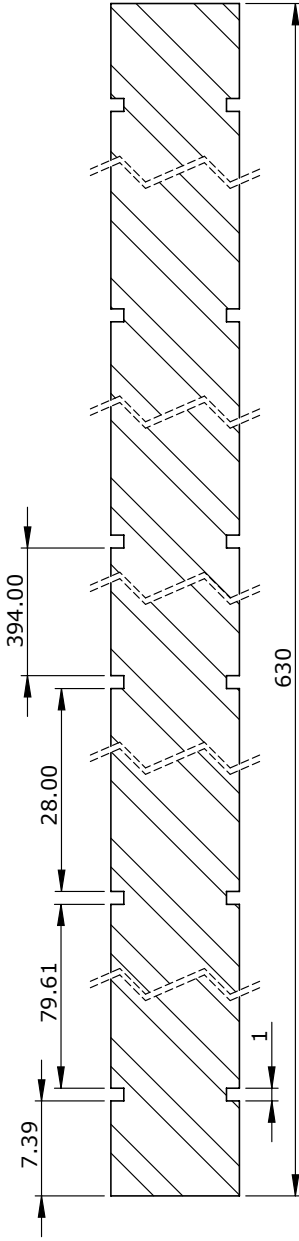
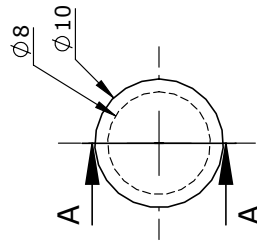


MOTOR
 HORSEPOWER - 0.5 Hp
 PHASE VOLTAGE- 220 VOLT
 ROTOR SPEED- 1400 rpm .

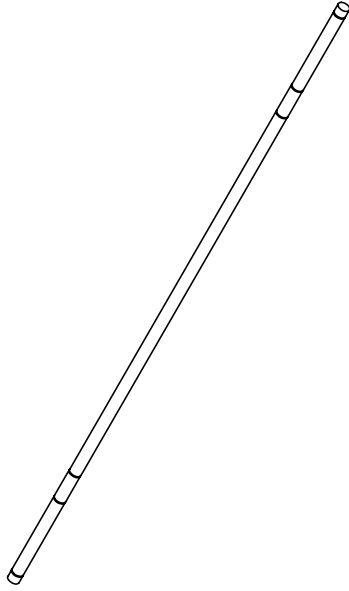
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING	
TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: MOTOR DWG NO: ASSM_MTR_078_A4 OUTSOURCING: VENDOR WEIGHT: 32285.90 g SCALE: 1:5 SHEET 078 REVISION: A				FINISH: NONE FIRST ISSUED: 8 FEB 2024			
DETAIL	NAME	SIGNATURE	DATE				
DRAWN	MD. SHAFIQUL ISLAM	M S I	26FEB,2024				
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25BEB, 2024				
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024				
THIRD ANGLE PROJECTION:							


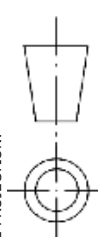
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY



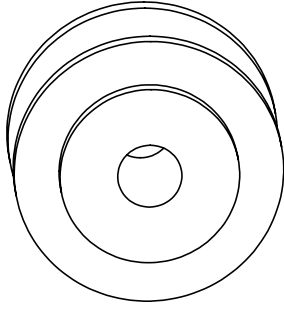
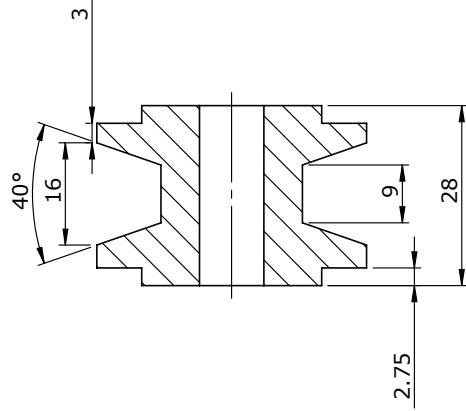
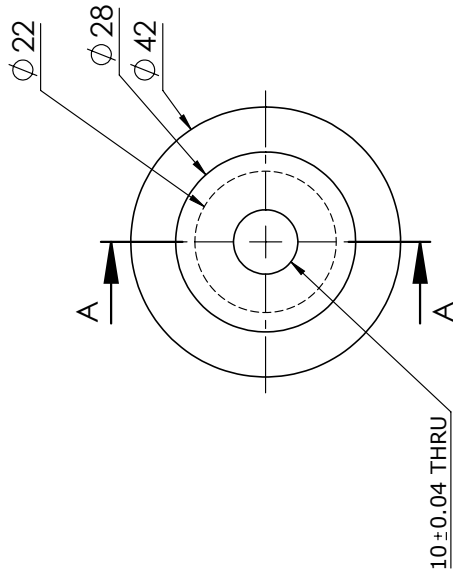
SECTION A-A
SCALE 2 : 1




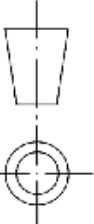
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I		20/FEB/2024
CHK'D	DR. MD. HOSHARAF HOSSAIN	M M H		25/FEB/2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I		30/FEB/2024
THIRD ANGLE PROJECTION:				
TITLE: BRRI AUTO SEED SOWER MACHINE		DRG. NAME: IDLE SHAFT-1		
DWG NO: ASSM_IDST_079_A4		MANUFACTURING METHOD: MACHINING		
MATERIAL: PLAIN CARBON STEEL		WEIGHT: 388.07 g		
SCALE: 1:2		SHEET 079		
REVISION:		A		

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

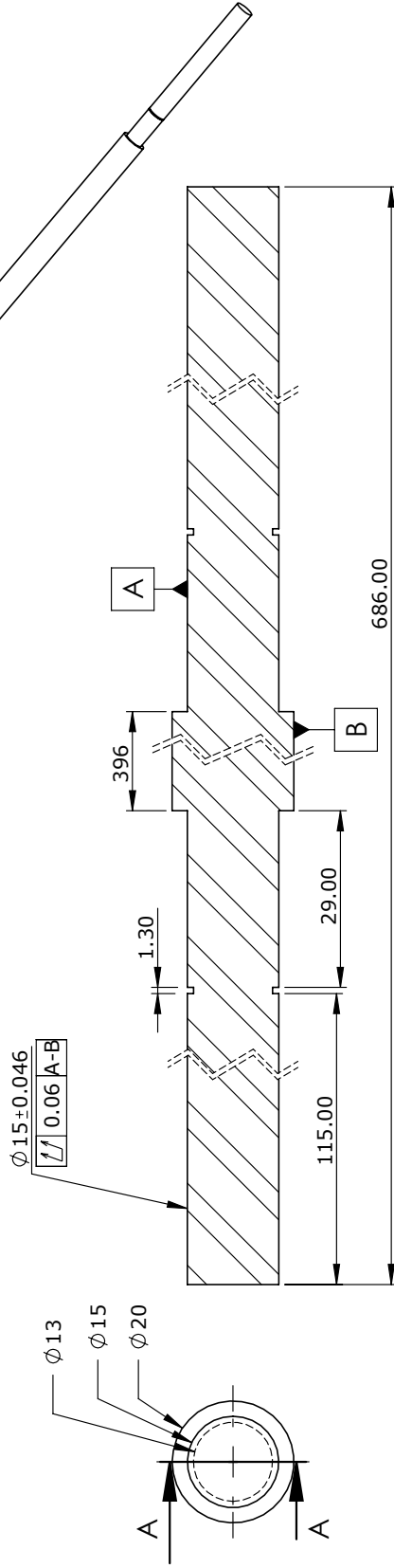
MODEL IS SYMMETRY



SECTION A-A

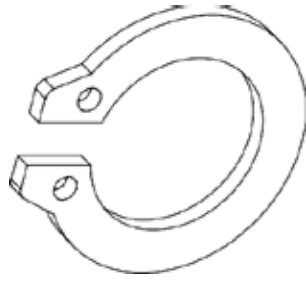
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS DRAWN MD. SHAFIQUL ISLAM M S I 20/FEB/2024 CHKD DR. MD. MOSHARRAF HOSSAIN M M H 25/FEB/2024 APPVD DR. AKW SAIFUL ISLAM A S I 30/FEB/2024		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: IDLE SHAFT PULLY DWG NO: ASSM_ISP_080_A4		FINISH: NONE FIRST ISSUED: 8 FEB 2024
THIRD ANGLE PROJECTION:				
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED		MANUFACTURING METHOD: MACHINING MATERIAL: NYLON SCALE: 1:1 SHEET 080		WEIGHT: 21.32 g A4 REVISION: A

MODEL IS SYMMETRY



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
DETAILS		TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	SIGNATURE	M S I	FIRST ISSUED: 8 FEB 2024
CHK'D	DR. MD. HOSHARAF HOSSAIN	DATE	20/FEB/2024	
APP'VD	DR. AKM SAIFUL ISLAM	M P H	30/FEB/2024	
THIRD ANGLE PROJECTION:		DRG. NAME: SUB POWER SHAFT		
		DWG NO: ASSM_SPS_081_A4		
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED		MANUFACTURING METHOD: MACHINING		
		MATERIAL: PLAIN CARBON STEEL		WEIGHT: 1.381.71 g
		SCALE: 1:1		REVISION: A
		SHEET 081		

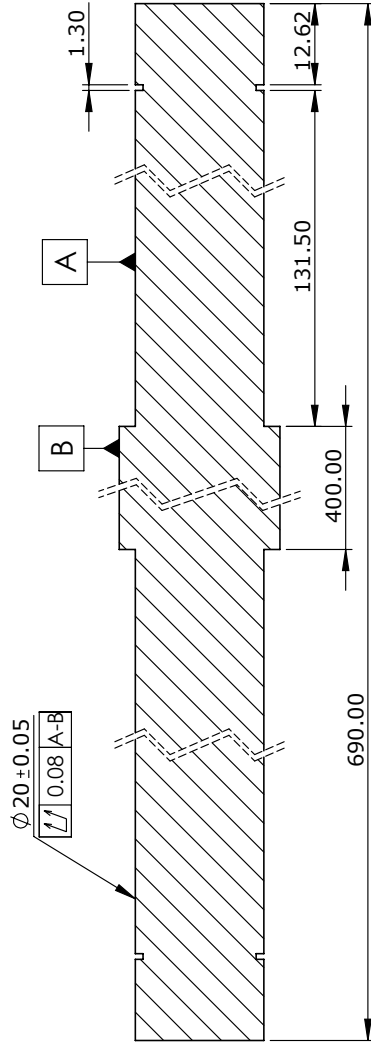
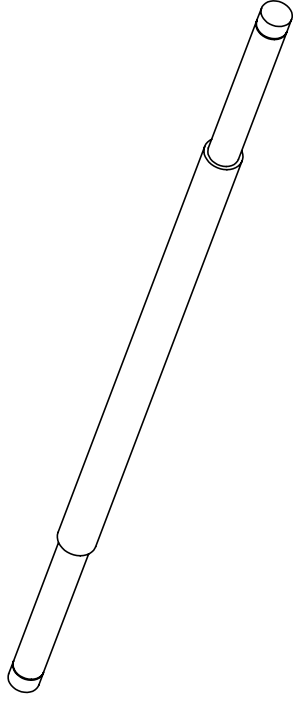
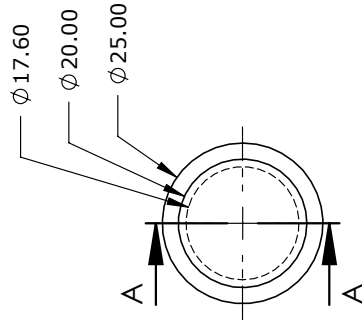


IDLE SHAFT CIRCLIP LOCK
DIMENSION OD14 X IN 8 X W1.3


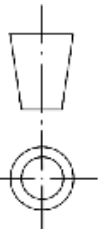
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				FINISH: NONE	
TITLE: BRRI AUTO SEED SOWER MACHINE		DRG. NAME: IDLE SHAFT CIRCLIP LOCK		FIRST ISSUED: 8 FEB 2024	
DWG NO: ASSM_JSC_082_A4		OUTSOURCING : VENDOR		WEIGHT: 20 g	
MATERIAL: AISI 1010		SCALE: 5:2		SHEET 082	
THIRD ANGLE PROJECTION:				REVISION: A	

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY

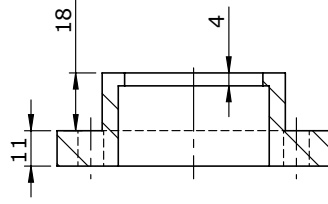
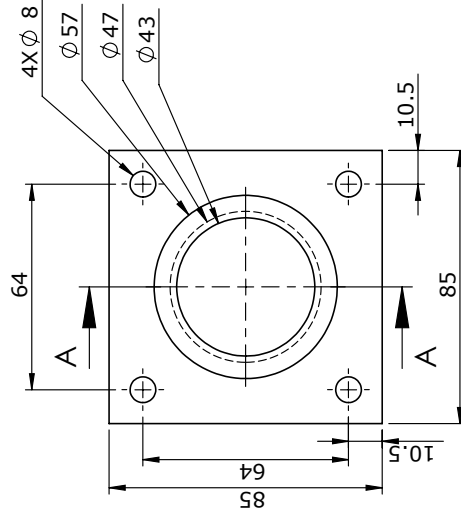


SECTION A-A
SCALE 1 : 1

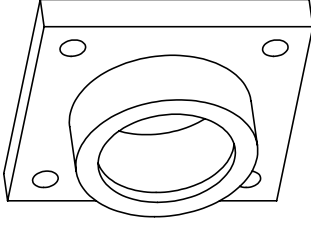
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: OPPOSITE POWER SHAFT DWG NO: ASSM_OPS_083_A4		FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: OPPOSITE POWER SHAFT DWG NO: ASSM_OPS_083_A4		FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	MANUFACTURING METHOD: MACHINING MATERIAL: PLAIN CARBON STEEL SCALE: 1:1		
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	SHEET 083 WEIGHT: 1410.71 g REVISION: A		
THIRD ANGLE PROJECTION:						

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY
UCF204 BEARING BLOCK
BEARING NO-6204




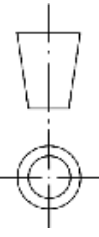
SECTION A-A
SCALE 1 : 2



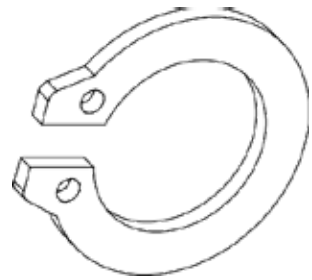
<p>UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE</p>				<p>BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION</p>		<p>DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024</p>	
DETAILS	NAME	SIGNATURE	DATE	<p>TITLE: BRRI AUTO SEED SOWER MACHINE</p>			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	<p>DRG. NAME: UCF204 BEARING BLOCK</p>			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024	<p>DWG NO: ASSM_UCF204_084_A4</p>			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	<p>OUTSOURCING : VENDOR</p>			
<p>THIRD ANGLE PROJECTION:</p>				<p>MATERIAL: CAST STEEL SCALE: 1:2</p>			
<p>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</p>				<p>SHEET 084</p>		<p>WEIGHT: 582.48 g A4</p>	
				<p>REVISION:</p>		<p>A</p>	




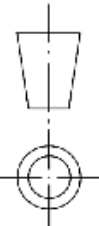
OPPOSITE POWER SHAFT BEARING
 BEARING NO-6204
 DIMENTION OD47 X IN20 X W14

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			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	26/FEB/2024	TITLE: BRRI AUTO SEED SOWER MACHINE			
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB/2024	DRG. NAME: OPPOSITE POWER SHAFT BEARING 6204			
THIRD ANGLE PROJECTION:							
			DWG NO: ASSM_OPSB_085_A4				
			OUTSOURCING : VENDOR				
			MATERIAL: STAINLESS STEEL(FERRITIC)		WEIGHT: 210 g		A4
			SCALE: 2:1		SHEET 085		REVISION: A

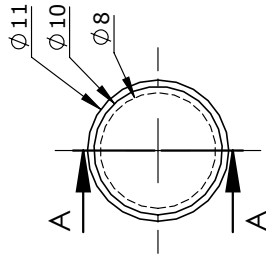
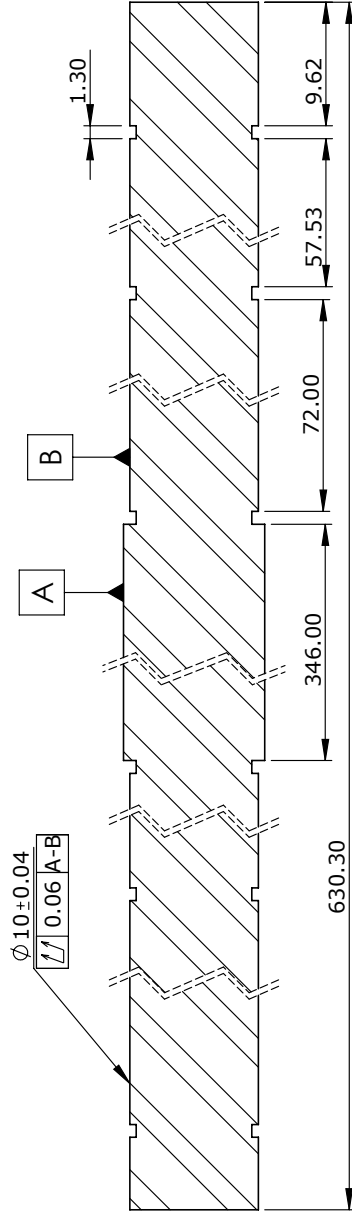
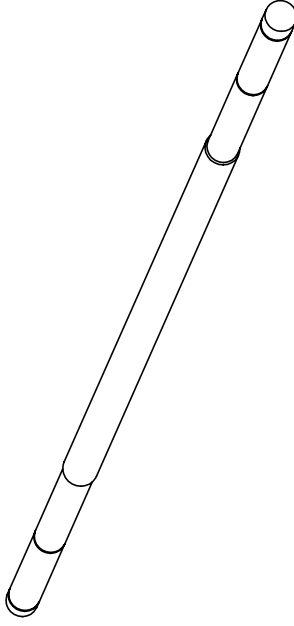
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED




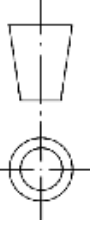
OPPOSITE POWER SHAFT CIRCLIP LOCK
DIMENSION OD24 X IN 18 X W1.3

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	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: OPPOSITE POWER SHAFT CIRCLIP LOCK		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	20/FEB/2024	DWG NO: ASSM_OPSC_086_A4		WEIGHT: 30 g	
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB/2024	OUTSOURCING : VENDOR		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 086	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: AISI 1010		SCALE: 5:2	

MODEL IS SYMMETRY




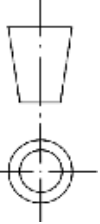
SECTION A-A
SCALE 2 : 1

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
DETAILS		NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	[Signature]	20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	[Signature]	25/FEB/2024
APPRD	DR. AKM SAIFUL ISLAM	A S I	[Signature]	30/FEB/2024
THIRD ANGLE PROJECTION:				
TITLE: BRRI AUTO SEED SOWER MACHINE				
DRG. NAME: IDLE SHAFT-2				
DWG NO: ASSM_IS2_087_A4				
MANUFACTURING METHOD: MACHINING				
MATERIAL: PLAIN CARBON STEEL			WEIGHT: 433.80 g	A4
SCALE: 2:1			SHEET 087	REVISION: A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

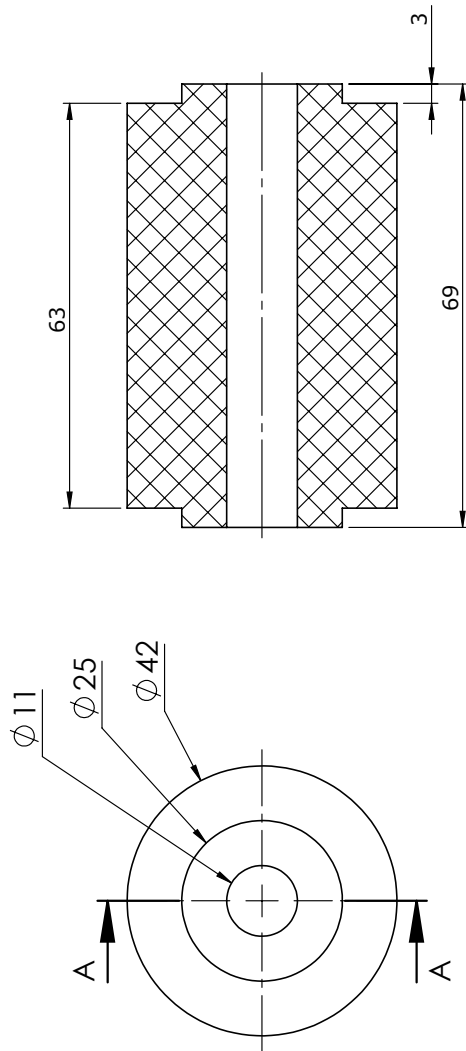
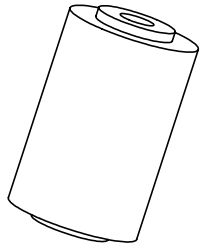
SUB POWER TO CONVEYOR ROLLER SHAFT CHAIN 2
 CHAIN NO T30
 LENGTH-615 MM
 QUANTITY-1




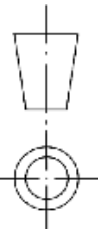
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ±				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
* DOES NOT APPLY TO HOLE SIZE						FINISH: NONE	
						FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	DRG. NAME: SUB POWER TO CONVEYOR ROLLER SHAFT CHAIN 2			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB, 2024	DWG NO: ASSM_SPCRSC_088_A4			
APP'VD	DR. AKM SAIRUL ISLAM	A S I	30FEB,2024	OUTSOURCING: VENDOR			
THIRD ANGLE PROJECTION:				MATERIAL: AISI 1010 STEEL			
				SCALE: 1:2			
				WEIGHT: 232.20 g			
				SHEET 088			
				REVISION: A			

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

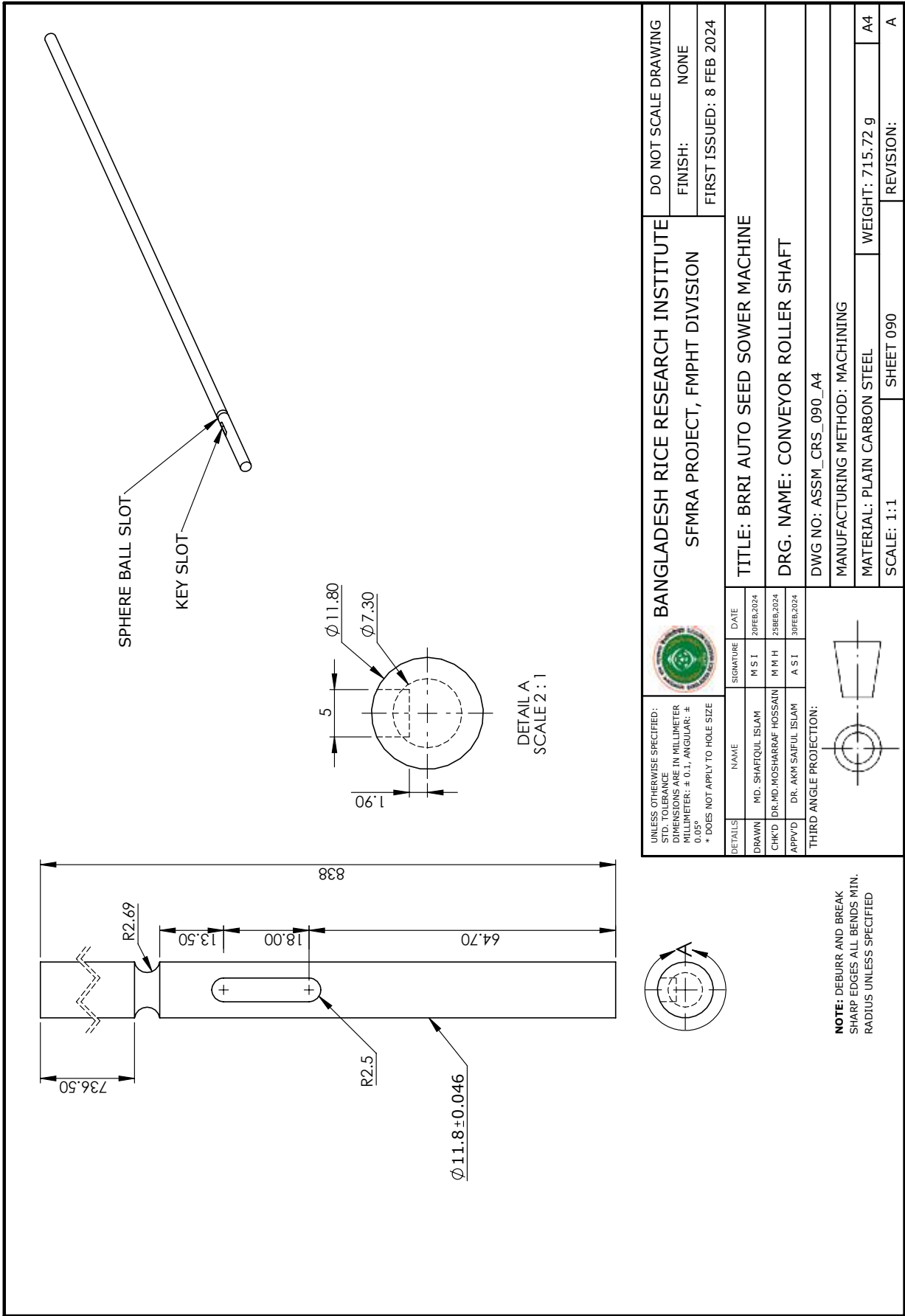
MODEL IS SYMMETRY



SECTION A-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		SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOHAMMAD HOSSAIN	M H H	25/FEB/2024	
APPRVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: IDLE SHAFT ROLLER		
		DWG NO: ASSM_ISR_089_A4		
		MANUFACTURING METHOD: MACHINING		
		MATERIAL: NYLON		WEIGHT: 96.22 g
		SCALE: 1:1		REVISION: A
		SHEET 089		


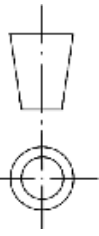

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED



SPHERE BALL SLOT


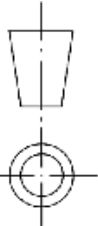
KEY SLOT

DETAIL A
SCALE 2:1

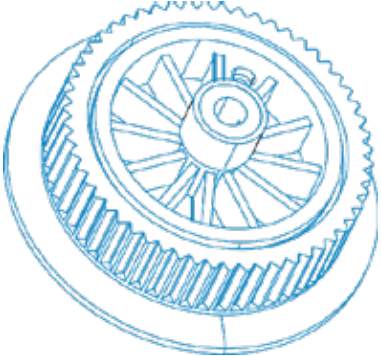
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	DRG. NAME: CONVEYOR ROLLER SHAFT			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024	DWG NO: ASSM_CRS_090_A4			
APPVD	DR. AKM SAJFUL ISLAM	A S I	30FEB,2024	MANUFACTURING METHOD: MACHINING			
THIRD ANGLE PROJECTION:				MATERIAL: PLAIN CARBON STEEL			
				SCALE: 1:1			
				SHEET 090			
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				WEIGHT: 715.72 g			
				REVISION: A			


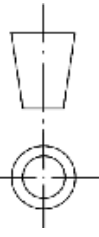
SUB POWER TO SEED SOWER MACHINE CHAIN
 CHAIN NO T30
 LENGTH-515 MM
 QUANTITY-1

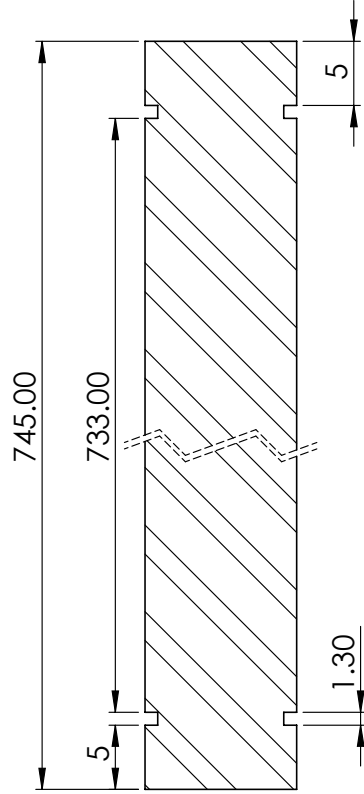
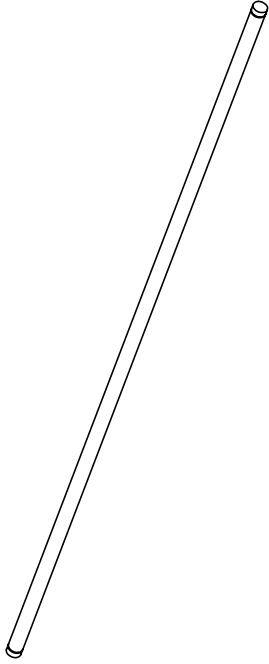


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAIL	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: SUB POWER TO SEED SOWER CHAIN			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	20/FEB/2024	DWG NO: ASSM_SPSSC_091_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	OUTSOURCING : VENDOR			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED							
				MATERIAL: AISI 1010 STEEL		WEIGHT: 282.15 g	
				SCALE: 1:4		SHEET 091	
				REVISION: A			

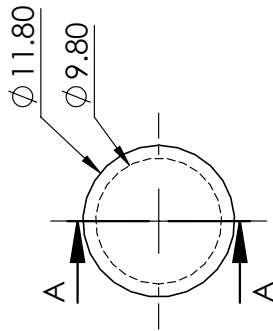
SEED SOWER DRIVE
WHEEL
OUT DIA-100 MM
IN DIA-10 MM




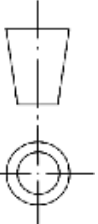
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAIL	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	26FEB,2024	DRG. NAME: SEED SOWER DRIVE WHEEL			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	26FEB,2024	DWG NO: ASSM_SSDW_092_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	OUTSOURCING : VENDOR			
THIRD ANGLE PROJECTION:				MATERIAL: PLASTIC			
				SCALE: 1:3			
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				SHEET 092			
				WEIGHT: 225.53 g			
				REVISION: A			

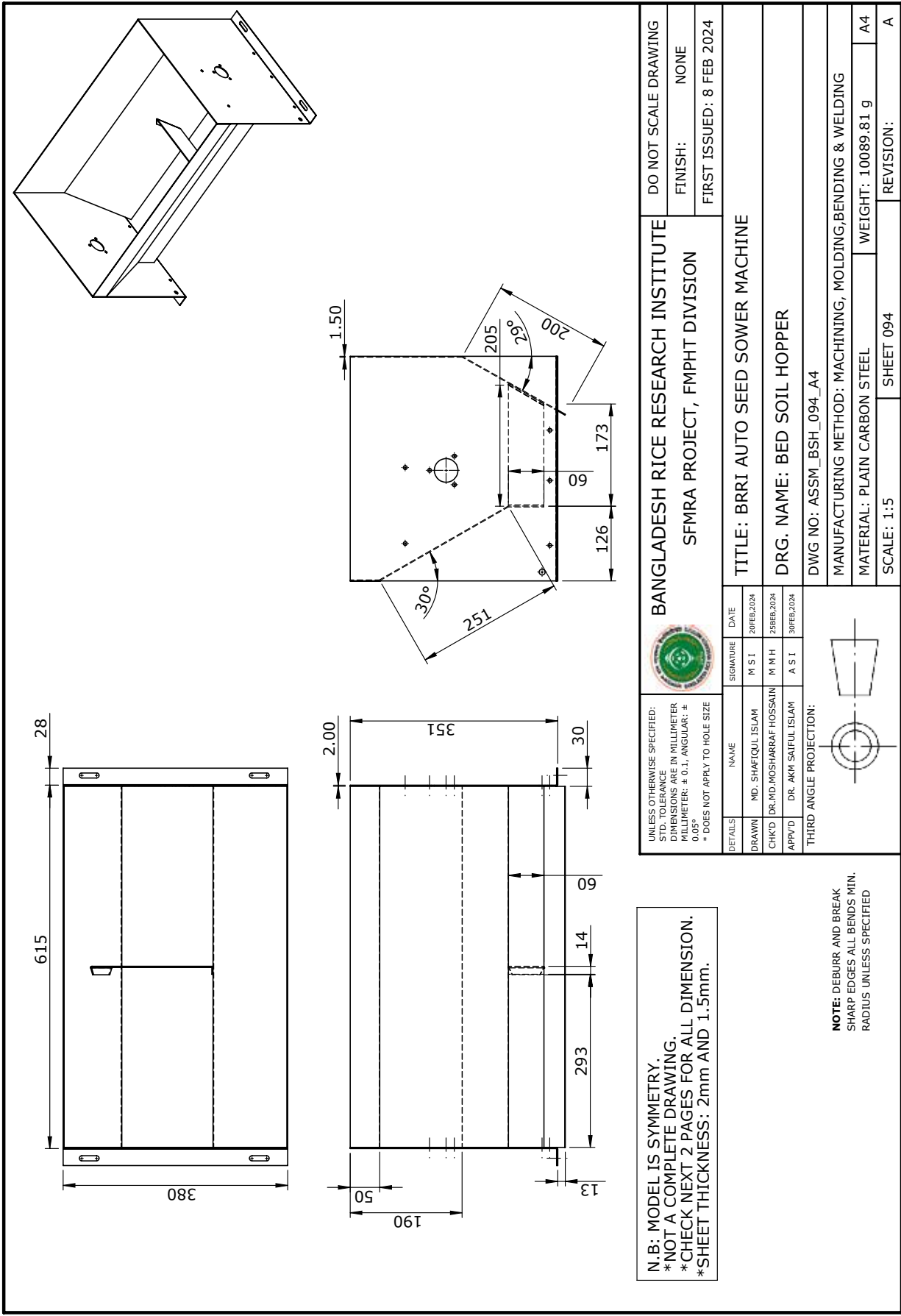


SECTION A-A
SCALE 2 : 1


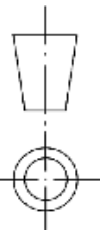


NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

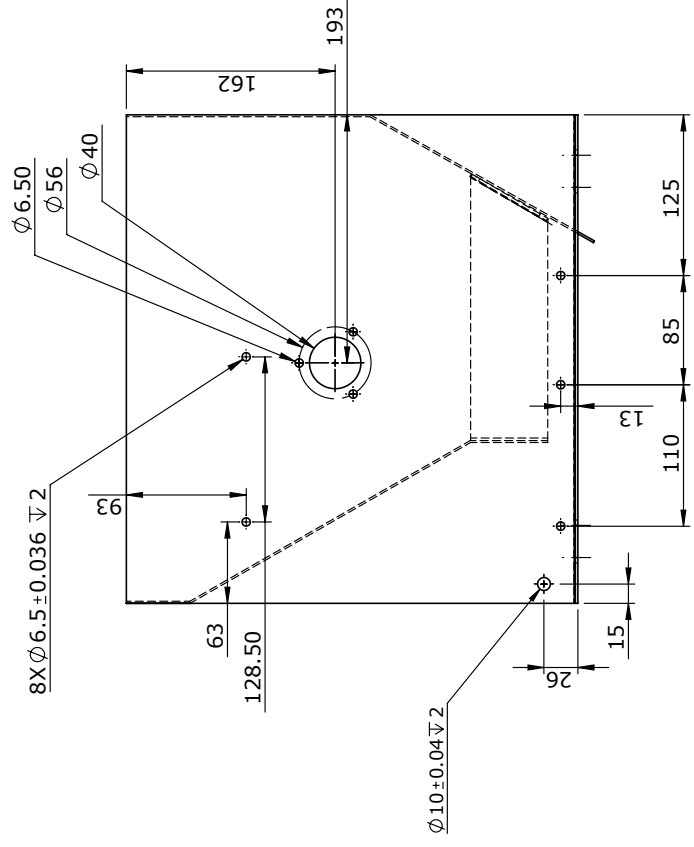
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:				
TITLE: BRRI AUTO SEED SOWER MACHINE				
DRG. NAME: CONVEYOR ROLLER SHAFT-2				
DWG NO: ASSM_CRS2_093_A4				
MANUFACTURING METHOD: MACHINING				
MATERIAL: PLAIN CARBON STEEL			WEIGHT: 640.65 g	A4
SCALE: 2:1			SHEET 093	REVISION: A



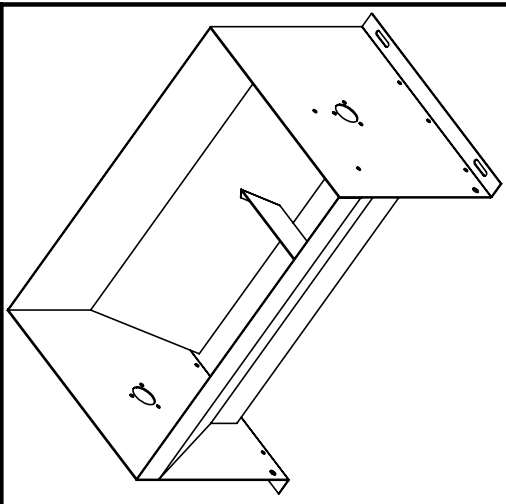
N.B: MODEL IS SYMMETRY.
***NOT A COMPLETE DRAWING.**
***CHECK NEXT 2 PAGES FOR ALL DIMENSION.**
***SHEET THICKNESS: 2mm AND 1.5mm.**

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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	DRG. NAME: BED SOIL HOPPER			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024	DWG NO: ASSM_BSH_094_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	MANUFACTURING METHOD: MACHINING, MOLDING, BENDING & WELDING			
THIRD ANGLE PROJECTION:				MATERIAL: PLAIN CARBON STEEL			
				SCALE: 1:5			
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				REVISION: A			

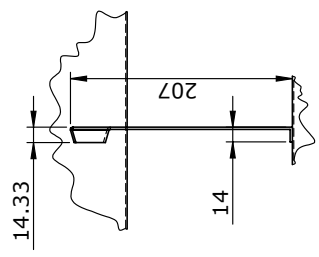
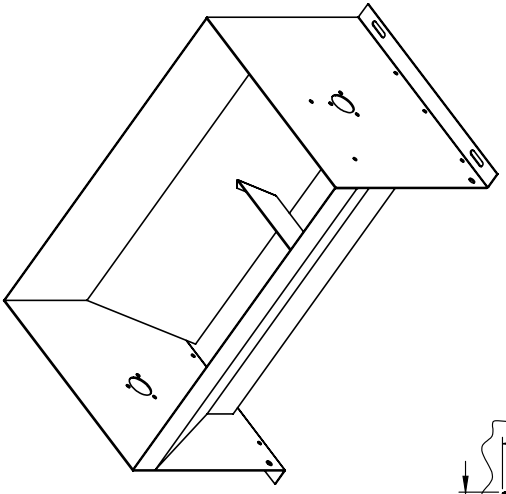
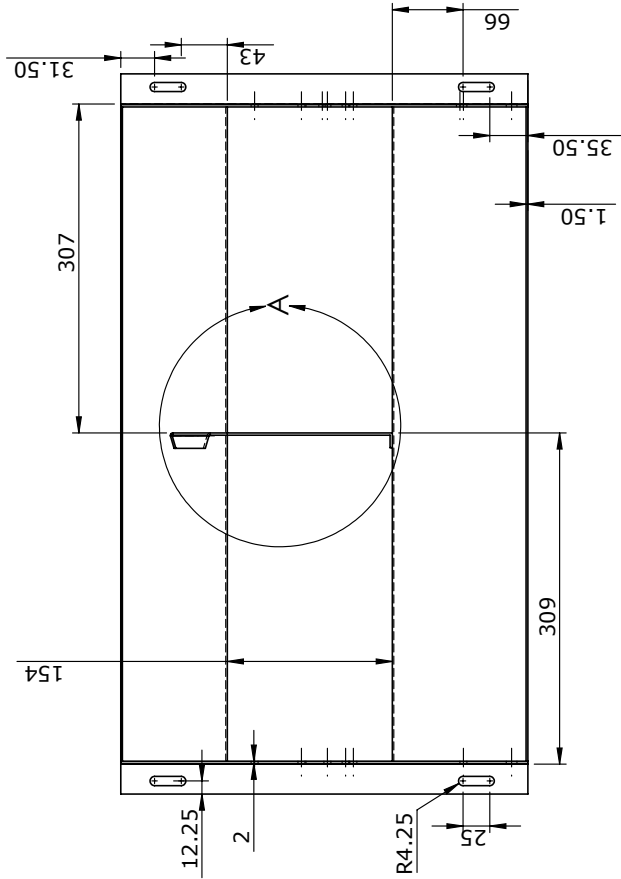
N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY RIGHT SIDE VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.
 *CHECK NEXT PAGE FOR TOP VIEWS.



DRAWING NO: ASSM_BSH_094_A4
 SHEET NO: 95
 SCALE: 1:10



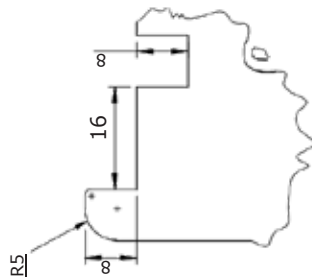
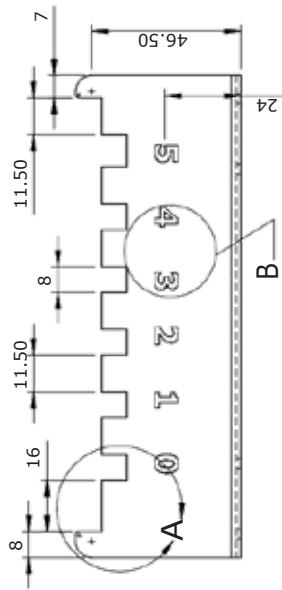
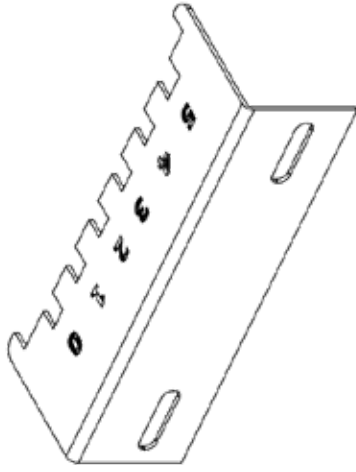
N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY TOP VIEW DIMENSIONS HAS
 SHOWN IN THIS SHEET.



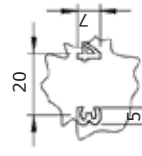
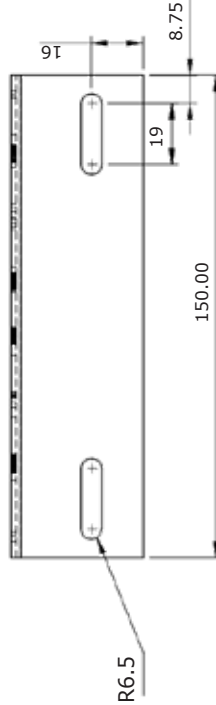
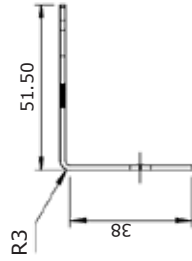
DETAIL A
 SCALE 1 : 6

DRAWING NO: ASSM_BSH_094_A4
 SHEET NO: 96
 SCALE: 1:5

N.B: MODEL IS SYMMETRY
*SHEET THICKNESS: 1.5mm



DETAIL A
SCALE 1 : 1



DETAIL B

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: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: SOIL CONTROL LEVER CLAMP

DWG NO: ASSM_SCLC_097_A4

MANUFACTURING METHOD: MACHINING, MOLDING, BENDING

MATERIAL: PLAIN CARBON STEEL

WEIGHT: 135.34 g

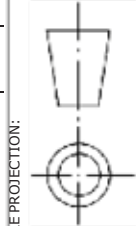
A4

SCALE: 1:2

SHEET 097

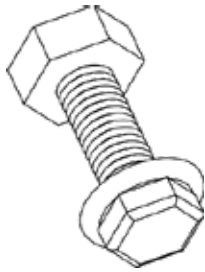
REVISION:

A


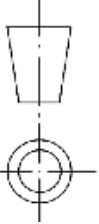


NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

BED SOIL HOPPER SCREW
 BOLT M10
 THREAD M10X1.25
 LONG- 38 MM
 NUT M10
 THREAD M10X1.25
 LONG-7 MM
 QUANTITY-4


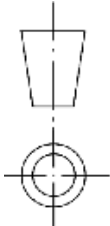


NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ±				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
* DOES NOT APPLY TO HOLE SIZE						FINISH: NONE	
						FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	DRG. NAME: BED SOIL HOPPER SCREW			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB, 2024	DWG NO: ASSM_TSHS_098_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	OUTSOURCING : VENDOR			
THIRD ANGLE PROJECTION:				MATERIAL: PLAIN CARBON STEEL			
				SCALE: 1:1			
				SHEET 098		WEIGHT: 36.45 g	
						REVISION: A	

TENTIONER WING NUT
 NUT M6
 THREAD M6X1
 QUANTITY-4


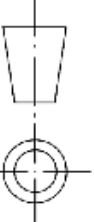


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAIL	NAME	SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB, 2024	FIRST ISSUED: 8 FEB 2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	20/FEB, 2024	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB, 2024	
THIRD ANGLE PROJECTION:				
		TITLE: BRRI AUTO SEED SOWER MACHINE		
DRG. NAME: TENTIONER WING NUT				
DWG NO: ASSM_TWN_099_A4				
OUTSOURCING : VENDOR				
MATERIAL: PLAIN CARBON STEEL			WEIGHT: 26.45 g	A4
SCALE: 1:1			SHEET 099	REVISION: A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

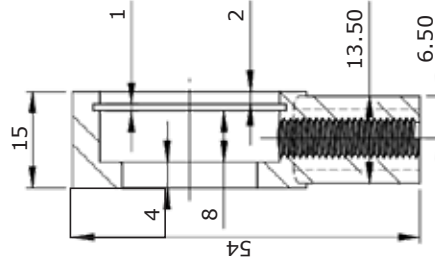
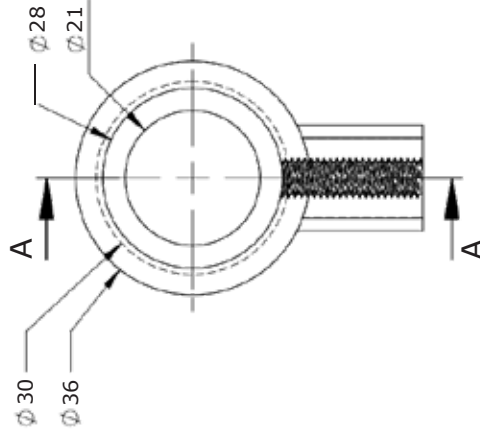
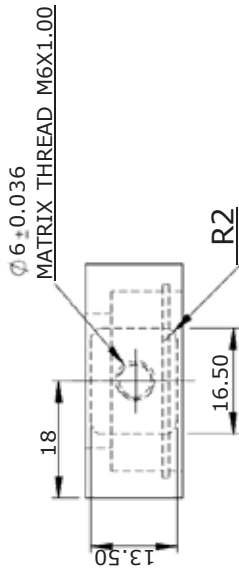
TENSIONER WING
NUT SCREW
BOLT M6
THREAD M6X1.00
LONG- 88 MM
QUANTITY-4



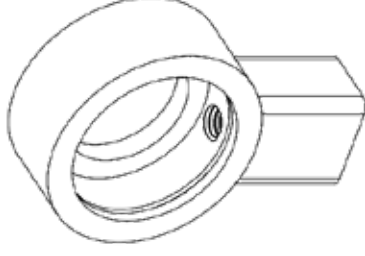
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ±				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAIL	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	28FEB,2024	DRG. NAME: TENSIONER WING NUT SCREW			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	28FEB,2024	DWG NO: ASSM_TWNS_100_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	OUTSOURCING : VENDOR			
THIRD ANGLE PROJECTION:				MATERIAL: PLAIN CARBON STEEL			
				WEIGHT: 66.25 g			
				SCALE: 1:1			
				SHEET 100			
				REVISION: A			

NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY



SECTION A-A



UNLESS OTHERWISE SPECIFIED:
STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER
MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$
* DOES NOT APPLY TO HOLE SIZE



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SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING
FINISH: NONE
FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: ROLLER TENSION BEARING HOUSE

DWG NO: ASSM_RTBH_101_A4

MANUFACTURING METHOD: MACHINING

MATERIAL: CAST STEEL

WEIGHT: 84.31 g

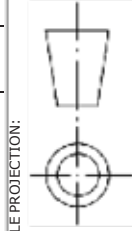
A4

SCALE: 1:1

SHEET 101

REVISION:

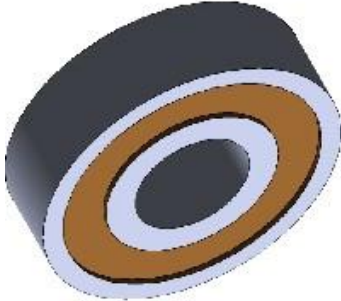
A


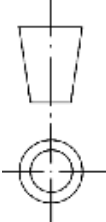


THIRD ANGLE PROJECTION:

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

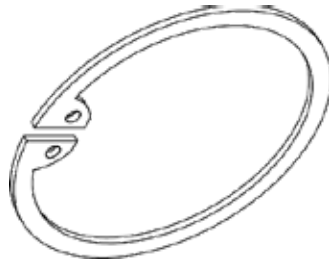
CONVEYOR ROLLER TENSIONER BEARING
 BEARING NO-6001 . DIMENTION OD28 X IN12 X W8


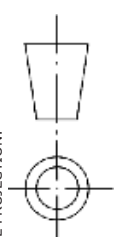


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	FINISH: NONE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB,2024	FIRST ISSUED: 8 FEB 2024			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB,2024	TITLE: BRRI AUTO SEED SOWER MACHINE			
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB,2024	DRG. NAME: TENSIONER BEARING			
THIRD ANGLE PROJECTION:							
			DWG NO: ASSM_TB_102_A4				
			OUTSOURCING : VENDOR				
			SCALE: 1:1		SHEET 102		REVISION: A
			MATERIAL: STAINLESS STEEL(FERRITIC)		WEIGHT: 110 g		A4

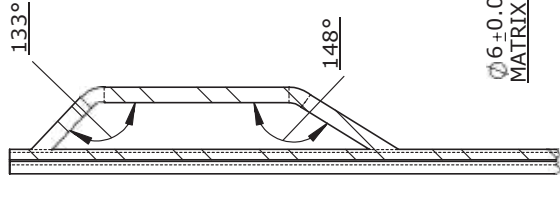
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

CONVEYOR ROLLER TENSIONER BEARING INNER CIRCLIP LOCK
 DIMENTION OD30 X IN 24 X W1.2

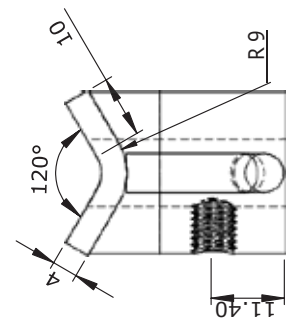


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB,2024	DRG. NAME: 6001 BEARING CIRCLIP LOCK		FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	20/FEB, 2024	DWG NO: ASSM_6001_103_A4		
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB, 2024	OUTSOURCING : VENDOR		
THIRD ANGLE PROJECTION:						
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED			MATERIAL: AISI 1010 SCALE: 1:1 SHEET 103 WEIGHT: 30 g REVISION: A			

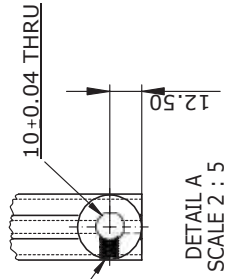
MODEL IS SYMMETRY



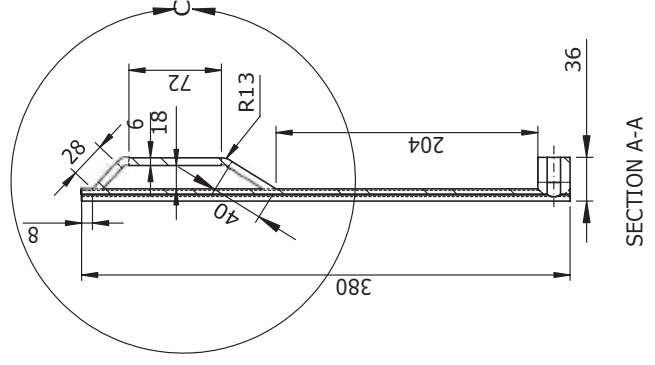
DETAIL C
SCALE 2 : 5



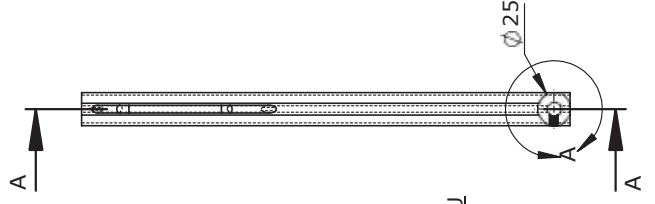
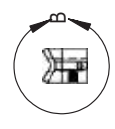
DETAIL B
SCALE 1 : 1


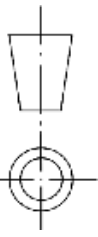


DETAIL A
SCALE 2 : 5



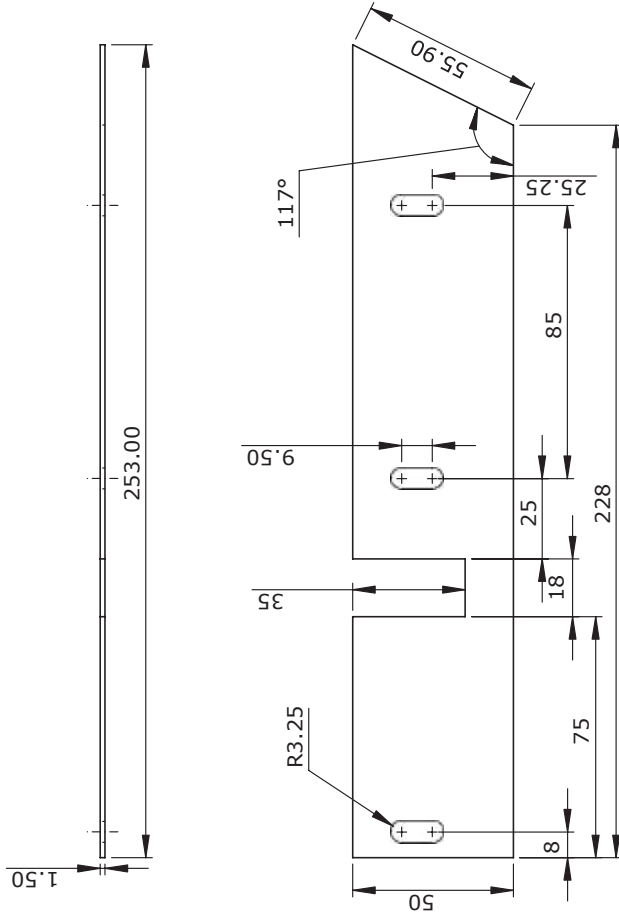
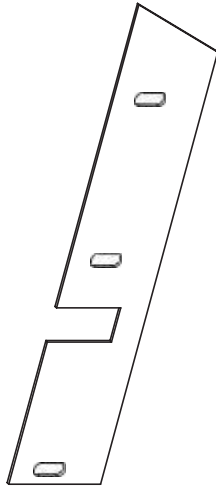
SECTION A-A


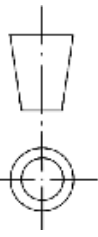


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	DRG. NAME: SOIL CONTROL LEVER		FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25FEB,2024	DWG NO: ASSM_SCL_104_A4		
APPVD	DR. AKM SAFUL ISLAM	A S I	30FEB,2024	MANUFACTURING METHOD: MACHINING, BENDING & WELDING		
THIRD ANGLE PROJECTION:					MATERIAL: PLAIN CARBON STEEL	
					WEIGHT: 427.28 g	
					SCALE: 1:5	
					SHEET 104	
					REVISION: A	

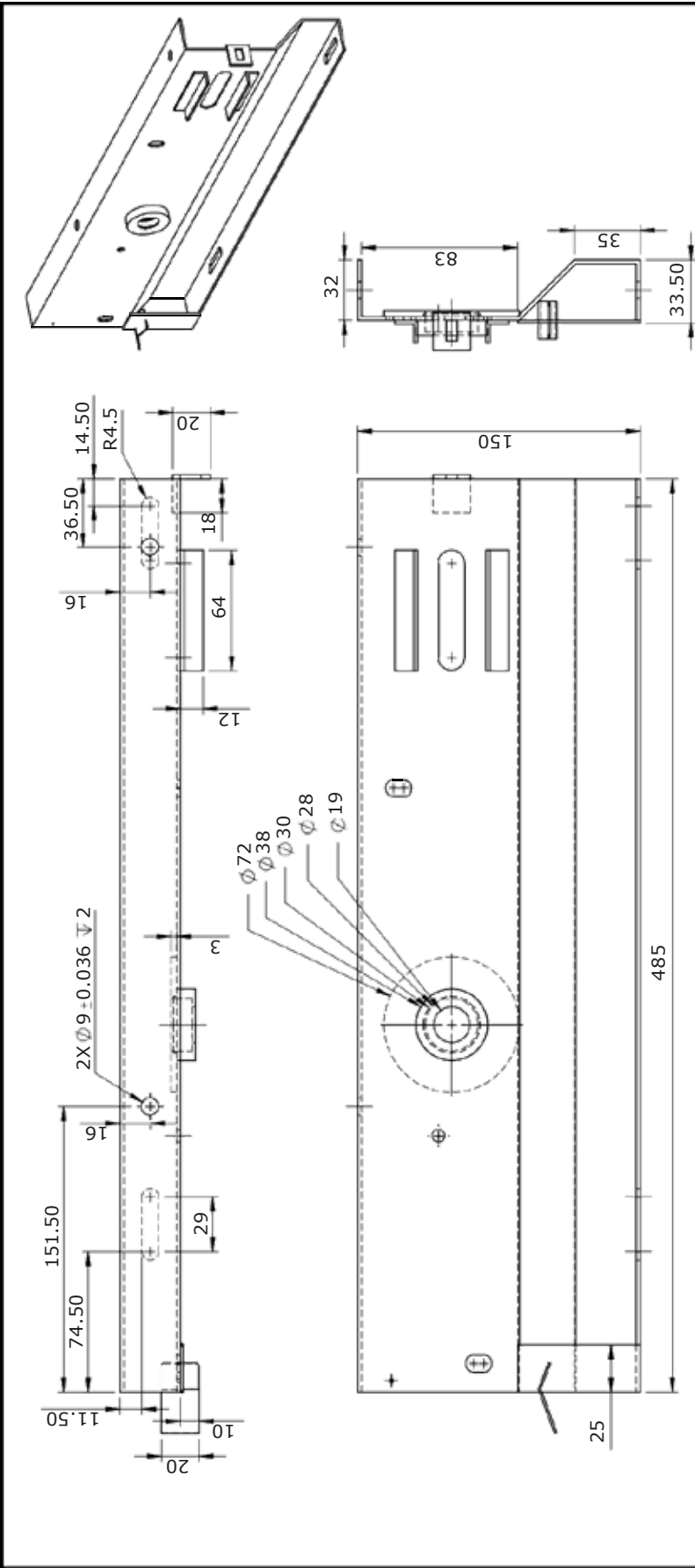
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY





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		FINISH: NONE	
DRAWN		MD. SHAFIQUL ISLAM		M S I		FIRST ISSUED: 8 FEB 2024	
CHKD		DR. MD. MOSHARRAF HOSSAIN		M P H I			
APPRVD		DR. AKM SAUFUL ISLAM		A S I			
THIRD ANGLE PROJECTION:				TITLE: BRRI AUTO SEED SOWER MACHINE			
				DRG. NAME: HOPPER SIDE SUPPORT PLATE			
				DWG NO: ASSM_HSP_105_A4			
				MANUFACTURING METHOD: MACHINING			
				MATERIAL: PLAIN CARBON STEEL		WEIGHT: 129.99 g	
				SCALE: 1:2		SHEET 105	
						REVISION: A	

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

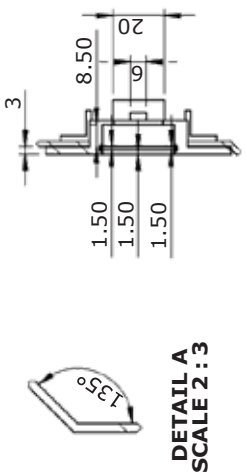


N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *CHECK NEXT PAGE FOR ALL DIMENSION
 **SHEET THICKNESS: 2mm

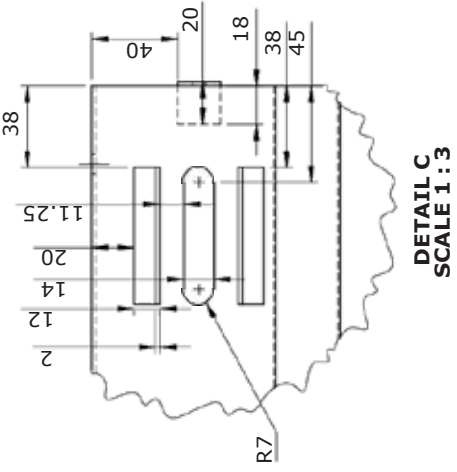
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

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 AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB,2024	DRG. NAME: BED SOIL HOPPER BASE		FIRST ISSUED: 8 FEB 2024	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB,2024	DWG NO: ASSM_BSBS_106_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB,2024	MANUFACTURING METHOD: MACHINING, BENDING & WELDING			
THIRD ANGLE PROJECTION:						MATERIAL: PLAIN CARBON STEEL	
				SCALE: 1:3		WEIGHT: 1846.48 g	
				SHEET 106		REVISION: A	

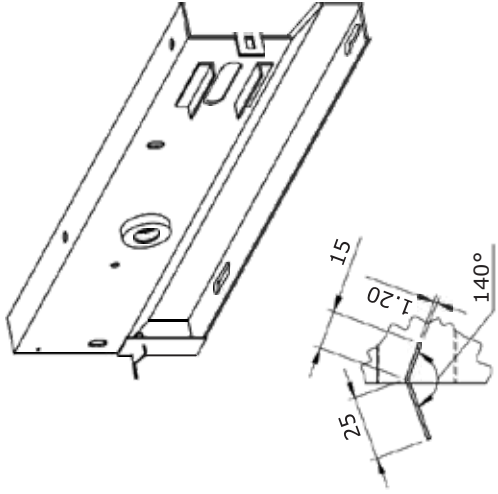
N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY FRONT AND SECTION FROM FRONT
 VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.
 *SHEET THICKNESS: 2mm.



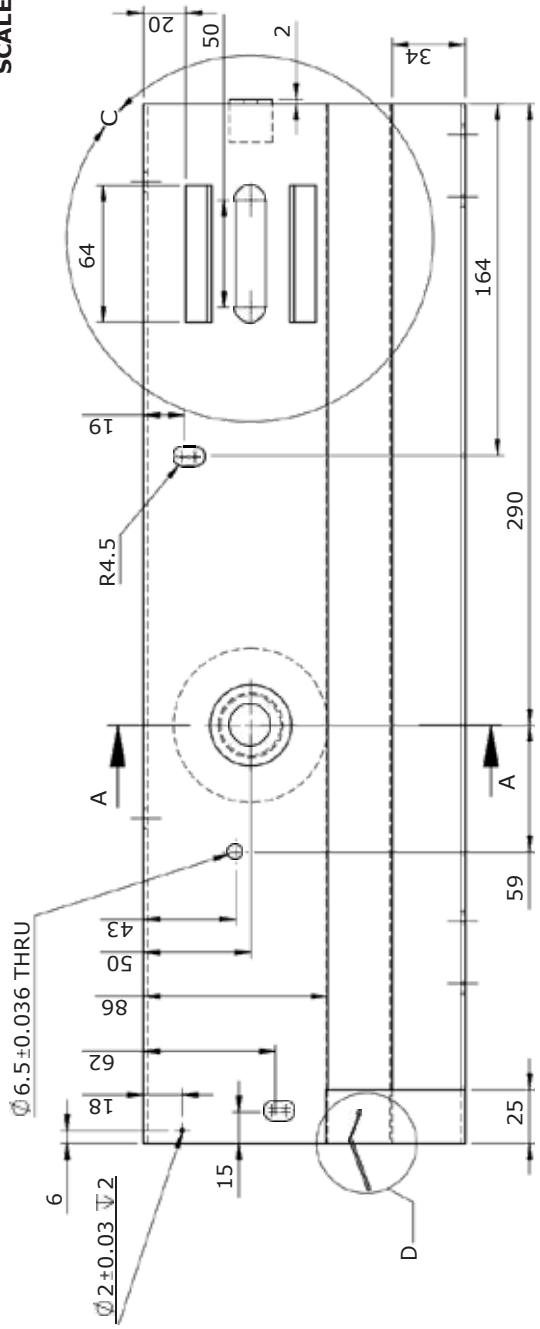
DETAIL A
SCALE 2 : 3



DETAIL C
SCALE 1 : 3



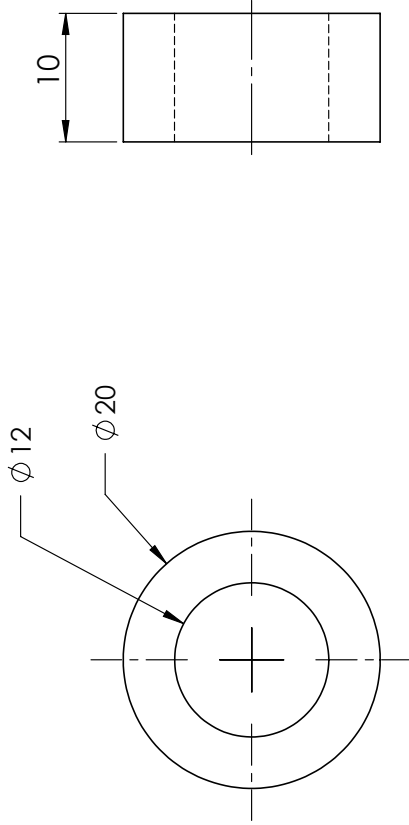
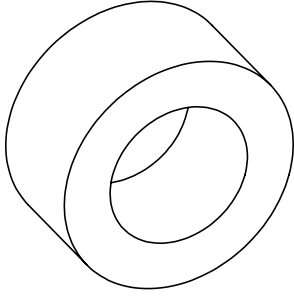
DETAIL D
SCALE 2 : 5


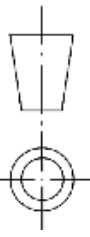


SECTION A-A
SCALE 1 : 3

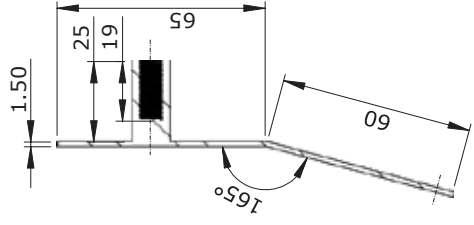
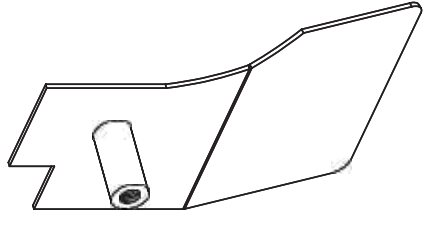
DWG NO: ASSM_BSHS_106_A4
 SHEET NO: 107

SOIL EQUALLY FALLING GUIJDER BUSH
QUANTITY-04

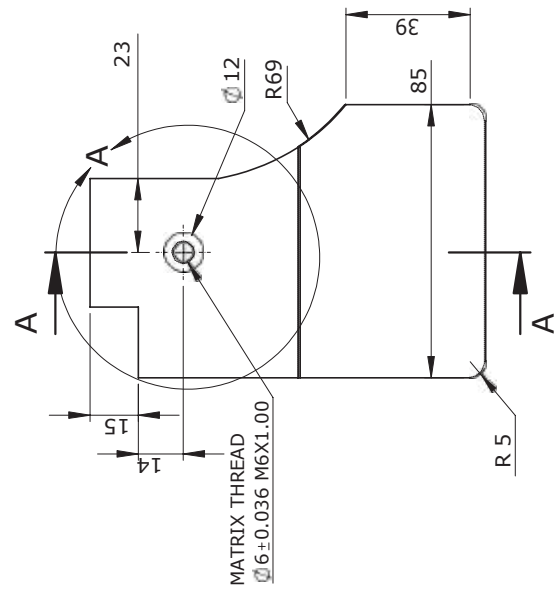


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE		FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024	
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:				
TITLE: BRRI AUTO SEED SOWER MACHINE				
DRG. NAME: SOIL GUIJDER BUSH				
DWG NO: ASSM_SGB_108_A4				
MANUFACTURING METHOD: MACHINING				
MATERIAL: PLAIN CARBON STEEL			WEIGHT: 56.53 g	
SCALE: 2:1			SHEET 108	
			REVISION: A	

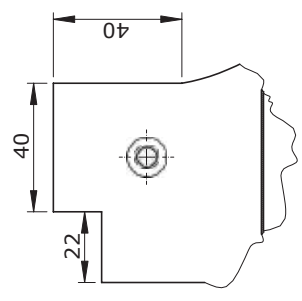
NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED



SECTION A-A




MATRIX THREAD
 $\varnothing 6 \pm 0.036 \text{ M6X1.00}$

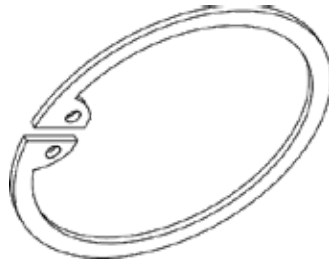



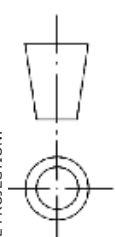
DETAIL A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

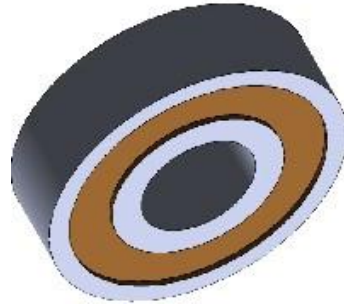
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		DETAILS DRAWN MD. SHAFIQUL ISLAM CHKD DR. MD. MOSHARRAF HOSSAIN APPVD DR. AKM SAIFUL ISLAM	NAME M S I M M H A S I	FINISH: NONE FIRST ISSUED: 8 FEB 2024
TITLE: BRRI AUTO SEED SOWER MACHINE		DATE 26FEB,2024 29FEB,2024 30FEB,2024		
DRG. NAME: SOIL EQUALLY FALLING GUIDER		DWG NO: ASSM_SEFG_109_A4		
MANUFACTURING METHOD: MACHINING, BENDING & WELDING		MATERIAL: PLAIN CARBON STEEL		WEIGHT: 112.46 g A4
SCALE: 1:2		SHEET 109		REVISION: A


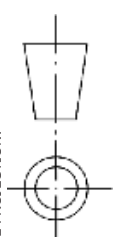
CONVEYOR ROLLER BEARING INNER CIRCLIP LOCK
 DIMENTION OD30 X IN 24 X W1.2



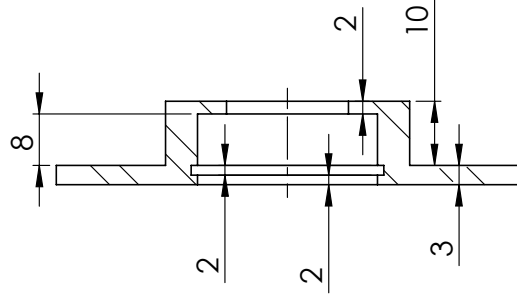
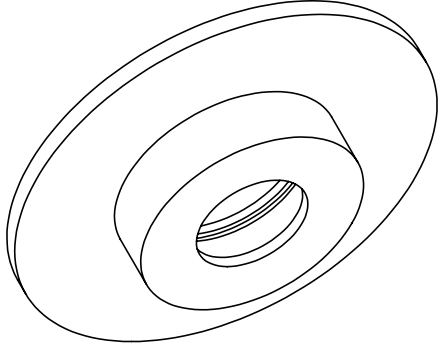
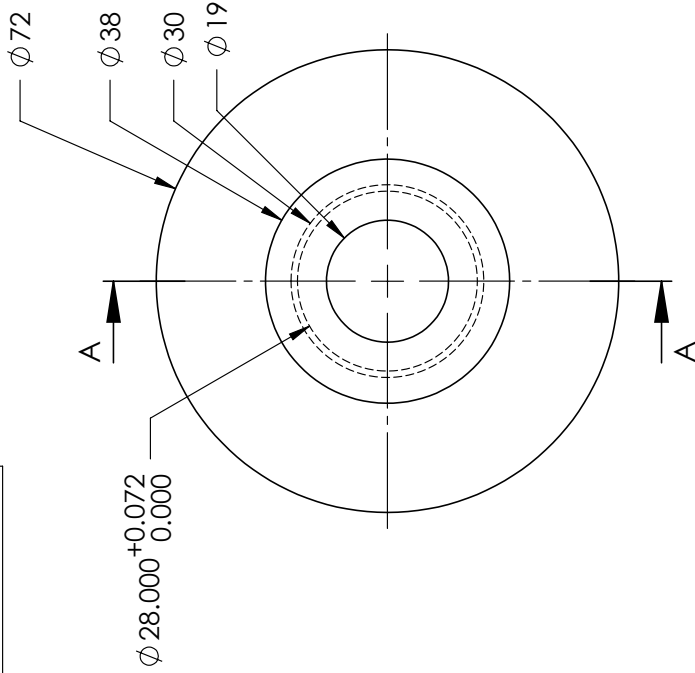
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB,2024	DRG. NAME: ROLLER BEARING CIRCLIP LOCK		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB,2024	DWG NO: ASSM_6001_110_A4		WEIGHT: 30 g	
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB,2024	OUTSOURCING : VENDOR		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 110	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				SCALE: 1:1		REVISION:	

CONVEYOR ROLLER BEARING
 BEARING NO-6001 . DIMENTION OD28 X IN12 X W8




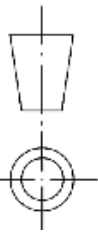
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS		NAME	SIGNATURE	DATE	FINISH: NONE		
DRAWN	MD. SHAFIQUL ISLAM	M S I	M S I	29/FEB,2024	FIRST ISSUED: 8 FEB 2024		
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	M M H	28/FEB,2024	TITLE: BRRI AUTO SEED SOWER MACHINE		
APPVD	DR. AKM SAJFUL ISLAM	A S I	A S I	30/FEB,2024	DRG. NAME: CONVEYOR ROLLER BEARING		
THIRD ANGLE PROJECTION:				DWG NO: ASSM_TB_111_A4			
				OUTSOURCING : VENDOR			
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: STAINLESS STEEL(FERRITIC)			
				SCALE: 1:1		WEIGHT: 110 g	
				SHEET 111		REVISION: A	

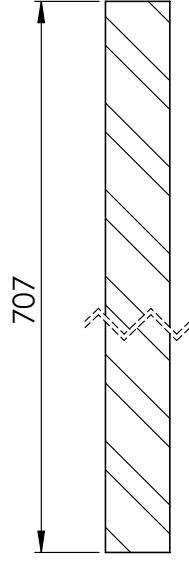
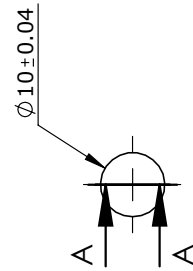
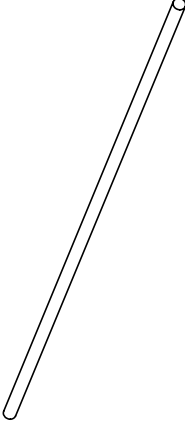
MODEL IS SYMMETRY




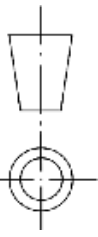
SECTION A-A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

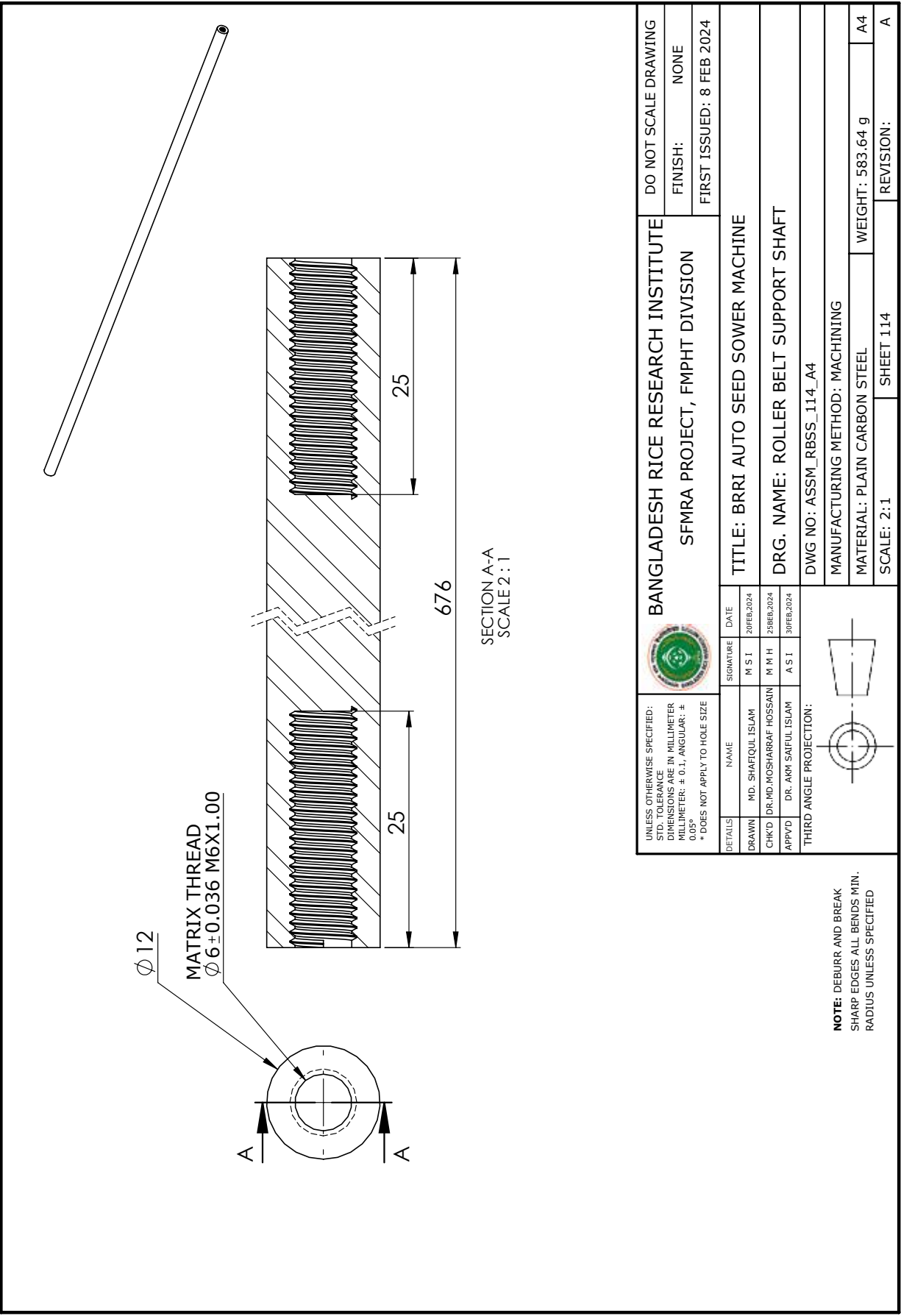
		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: CONVEYOR ROLLER BEARING COVER DWG NO: ASSM_CBC_112_A4 MANUFACTURING METHOD: MACHINING MATERIAL: PLAIN CARBON STEEL SCALE: 1:1		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS	NAME	SIGNATURE	DATE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:				
		SHEET 112		REVISION: A
		WEIGHT: 125.43 g		A4


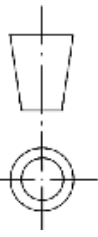


SECTION A-A
SCALE 1 : 1

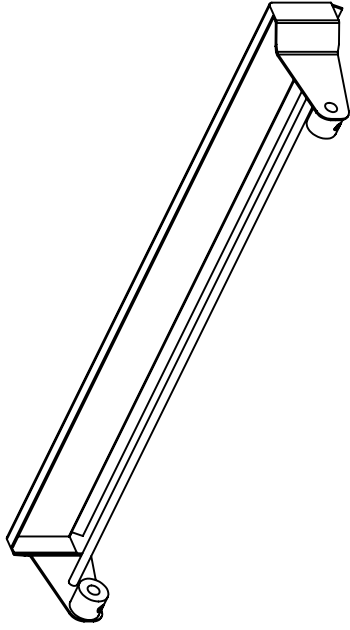
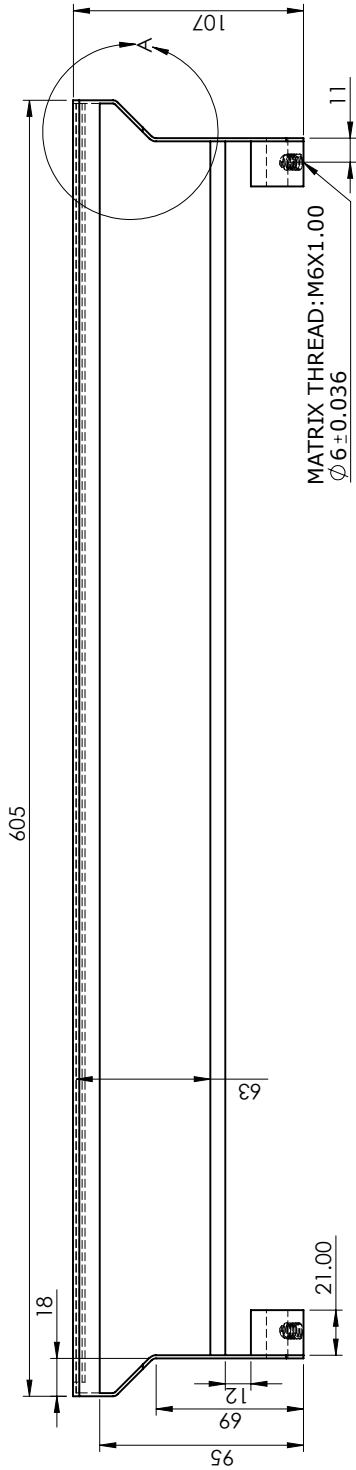
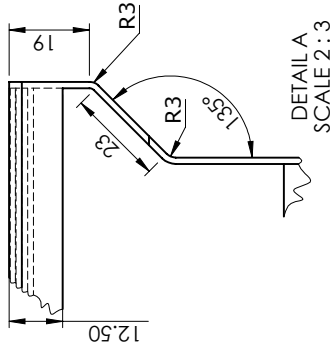
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024	
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:				
		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: SOIL CONTROL FRAME SHAFT		
		DWG NO: ASSM_SCFS_113_A4		
		MANUFACTURING METHOD: MACHINING		
		MATERIAL: PLAIN CARBON STEEL	WEIGHT: 413.53 g	A4
		SCALE: 1:1	SHEET 113	REVISION: A


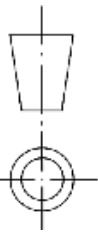
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

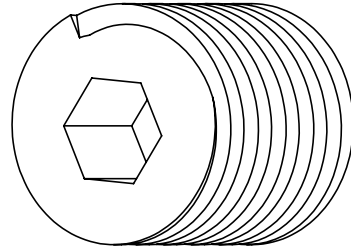


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: ROLLER BELT SUPPORT SHAFT			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024	DWG NO: ASSM_RBSS_114_A4			
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLAIN CARBON STEEL SCALE: 2:1 SHEET 114		WEIGHT: 583.64 g REVISION: A	



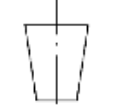
N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY TOP VIEW HAS SHOWN IN THIS SHEET.
 *CHECK NEXT PAGE FOR ALL VIEWS.
 *SHEET THICKNESS: 1.5mm

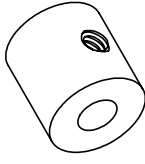


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: SOIL CONTROL FRAME		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_SCF_115_A4		WEIGHT: 946.62 g	
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING		REVISION: A	
THIRD ANGLE PROJECTION:				MATERIAL: PLAIN CARBON STEEL		SCALE: 1:3	
				SHEET 115		A	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED							

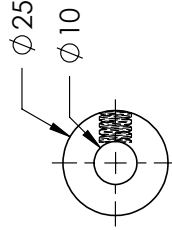
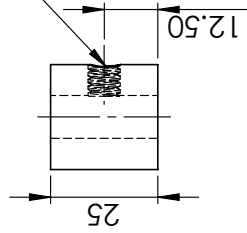


SOIL CONTROL FRAME LOCK
 SCREW $\phi 6 \pm 0.036$
 MATRIX THREAD M6X1.0
 LENGHT-19.25 MM

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
			TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: SOIL CONTROL FRAME LOCK SCREW DWG NO: ASSM_SCFLS_117_A4 OUTSOURCING : VENDOR MATERIAL: AISI 1010 STEEL SCALE: 3:1		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS	NAME	SIGNATURE	DATE		
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024		
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024		
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024		
THIRD ANGLE PROJECTION:					
					
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED					
SHEET 117				REVISION: A	



$\phi 6+0.04 \sqrt{7.25}$
MATRIX THREAD M6X1.00



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: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: SOIL CONTROL FRAME LOCK BUSH

DWG NO: ASSM_SCFB_118_A4

MANUFACTURING METHOD: MACHINING

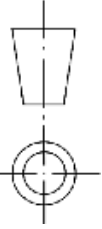
MATERIAL: PLAIN CARBON STEEL

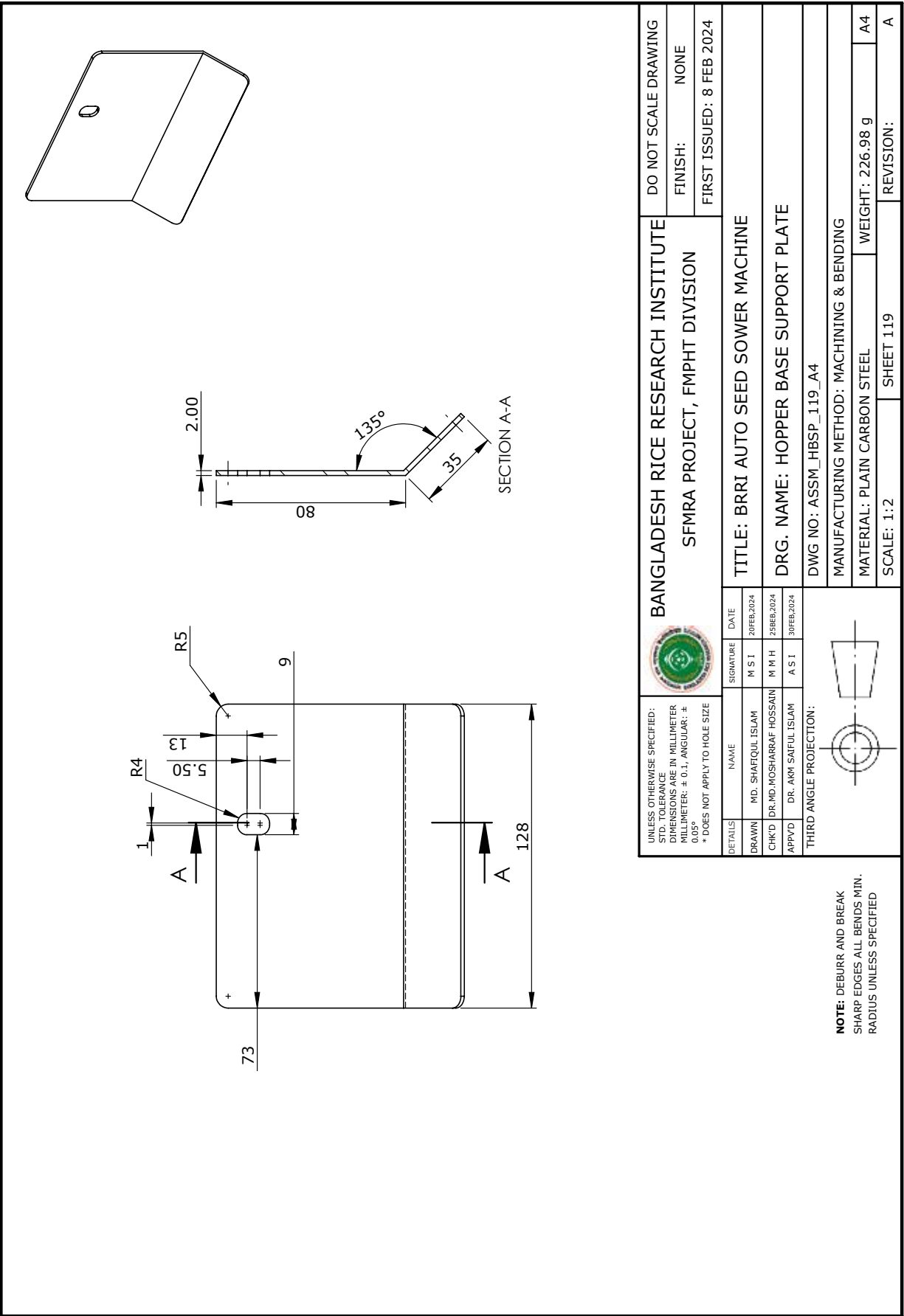
WEIGHT: 75.53 g


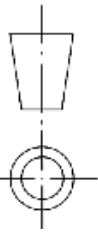
SCALE: 1:1

REVISION: A

NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

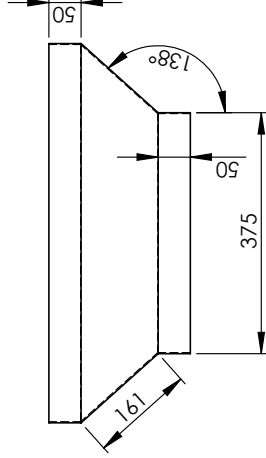
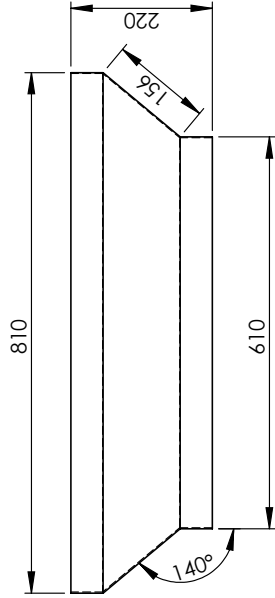
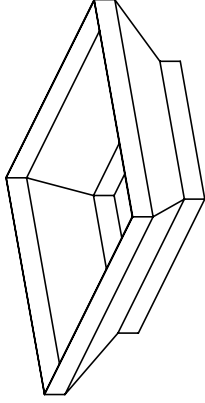




UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: HOPPER BASE SUPPORT PLATE		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024	DWG NO: ASSM_HBSP_119_A4		WEIGHT: 226.98 g	
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING & BENDING		REVISION: A	
THIRD ANGLE PROJECTION:						MATERIAL: PLAIN CARBON STEEL	
				SCALE: 1:2		SHEET 119	

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY
SHEET THICKNESS 1.5mm



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: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: BED SOIL HOPPER EXTRA PART

DWG NO: ASSM_BSHEP_120_A4

MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING

MATERIAL: PLAIN CARBON STEEL

WEIGHT: 7274.59 g

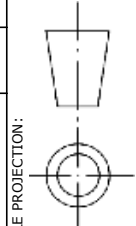
A4

SCALE: 1:15

SHEET 120

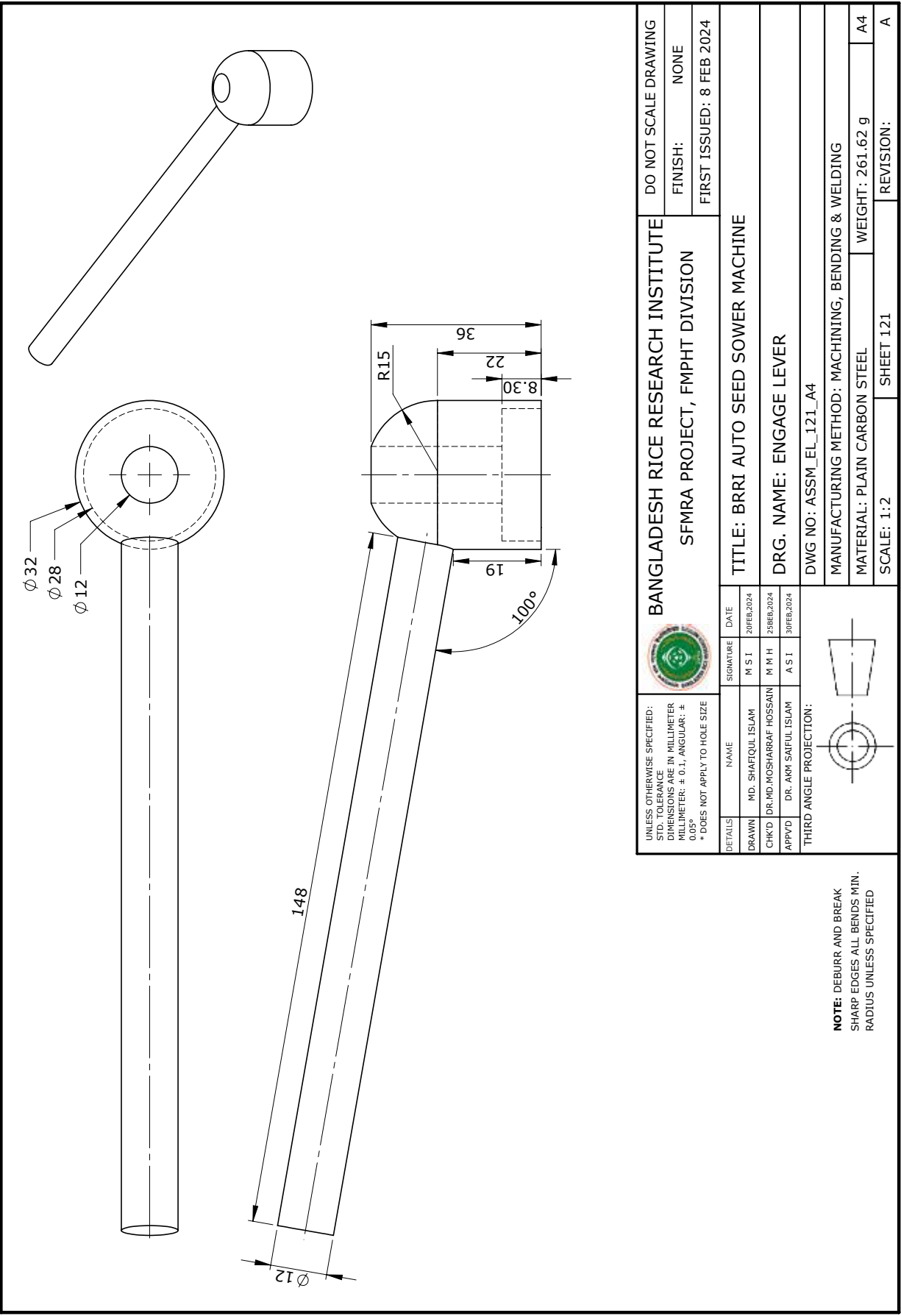
REVISION:


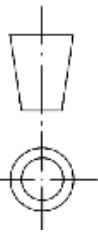
A



THIRD ANGLE PROJECTION:


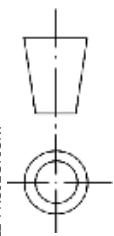
NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED



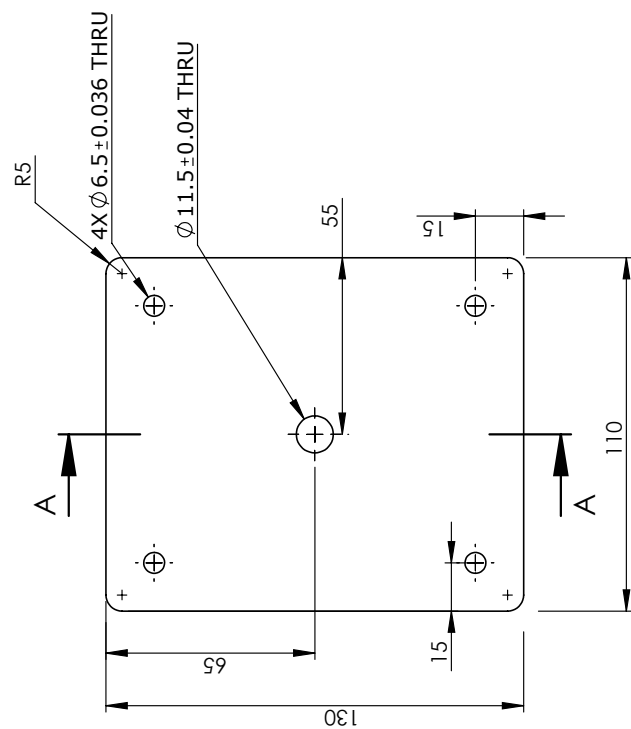
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS		NAME	SIGNATURE	DATE	FINISH: NONE		FIRST ISSUED: 8 FEB 2024
DRAWN	MD. SHAFIQUL ISLAM	M S I	[Signature]	20/FEB/2024	TITLE: BRRI AUTO SEED SOWER MACHINE		
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	[Signature]	25/FEB/2024	DRG. NAME: ENGAGE LEVER		
APPVD	DR. AKM SAIFUL ISLAM	A S I	[Signature]	30/FEB/2024	DWG NO: ASSM_EL_121_A4		
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MANUFACTURING METHOD: MACHINING, BENDING & WELDING MATERIAL: PLAIN CARBON STEEL SCALE: 1:2 SHEET 121 REVISION: A			
				WEIGHT: 261.62 g		A4	

ENGAGE LEVER SCREW $\phi 8_{\pm 0.04}$
 MATRIX THREAD M8X1.25
 LENGHT-75 mm

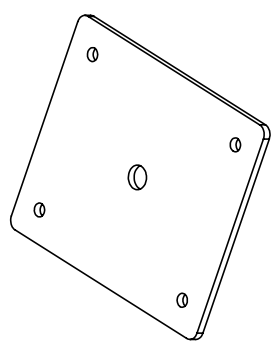



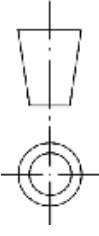
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: # 0.1, ANGULAR: # 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQU L ISLAM	M S I	20FEB2024	DRG. NAME: ENGAGE LEVER SCREW			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB2024	DWG NO: ASSM_ELS_122_A4			
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB2024	OUTSOURCING : VENDOR			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED		MATERIAL: AISI 1010 STEEL		WEIGHT: 48.20 g		A4	
SCALE: 1:1		SHEET 122		REVISION:		A	

MODEL IS SYMMETRY
SHEET THICKNESS 4mm



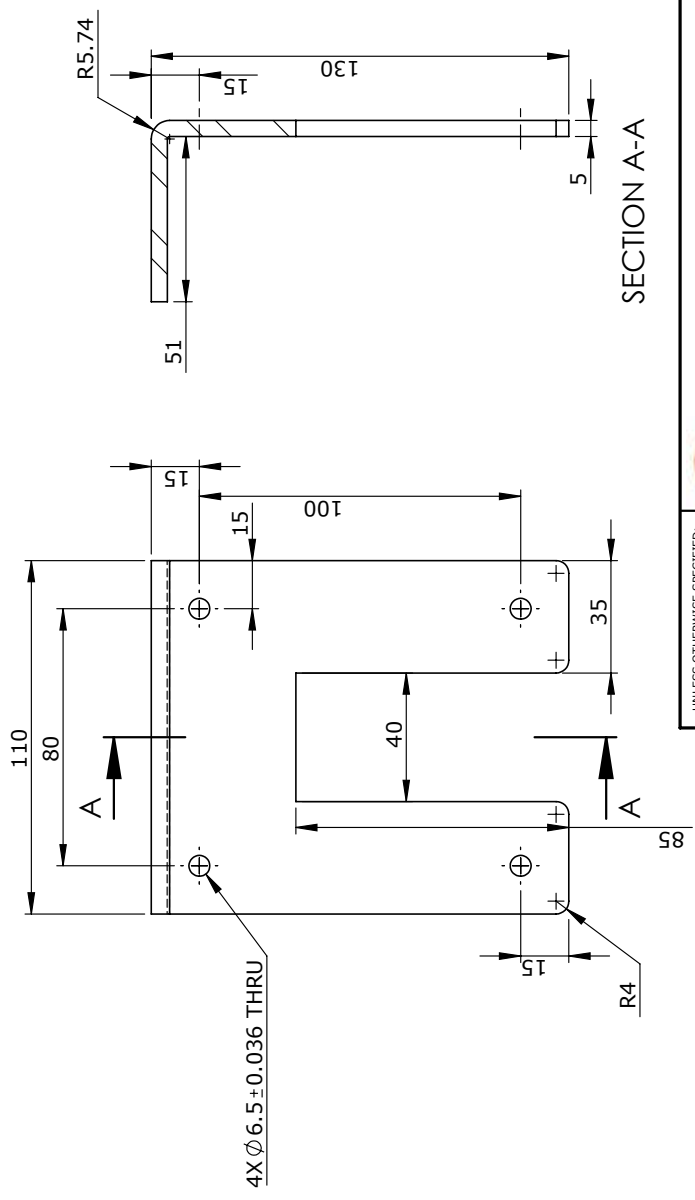
SECTION A-A



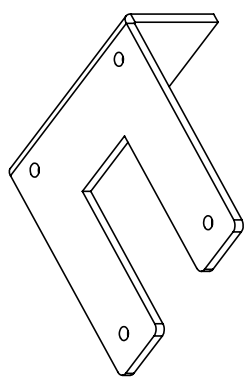
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	[Signature]	20FEB.2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	[Signature]	25FEB.2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I	[Signature]	30FEB.2024
THIRD ANGLE PROJECTION:				
TITLE: BRRI AUTO SEED SOWER MACHINE				
DRG. NAME: ENGAGE LEVER BASE PLATE 1				
DWG NO: ASSM_ELBP_123_A4				
MANUFACTURING METHOD: MACHINING				
MATERIAL: PLAIN CARBON STEEL			WEIGHT: 438.11 g	
SCALE: 1:2			SHEET 123	
			REVISION: A	


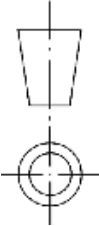
NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

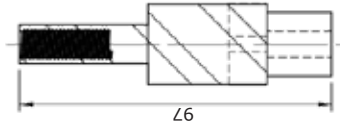
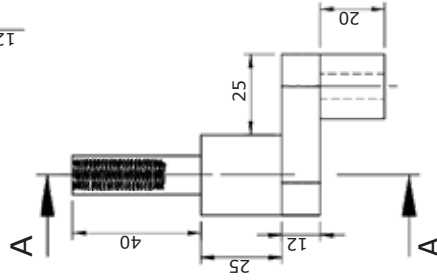
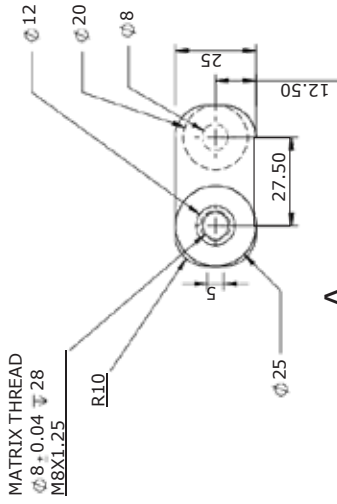
MODEL IS SYMMETRY
SHEET THICKNESS 5MM



SECTION A-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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB.2024	DRG. NAME: ENGAGE LEVER BASE PLATE 2			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB.2024	DWG NO: ASSM_ELPB_124_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB.2024	MANUFACTURING METHOD: MACHINING			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLAIN CARBON STEEL SCALE: 1:2 WEIGHT: 638.52 g			
				SHEET 124		REVISION: A	



SECTION A-A

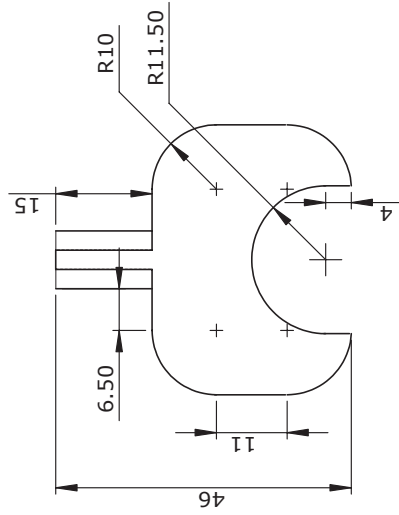
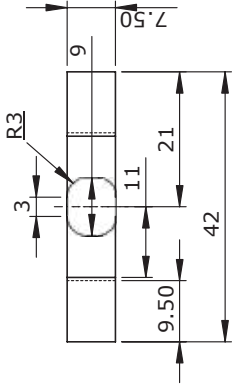
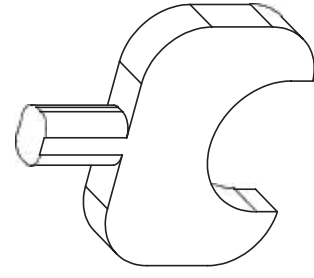


UNLESS OTHERWISE SPECIFIED:
 STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER
 MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$
 * DOES NOT APPLY TO HOLE SIZE

DO NOT SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		TITLE: BRRI AUTO SEED SOWER MACHINE	
DETAILS DRAWN MD. SHAFIQUIL ISLAM CHK'D DR. MD. MOSHARRAF HOSSAIN APP'VD DR. AKM SAIFUL ISLAM	SIGNATURE M S I M M H A S I	DATE 20FEB.2024 25FEB.2024 30FEB.2024	DRG. NAME: ENGAGE CAM DWG NO: ASSM_EC_125_A4
THIRD ANGLE PROJECTION:		MANUFACTURING METHOD: MACHINING & WELDING	
MATERIAL: PLAIN CARBON STEEL		WEIGHT: 270.84 g	
SCALE: 1:2		SHEET 125	
REVISION: 1		A4	
A		A	

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED



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: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQU L ISLAM	M S I	20FEB.2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB.2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB.2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: ENGAGE NOBE

DWG NO: ASSM_EN_126_A4

MANUFACTURING METHOD: MACHINING

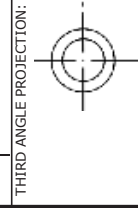
MATERIAL: PLAIN CARBON STEEL

WEIGHT: 66.60 g

SCALE: 1:1

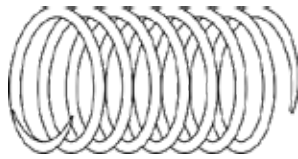
SHEET 126


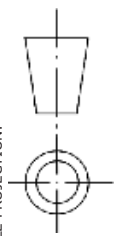
REVISION: A



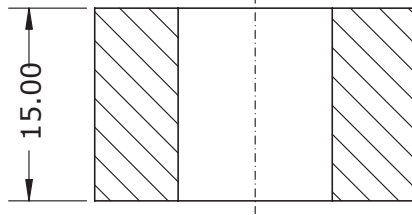
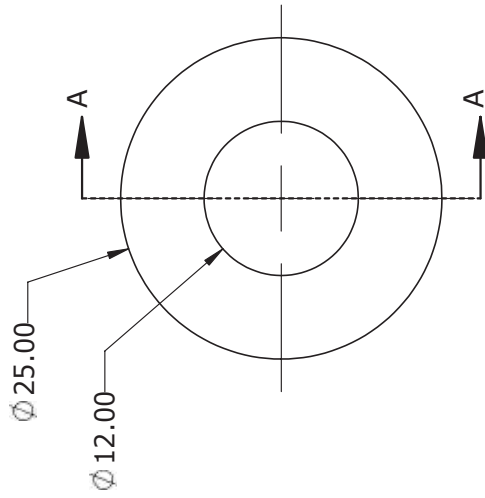
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

COMPRESSION SPRING
 OUTER DIA: 22MM
 TOTAL COIL: 8
 FREE LENGHT: 43MM
 SODIL HEIGHT :18 MM
 WIRE DIA: 2MM

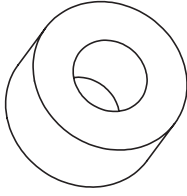


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: # 0.1, ANGULAR: # 0.05° * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUIL ISLAM	M S I	20FEB,2024	FIRST ISSUED: 8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	
THIRD ANGLE PROJECTION:				
		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: ENGAGE SPRING		
		DWG NO: ASSM_ES_127_A4		
		OUTSOURCING : VENDOR		
		MATERIAL: AISI 1010 STEEL	WEIGHT: 34.53 g	A4
		SCALE: 1:1	SHEET 127	REVISION: A

NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED



SECTION A-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

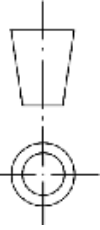
DO NOT SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUIL ISLAM	M S I	20FEB2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB2024
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: ENGAGE BUSH 1

DWG NO: ASSM_EB_128_A4



THIRD ANGLE PROJECTION:

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MANUFACTURING METHOD: MACHINING

MATERIAL: PLAIN CARBON STEEL

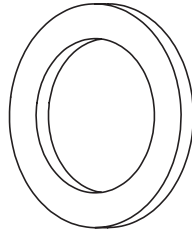
A4

SCALE: 1:1


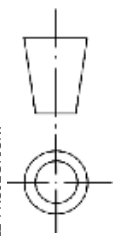
SHEET 128

REVISION: A

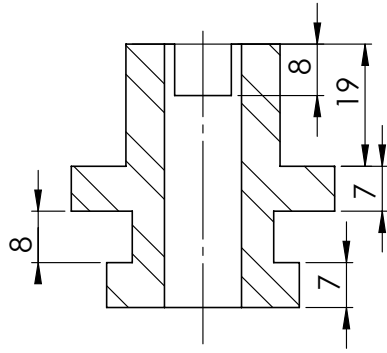
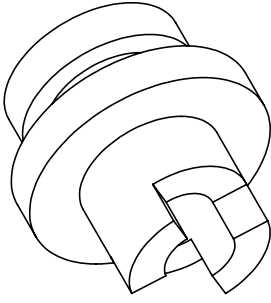
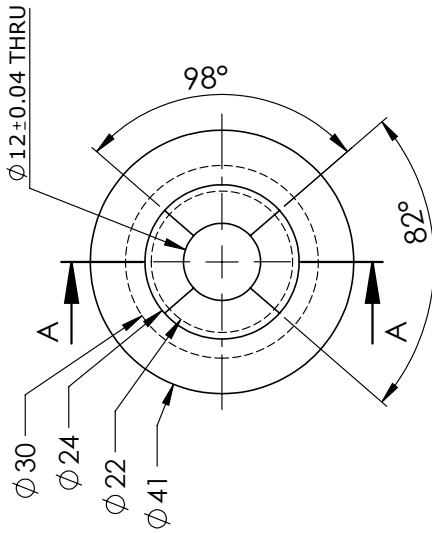
WEIGHT: 85.53 g



ENGAGE FLAT FASTENER
 OUTER DIA: 18 MM
 INNER DIA : 12.5 MM
 THICKNESS 1.5 MM


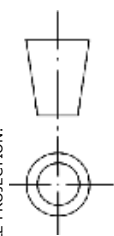
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: # 0.1, ANGULAR: # 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUUL ISLAM	M S I	20FEB.2024	DRG. NAME: ENGAGE FLAT FASTENER		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB.2024	DWG NO: ASSM_EFF_129_A4		WEIGHT: 24.53 g	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB.2024	OUTSOURCING : VENDOR		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 129	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLAIN CARBON STEEL		A4	
				SCALE: 1:1		A	

MODEL IS SYMMETRY

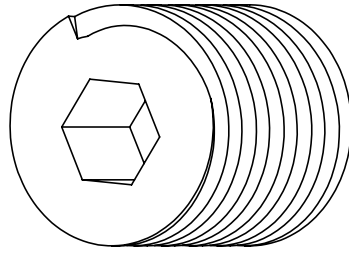



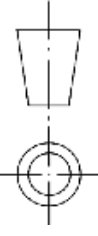
SECTION A-A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

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	MD. SHAFIQUL ISLAM	M S I	20FEB.2024	FIRST ISSUED: 8 FEB 2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB.2024	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB.2024	
THIRD ANGLE PROJECTION:				
		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: ENGAGE COUPLING 1		
		DWG NO: ASSM_EC1_130_A4		
		MANUFACTURING METHOD: MACHINING		
		MATERIAL: PLAIN CARBON STEEL	WEIGHT: 154.01 g	A4
		SCALE: 1:1	SHEET 130	REVISION: A

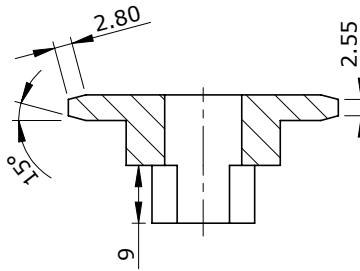
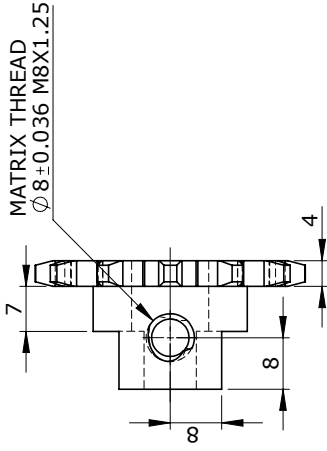
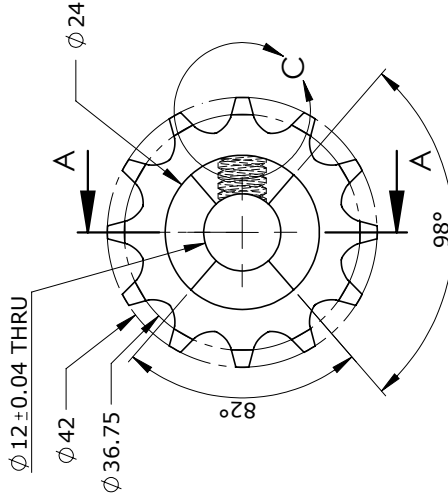
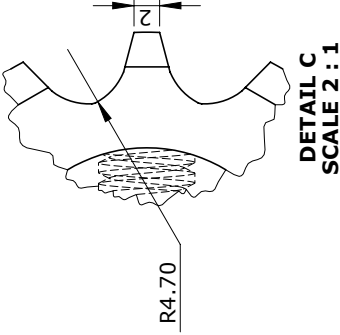
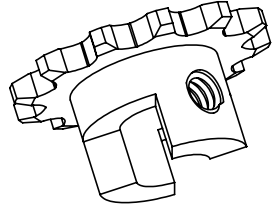
ENGAGE COUPLING LOCK SCREW
 $\varnothing 8 \pm 0.04$
 MATRIX THREAD M8X1.25
 LENGHT-7.5 MM


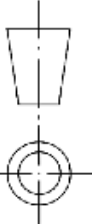


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		 BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
DETAILS		SIGNATURE	DATE	FINISH: NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB.2024	FIRST ISSUED: 8 FEB 2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB.2024	
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB.2024	
THIRD ANGLE PROJECTION:		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: ENGAGE COUPLING LOCK SCREW		
		DWG NO: ASSM_ECLS_131_A4		
		OUTSOURCING : VENDOR		
		MATERIAL: AISI 1010 STEEL		WEIGHT: 30.12 g
		SCALE: 3:1		REVISION: A
		SHEET 131		A

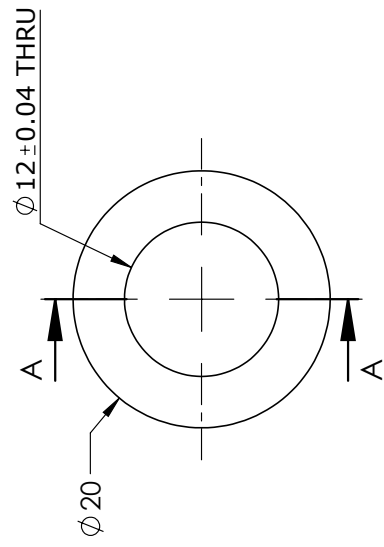
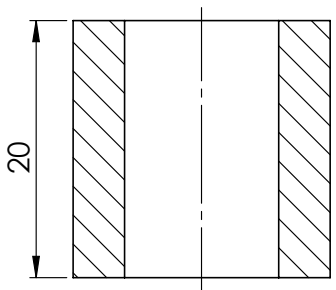
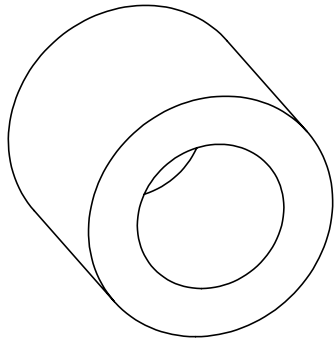
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY
TEETH NO-12


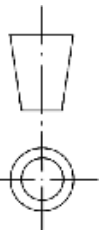


		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: ENGAGE COUPLING 2 DWG NO: ASSM_EC2_132_A4		FINISH: NONE
DETAILS:		NAME: MD. SHAFIQUL ISLAM DRAWN: DR. MD. MOSHARRAF HOSSAIN CHKD: DR. AKM SAIFUL ISLAM APPVD:		FIRST ISSUED: 8 FEB 2024
SIGNATURE: M S I DATE: 20/FEB/2024		NAME: M M H DATE: 25/FEB/2024		
THIRD ANGLE PROJECTION:				
MANUFACTURING METHOD: MACHINING		MATERIAL: PLAIN CARBON STEEL		WEIGHT: 1.34.25 g
SCALE: 1:1		SHEET 132		REVISION: A

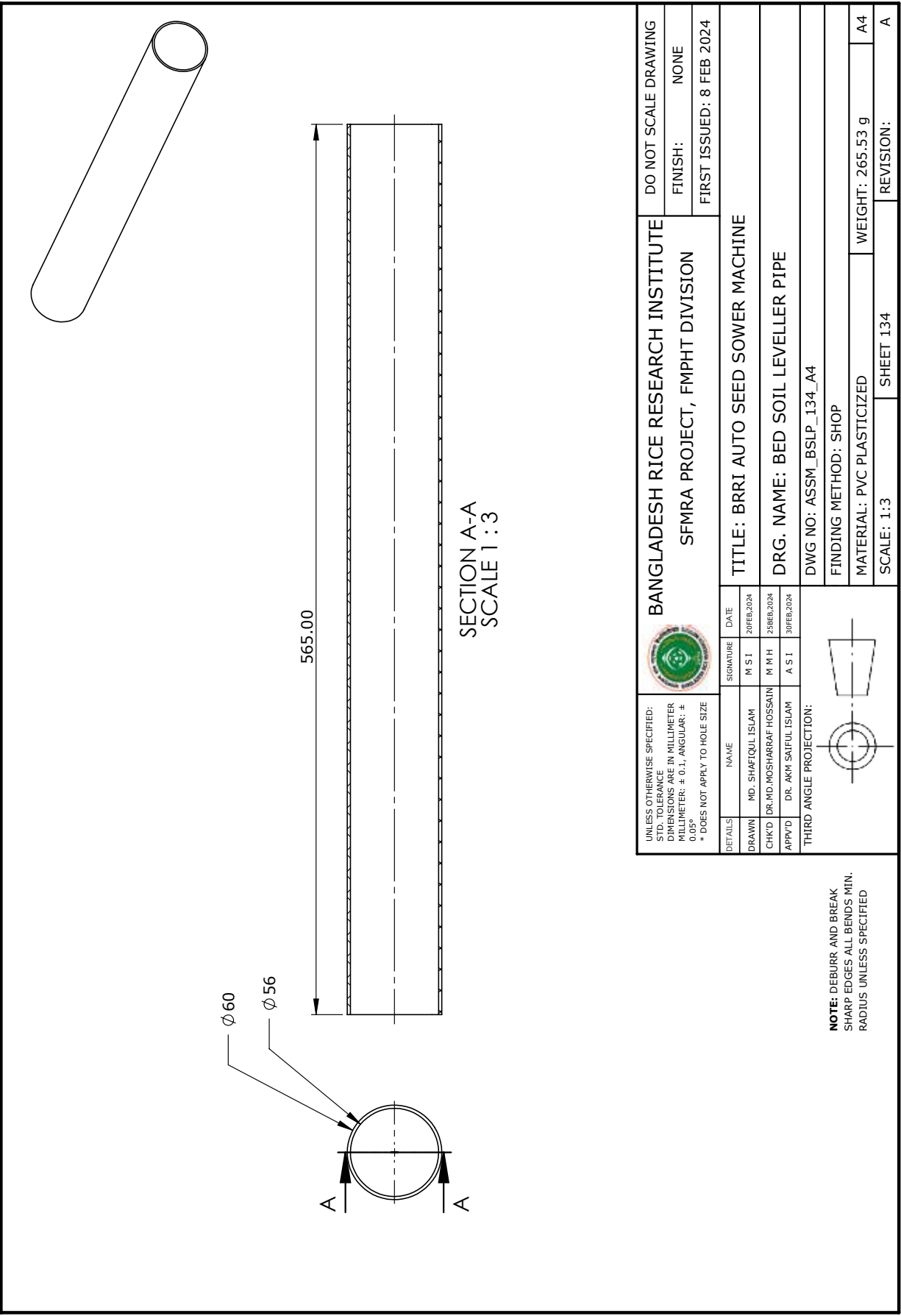
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED




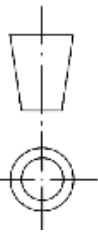
SECTION A-A

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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: ENGAGE BUSH 2			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_EB_133_A4			
APPRVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING			
THIRD ANGLE PROJECTION:							
				MATERIAL: PLAIN CARBON STEEL			
				SCALE: 2:1			
				SHEET 133			
				WEIGHT: 95.53 g			
				REVISION: A			

NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

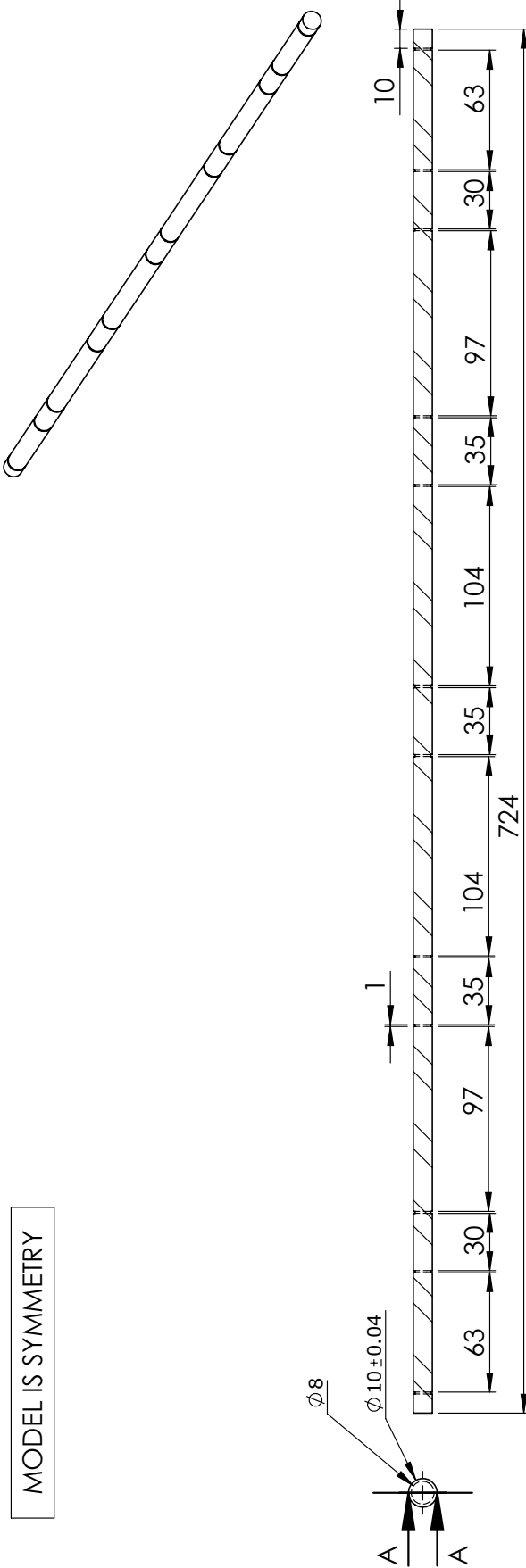


SECTION A-A
SCALE 1 : 3


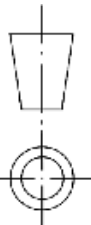
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: BED SOIL LEVELLER PIPE		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_BSLP_134_A4		REVISION: A	
APPRVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	FINDING METHOD: SHOP		WEIGHT: 265.53 g	
THIRD ANGLE PROJECTION:						MATERIAL: PVC PLASTICIZED	
				SCALE: 1:3		SHEET 134	

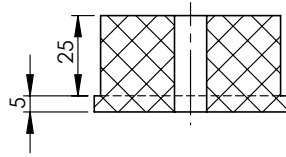
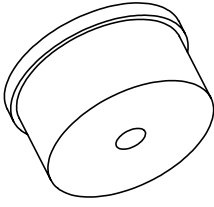
NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY

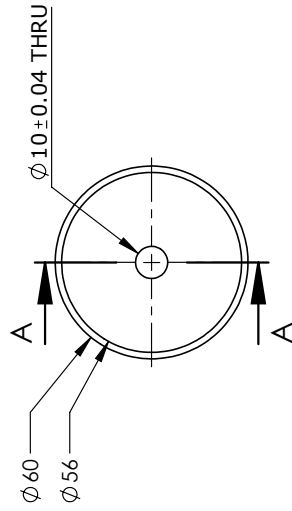



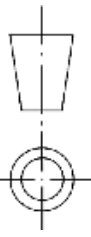
SECTION A-A
SCALE 1 : 3

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
DETAILS		NAME	SIGNATURE	DATE	FINISH:	NONE
DRAWN	MD. SHAFIQUL ISLAM	M S I	M S I	20/FEB/2024	FIRST ISSUED:	8 FEB 2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	M M H	25/FEB/2024	TITLE: BRRI AUTO SEED SOWER MACHINE	
APPR'D	DR. AKM SAIFUL ISLAM	A S I	A S I	30/FEB/2024	DRG. NAME: BED SOIL LEVELLER SHAFT	
THIRD ANGLE PROJECTION:				DWG NO: ASSM_BSLS_135_A4		REVISION:
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED		MANUFACTURING METHOD: MACHINING		MATERIAL: PLAIN CARBON STEEL		A
		SCALE: 1:2		SHEET 135		A
		WEIGHT: 440.71 g				




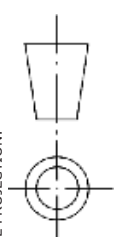
SECTION A-A
SCALE 1 : 2



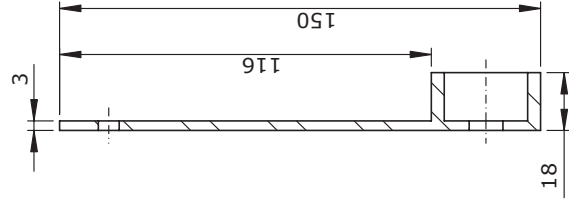
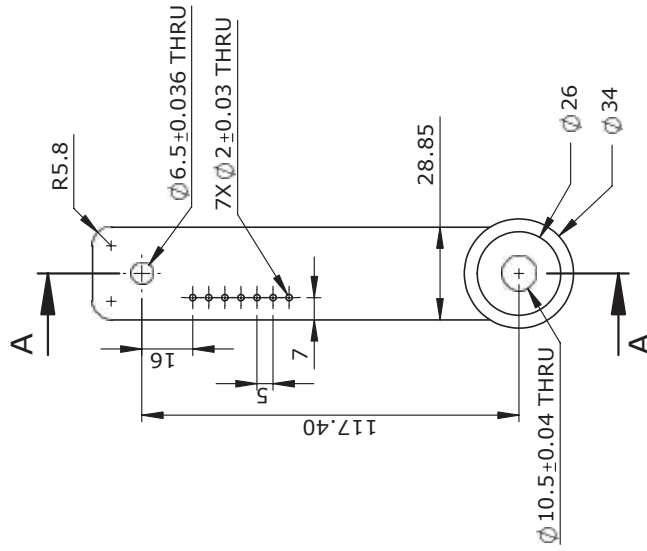
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE			BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
			SFMRA PROJECT, FMPHT DIVISION		FINISH: NONE
DETAILS	NAME	SIGNATURE	DATE	FIRST ISSUED: 8 FEB 2024	
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	TITLE: BRRI AUTO SEED SOWER MACHINE	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DRG. NAME: BED SOIL LEVELLER COLLAR BUSH	
APPVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	DWG NO: ASSM_BSLB_136_A4	
THIRD ANGLE PROJECTION:					
<p>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</p>			MANUFACTURING METHOD: MACHINING		
			MATERIAL: NYLON		WEIGHT: 84.36 g
			SCALE: 1:1		REVISION: A
			SHEET 136		



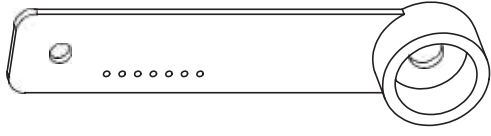
BED SOIL LEVELLER BEARING
 BEARING NO-6000 DIMENTION
 OD26 X IN10 X W8


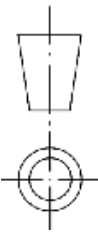
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB, 2024	DRG. NAME: BED SOIL LEVELLER BEARING		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB, 2024	DWG NO: ASSM_BSLB_137_A4		WEIGHT: 120 g	
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB, 2024	OUTSOURCING : VENDOR		REVISION: A	
THIRD ANGLE PROJECTION:						SHEET 137	
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: STAINLESS STEEL(FERRITIC)		SCALE: 2:1	

MODEL IS SYMMETRY



SECTION A-A


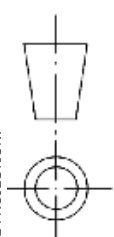


		BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$ * DOES NOT APPLY TO HOLE SIZE		TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE FIRST ISSUED: 8 FEB 2024
DETAILS	NAME MD. SHAFIQUL ISLAM	SIGNATURE M S I	DATE 20/FEB/2024	
DRAWN DR. MD. MOSHARRAF HOSSAIN	M P H	M P H	25/FEB/2024	
APP'VD DR. AKM SAIFUL ISLAM	A S I	A S I	30/FEB/2024	
THIRD ANGLE PROJECTION:				
DRG. NAME: BED SOIL LEVELLER BEARING HOUSE		DWG NO: ASSM_BSLB_138_A4		
MANUFACTURING METHOD: MACHINING & WELDING		MATERIAL: PLAIN CARBON STEEL		
SCALE: 1:2		SHEET 138		WEIGHT: 141.38 g REVISION: A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED




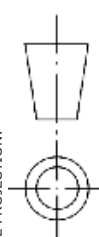
TENSION SPRING
 OUTER DIA: 10MM
 LENGHT: 75MM
 WIRE DIA: 1MM

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 AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	2/FEB,2024	DRG. NAME: SOIL LEVELLER SPRING		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB, 2024	DWG NO: ASSM_SLS_139_A4		WEIGHT: 33.98 g	
APPVD	DR. AKM SAJFUL ISLAM	A S I	3/FEB, 2024	OUTSOURCING : VENDOR		A4	
THIRD ANGLE PROJECTION:						REVISION: A	
				SCALE: 1:1		SHEET 139	
				MATERIAL: AISI 1010 STEEL			

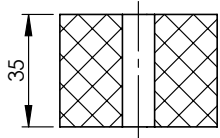
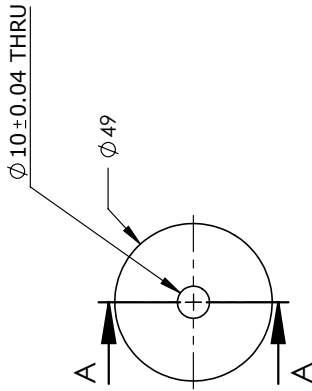
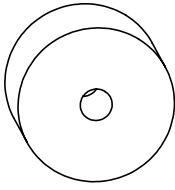
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

BED SOIL LEVELLER CIRCLIP LOCK
 APPROX DIMENTION OD15 X IN 8 X W1
 QUANTITY-2


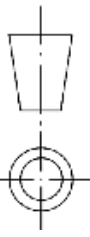


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	FINISH: NONE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB,2024	FIRST ISSUED: 8 FEB 2024			
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB, 2024	TITLE: BRRI AUTO SEED SOWER MACHINE			
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB, 2024	DRG. NAME: BED SOIL LEVELLER CIRCLIP LOCK			
THIRD ANGLE PROJECTION:							
			DWG NO: ASSM_BSLC_140_A4				
			OUTSOURCING : VENDOR				
			MATERIAL: AISI 1010		WEIGHT: 25 g		A4
			SCALE: 1:1		SHEET 140		REVISION: A

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

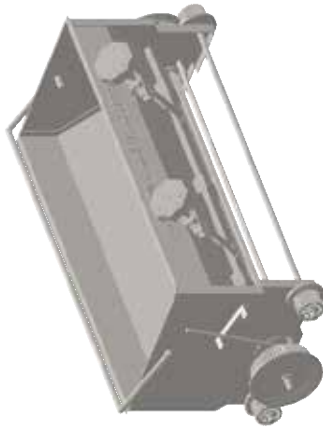



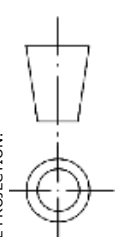
SECTION A-A
SCALE 1 : 2

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		SIGNATURE		DATE		FINISH: NONE	
DRAWN		MD. SHAFIQUL ISLAM		M S I		FIRST ISSUED: 8 FEB 2024	
CHKD		DR. MD. MOSHARRAF HOSSAIN		M M H			
APPRVD		DR. AKM SAIFUL ISLAM		A S I			
THIRD ANGLE PROJECTION:				TITLE: BRRI AUTO SEED SOWER MACHINE			
				DRG. NAME: BED SOIL LEVELLER BUSH			
				DWG NO: ASSM_BSLB_141_A4			
				MANUFACTURING METHOD: MACHINING			
				MATERIAL: NYLON		WEIGHT: 72.74 g	
				SCALE: 1:1		SHEET 141	
						REVISION: A	

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

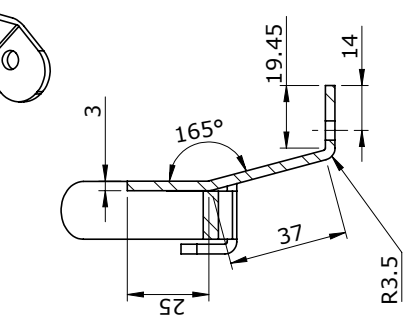
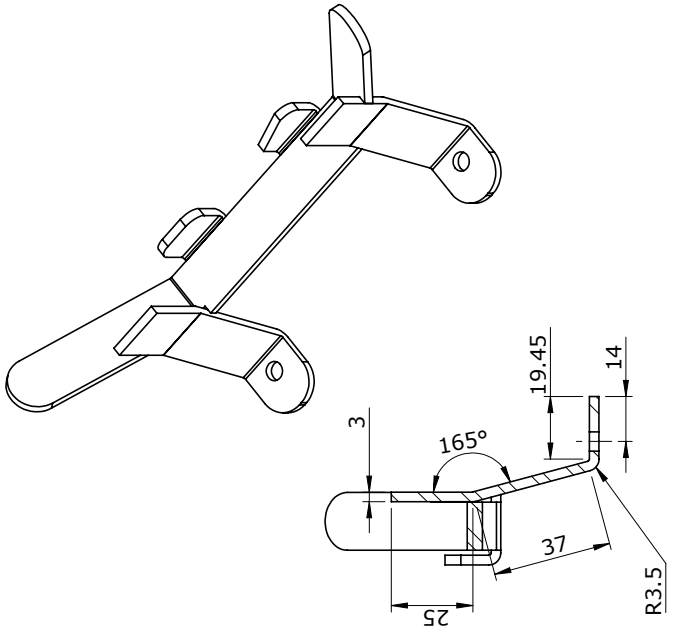
BRRI MANUAL SEED SOWER



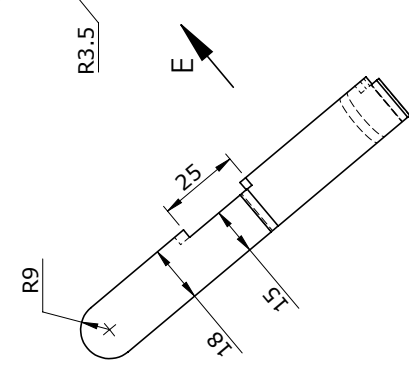
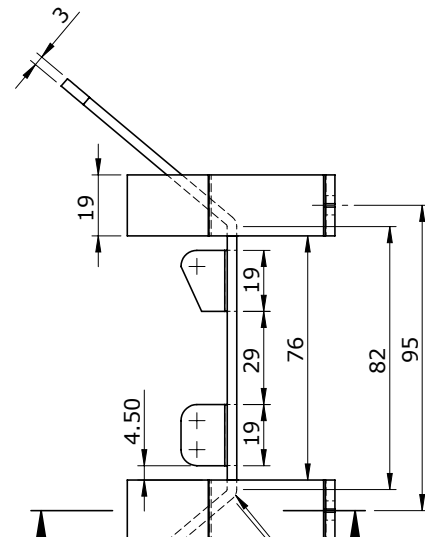
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE			BANGLADESH RICE RESEARCH INSTITUTE		DO NOT SCALE DRAWING
			SFMRA PROJECT, FMPHT DIVISION		
DETAILS			SIGNATURE	DATE	FIRST ISSUED: 8 FEB 2024
DRAWN	MD. SHAFIQUL ISLAM	M S I		20/FEB/2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H		25/FEB/2024	TITLE: BRRI AUTO SEED SOWER MACHINE
APPRD	DR. AKM SAIFUL ISLAM	A S I		30/FEB/2024	
THIRD ANGLE PROJECTION:					
			DRG. NAME: BRRI MANUAL SEED SOWER		
			DWG NO: ASSM_BMSS_142_A4		
			OUTSOURCING : VENDOR		
			WEIGHT: 12,394.53 g		
			SCALE: 1:10		
			SHEET 142		
			REVISION: A		

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY FRONT AND SECTION OF FRONT VIEW HAS SHOWN IN THIS SHEET.
 *CHECK NEXT PAGE FOR ALL VIEWS.



SECTION A-A
 SCALE 1 : 2

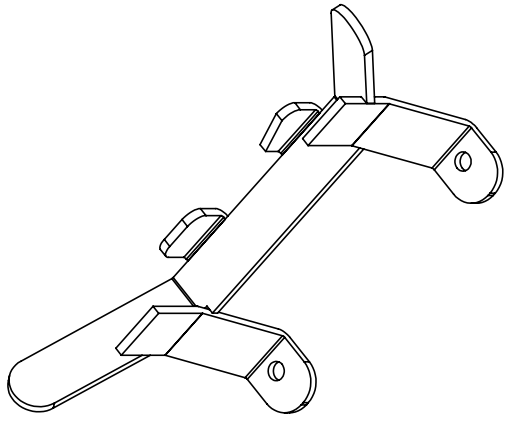
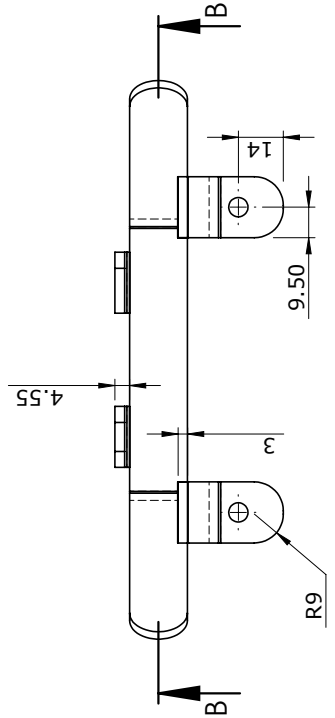
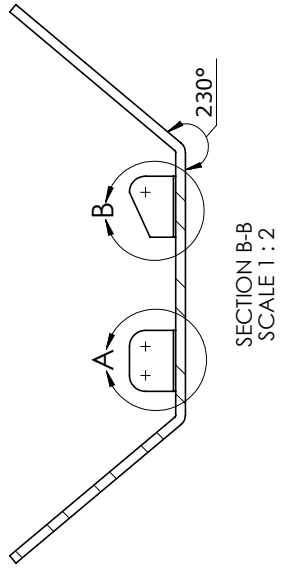
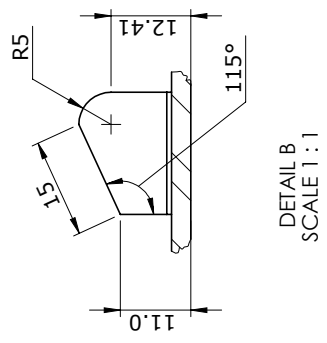
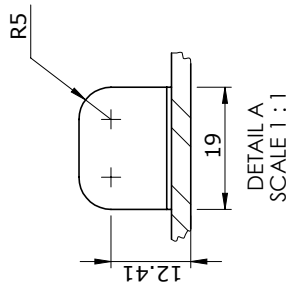


AUXILIARY VIEW E
 SCALE 1 : 2

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

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
DRAWN	MD. SHAFIQUL ISLAM	M S I	[Signature]	20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	[Signature]	25/FEB/2024
APPRVD	DR. AKM SAIFUL ISLAM	A S I	[Signature]	30/FEB/2024
THIRD ANGLE PROJECTION:		TITLE: BRRI AUTO SEED SOWER MACHINE		
[Third Angle Projection Symbol]		DRG. NAME: MANUAL SEED SOWER BASE		
		DWG NO: ASSM_MSSB_143_A4		
		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING		
		MATERIAL: PLAIN CARBON STEEL	WEIGHT: 176.23 g	A4
		SCALE: 1:2	SHEET 143	REVISION: A

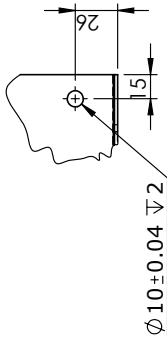
N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY TOP AND SECTION OF TOP VIEW
 HAS SHOWN IN THIS SHEET.
 *SHEET THICKNESS: 3mm



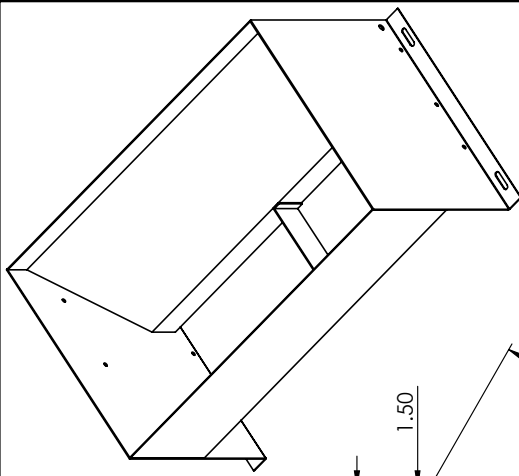
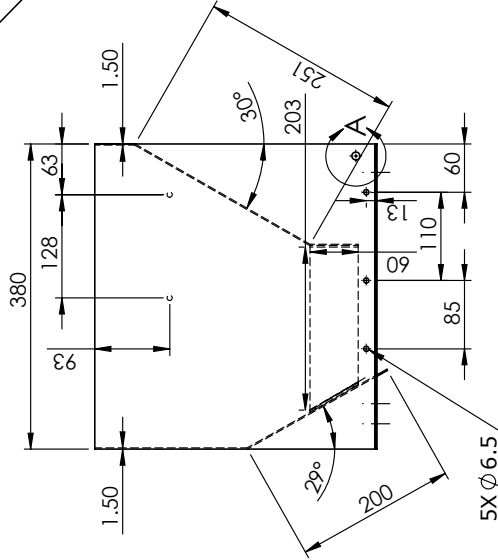
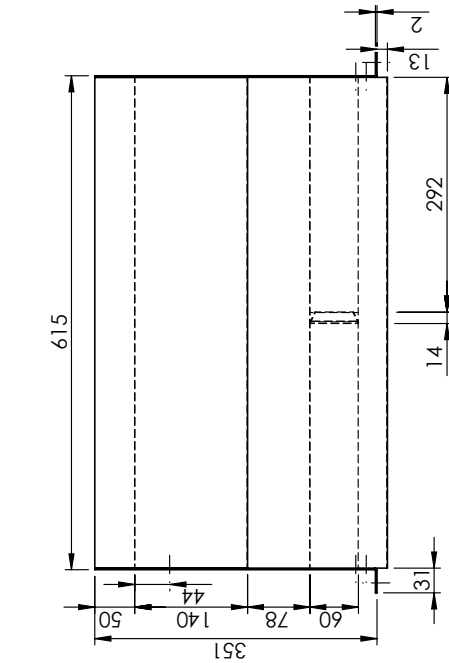
DWG NO: ASSM_MSSB_143_A4
 SHEET NO: 144
 SCALE : 1:2

NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY FRONT AND RIGHT VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.
 *CHECK NEXT PAGE FOR TOP VIEW.
 *SHEET THICKNESS: 2mm AND 1.5mm



DETAIL A
 SCALE 1 : 4



UNLESS OTHERWISE SPECIFIED:
 STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER
 MILLIMETER: ± 0.1, ANGULAR: ± 0.05°
 * DOES NOT APPLY TO HOLE SIZE



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 SFMRA PROJECT, FMPHT DIVISION

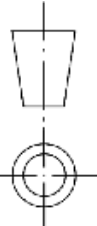
DO NOT SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB/2024
APPRVD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: TOP SOIL HOPPER

DWG NO: ASSM_TSH_145_A4



NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MANUFACTURING METHOD: MACHINING, MOLDING, BENDING & WELDING

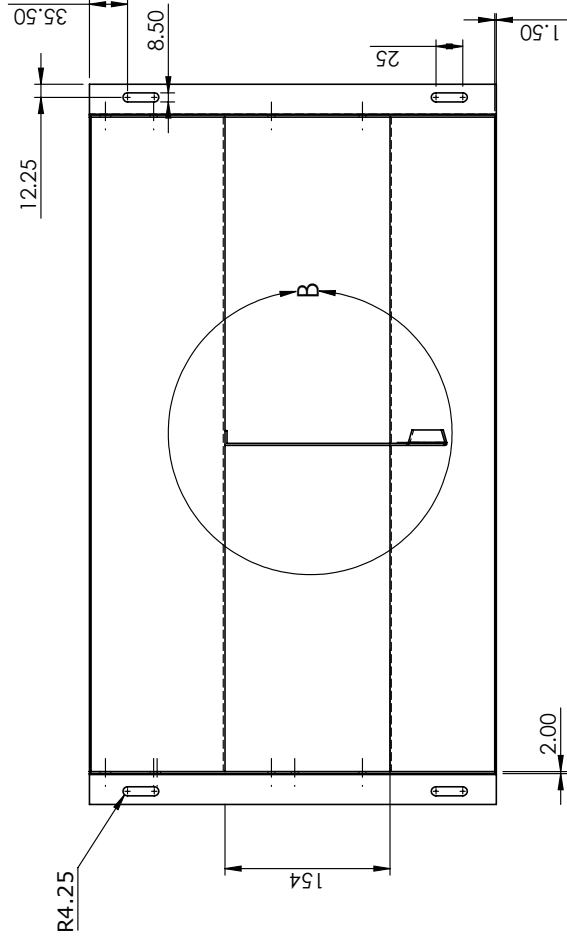
MATERIAL: PLAIN CARBON STEEL

WEIGHT: 10042.38 g

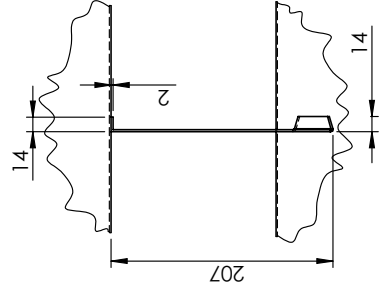
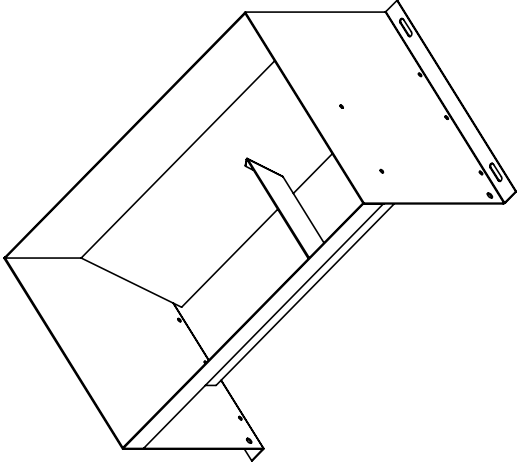
SHEET 145

REVISION: A

N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY TOP VIEW DIMENSIONS HAS
 SHOWN IN THIS SHEET.
 *SHEET THICKNESS: 2mm and 1.5mm



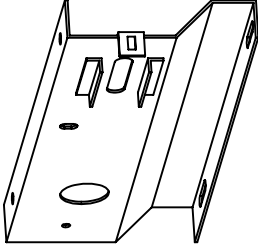
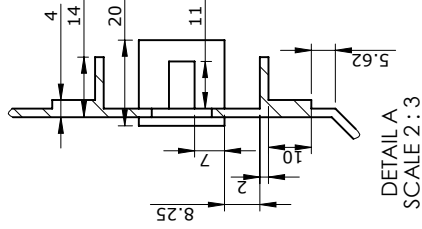
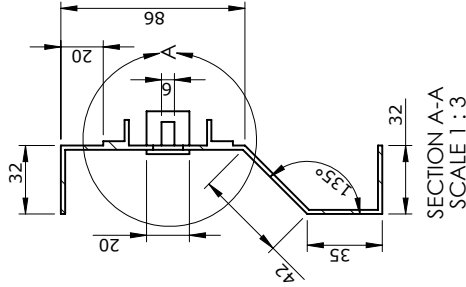
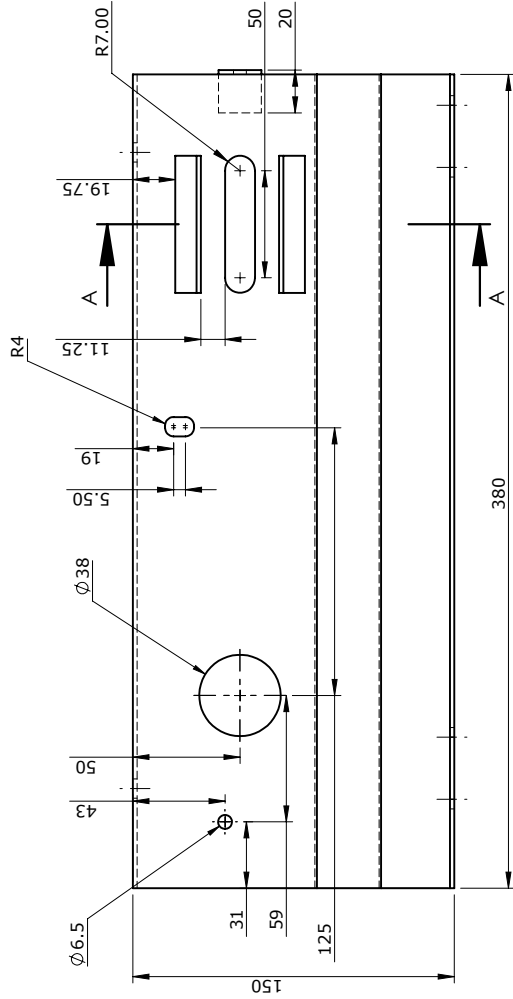
ISOMETRIC OF
 LEFT SIDE VIEW




DETAIL B
 SCALE 1 : 6

DRAWING NO: ASSM_TSH_145_A4
 SHEET NO: 146
 SCALE: 1:8

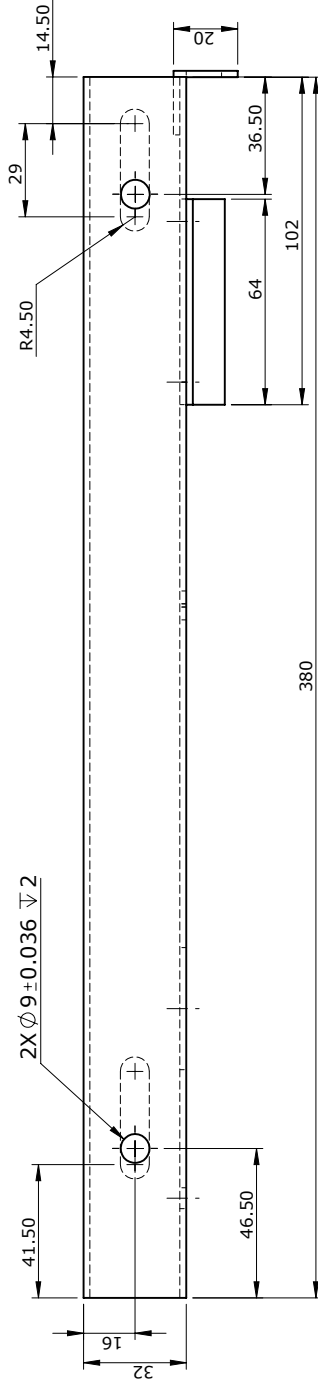
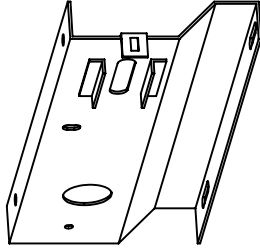
N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY FRONT AND SECTION FROM FRONT
 VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.
 *CHECK NEXT PAGE FOR ALL VIEWS.
 *SHEET THICKNESS: 2mm



		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		DETAILS NAME DRAWN MD. SHAFIQUL ISLAM CHKD DR. MD. MOSHARRAF HOSSAIN APPVD DR. AKM SAIFUL ISLAM	SIGNATURE M S I M H H A S I	FINISH: NONE FIRST ISSUED: 8 FEB 2024
TITLE: BRRI AUTO SEED SOWER MACHINE		DRG. NAME: TOP SOIL HOPPER BASE		
DWG NO: ASSM_TSHS_147_A4		MANUFACTURING METHOD: MACHINING, BENDING & WELDING		
MATERIAL: PLAIN CARBON STEEL		WEIGHT: 1.331.34 g		A4
SCALE: 1:3		SHEET 147		REVISION: A

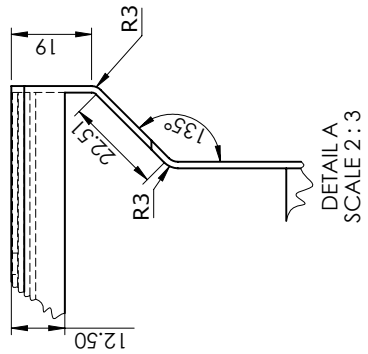
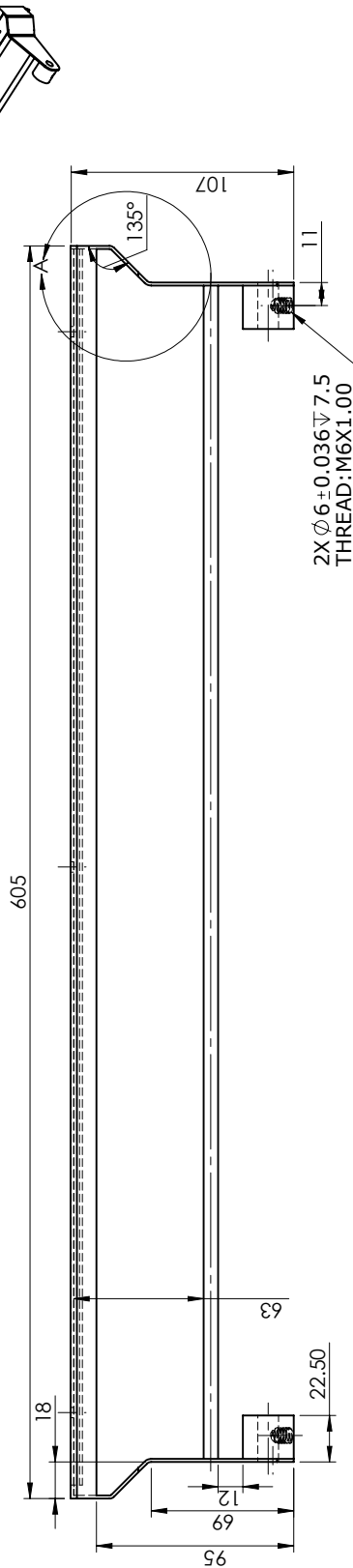
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

N.B: MODEL IS SYMMETRY.
*NOT A COMPLETE DRAWING.
*ONLY TOP VIEW DIMENSIONS
HAS SHOWN IN THIS SHEET.
*SHEET THICKNESS: 2mm




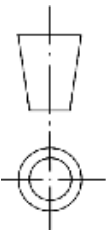
DWG NO: ASSM_TSHS_147_A4
SHEET NO: 148
SCALE: 1:2

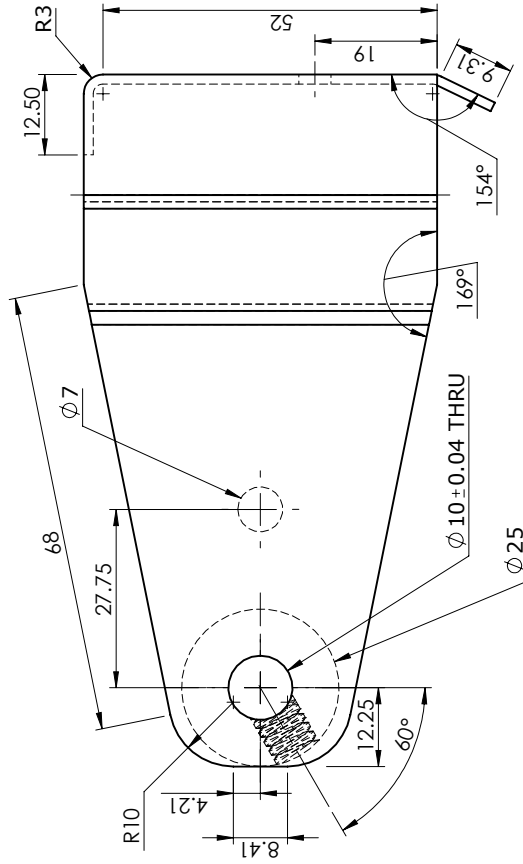
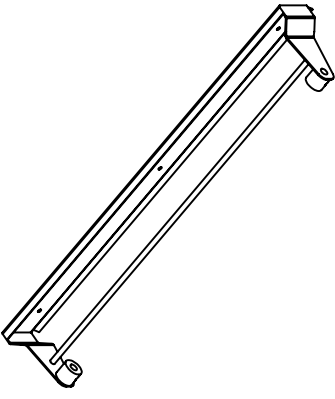
N.B: MODEL IS SYMMETRY.
 *NOT A COMPLETE DRAWING.
 *ONLY TOP VIEW HAS SHOWN IN THIS SHEET.
 *CHECK NEXT PAGE FOR ALL VIEWS.
 *SHEET THICKNESS: 1.5mm



NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

		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		DETAILS NAME DRAWN MD. SHAFIQUL ISLAM CHKD DR. MD. MOSHARRAF HOSSAIN APPVD DR. AKM SAIFUL ISLAM	SIGNATURE M S I M M H A S I	DATE 20/FEB/2024 25/FEB/2024 30/FEB/2024	FINISH: NONE
		TITLE: BRRI AUTO SEED SOWER MACHINE		FIRST ISSUED: 8 FEB 2024	
		DRG. NAME: TOP SOIL CONTROL FRAME			
		DWG NO: ASSM_TSCF_149_A4			
		MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING			
		MATERIAL: PLAIN CARBON STEEL		WEIGHT: 935.62 g	
		SCALE: 1:3		REVISION: A	
		SHEET 149		A	

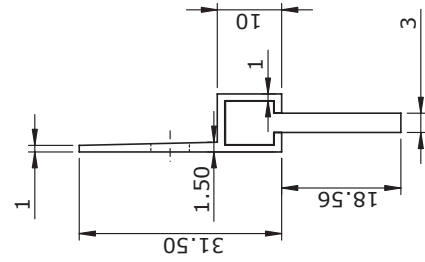




N.B: MODEL IS SYMMETRY
 *NOT A COMPLETE DRAWING.
 *ONLY RIGHTSIDE VIEW DIMENSIONS
 HAS SHOWN IN THIS SHEET.
 *SHEET THICKNESS: 1.5mm

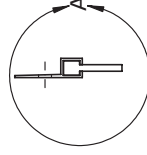
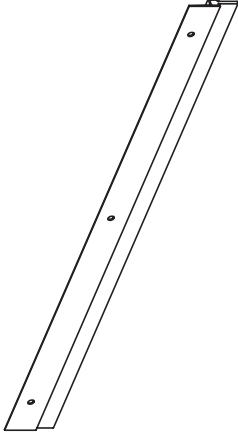
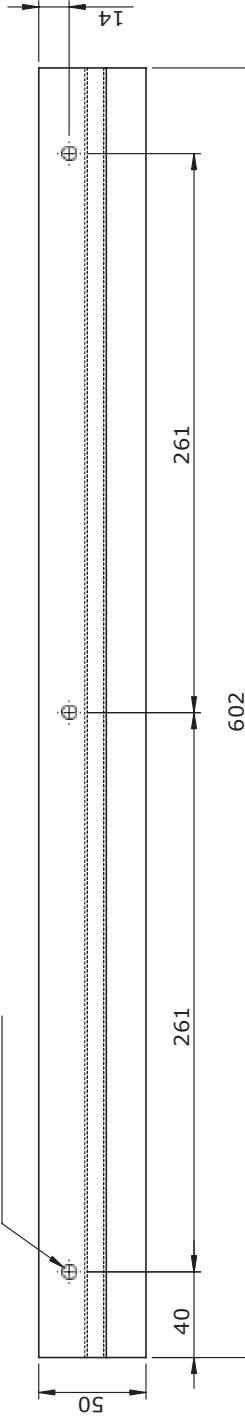
DWG NO: ASSM_TSCF_149_A4
 SHEET NO: 150
 SCALE 1:1

MODEL IS SYMMETRY



DETAIL A
SCALE 1 : 1

3X $\varnothing 6 \pm 0.036$ THRU



UNLESS OTHERWISE SPECIFIED:
STD. TOLERANCE
DIMENSIONS ARE IN MILLIMETER
MILLIMETER: ± 0.1 , ANGULAR: $\pm 0.05^\circ$
* DOES NOT APPLY TO HOLE SIZE



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SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING
FINISH: NONE
FIRST ISSUED: 8 FEB 2024

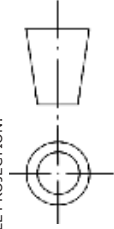
DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	26FEB,2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	29BEB,2024
APPVD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: TOP SOIL CONTROL BRUSH SET

DWG NO: ASSM_TSCB_151_A4

NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED



OUTSOURCING: VENDOR

MATERIAL: ALLOY STEEL & PLASTIC

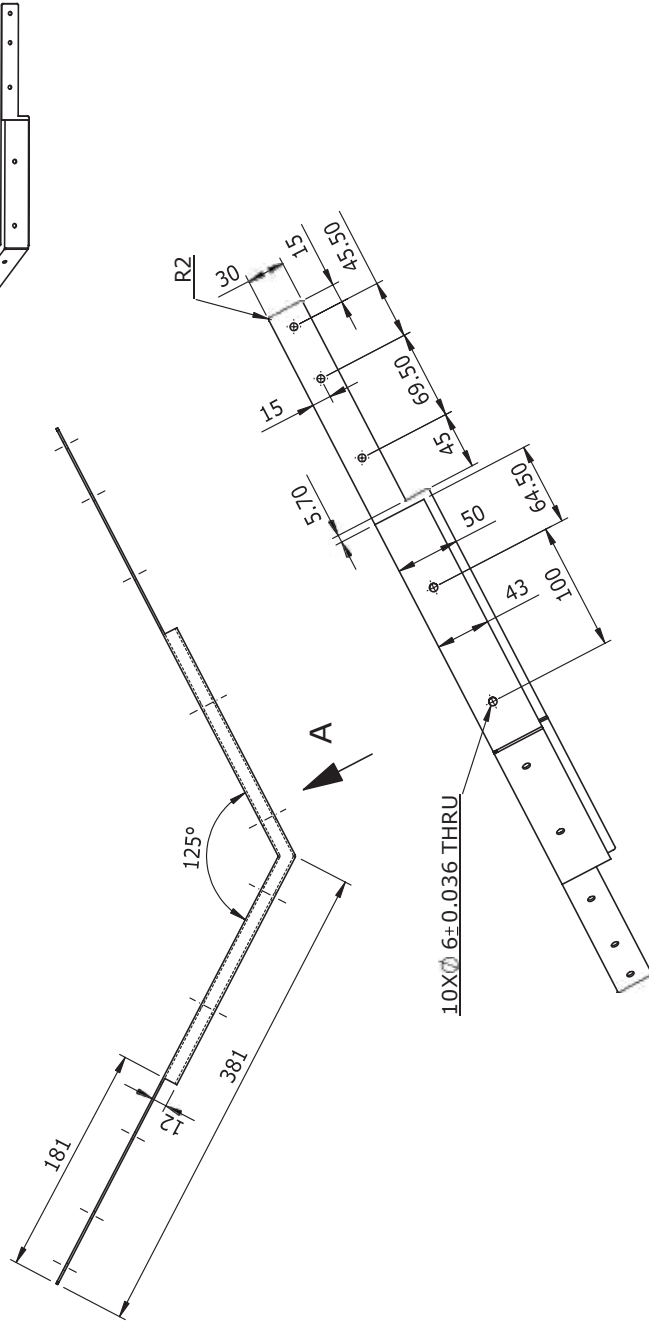
WEIGHT: 254.56 g

SCALE: 1:3


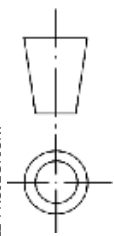
SHEET 151

REVISION: A

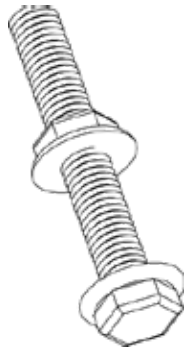
MODEL IS SYMMETRY
SHEET THICKNESS 1.5mm




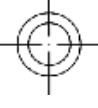
AUXILIARY VIEW A
SCALE 1 : 5

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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024	DRG. NAME: TOP SOIL LEVELLER FRAME			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024	DWG NO: ASSM_TSLF_152_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024	MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLAIN CARBON STEEL SCALE: 1:5		WEIGHT: 594.33 g SHEET 152	
				A4		REVISION: A	

TOP SOIL LEVELLER SCREW 1
 QUANTITY-4
 BOLT -M6
 LONG-38 MM
 TREAD-M6X1.00
 NUT-M6X1.00





NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

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		MD. SHAFIQU L ISLAM		M S I		FIRST ISSUED: 8 FEB 2024	
CHK'D		DR. MD. MOSHARRAF HOSSAIN		M M H			
APP'VD		DR. AKM SAIFUL ISLAM		A S I			
THIRD ANGLE PROJECTION:				TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: TOP SOIL LEVELLER SCREW 1 DWG NO: ASSM_TSL_153_A4 OUTSOURCING: VENDOR		WEIGHT: 49.01 g	
				MATERIAL: PLAIN CARBON STEEL		SHEET 153	
				SCALE: 1:1		REVISION: A	

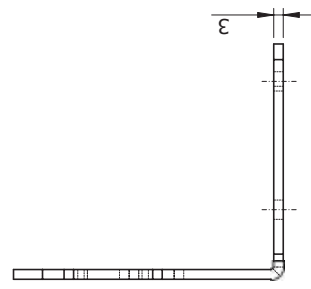
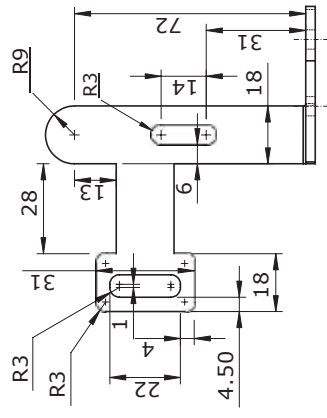
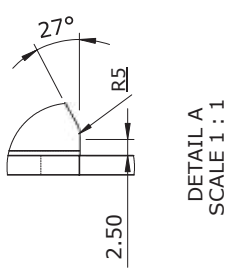
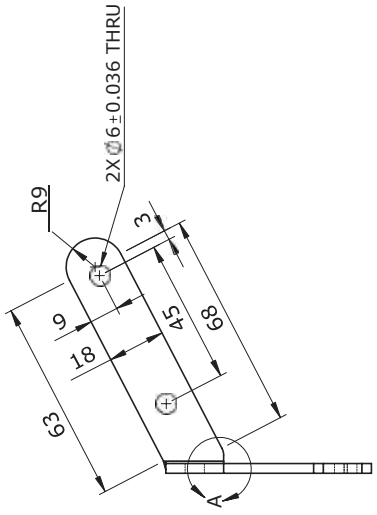
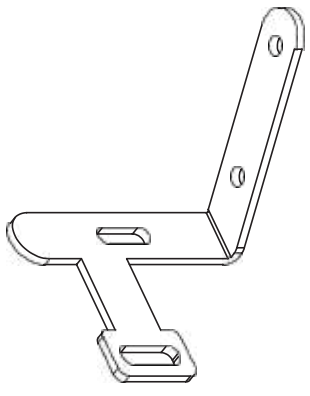
TOP SOIL LEVELLER SCREW 2
 QUANTITY-46
 BOLT -M6
 LONG-18 MM
 TREAD-M6X1.00
 NUT-M6X1.00


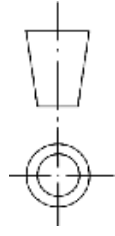


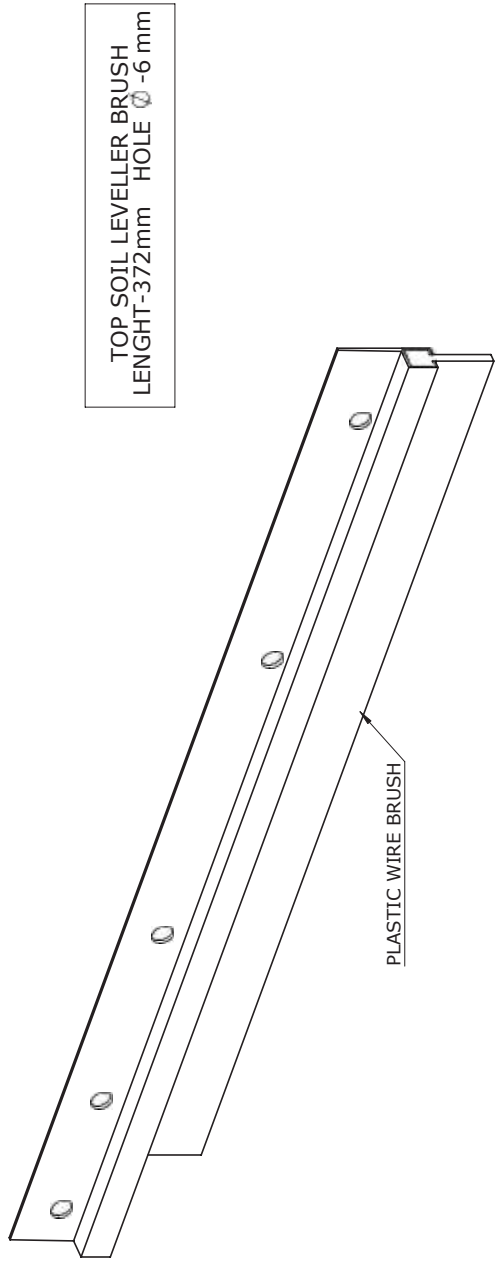
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

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		MD. SHAFIQUL ISLAM		M S I		FIRST ISSUED: 8 FEB 2024	
CHK'D		DR. MD. MOSHARRAF HOSSAIN		M M H			
APP'VD		DR. AKM SAIFUL ISLAM		A S I			
THIRD ANGLE PROJECTION:				TITLE: BRRI AUTO SEED SOWER MACHINE DRG. NAME: TOP SOIL LEVELLER SCREW 2 DWG NO: ASSM_TSLs_154_A4 OUTSOURCING: VENDOR		WEIGHT: 30.01 g	
				MATERIAL: PLAIN CARBON STEEL		SHEET 154	
				SCALE: 1:1		REVISION: A	

MODEL IS SYMMETRY


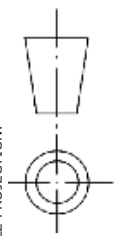


UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024	DRG. NAME: TOP SOIL LEVELLER BASE			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25/FEB/2024	DWG NO: ASSM_TSLB_155_A4			
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024	MANUFACTURING METHOD: MACHINING, BENDING & MOLDING			
THIRD ANGLE PROJECTION:				MATERIAL: PLAIN CARBON STEEL			
				WEIGHT: 83.23 g			
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				SCALE: 1:2			
				SHEET 155			
				REVISION: A			

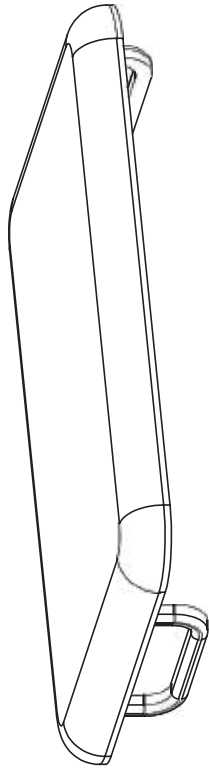



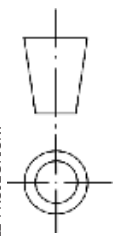
TOP SOIL LEVELLER BRUSH
LENGTH-372mm HOLE Ø -6 mm

PLASTIC WIRE BRUSH

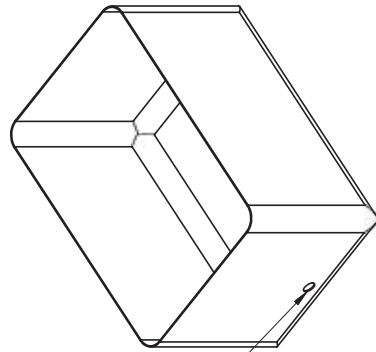
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING FINISH: NONE FIRST ISSUED: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUIL ISLAM	M S I	20FEB2024	DRG. NAME: TOP SOIL LEVELLER BRUSH FRAME			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB2024	DWG NO: ASSM_TSLBF_156_A4			
APPV'D	DR. AKM SAIFUL ISLAM	A S I	30FEB2024	OUTSOURCING: VENDOR			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: ALLOY STEEL WEIGHT: 224.93 g SCALE: 1:2 SHEET 156 REVISION: A			

WATER TANK COVER
 LENGHT-545mm
 WIDE -400mm




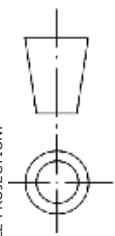
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: # 0.1, ANGULAR: # 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS		SIGNATURE		DATE		FINISH: NONE	
DRAWN		MD. SHAFIQUIL ISLAM		M S I		FIRST ISSUED: 8 FEB 2024	
CHK'D		DR. MD. MOSHARRAF HOSSAIN		M M H			
APPV'D		DR. AKM SAIFUL ISLAM		A S I			
THIRD ANGLE PROJECTION:				TITLE: BRRI AUTO SEED SOWER MACHINE			
				DRG. NAME: WATER TANK COVER			
				DWG NO: ASSM_WTC_157_A4			
				OUTSOURCING: VENDOR			
				MATERIAL: PLASTIC		WEIGHT: 413.23 g	
				SCALE: 1:5		SHEET 157	
						REVISION: A	

NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

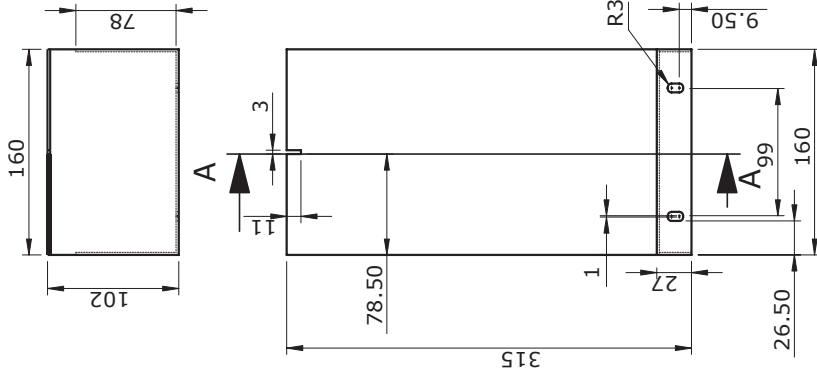


WATER TANK
TANK CAPACITY: 44 litre

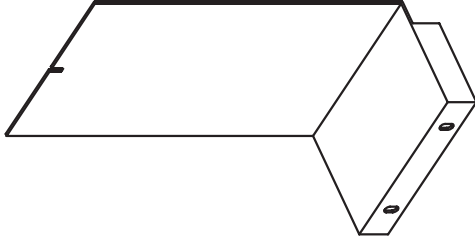
Ø 20 ± 0.05 √ 5

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: 8 FEB 2024	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE			
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB2024	DRG. NAME: WATER TANK			
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB2024	DWG NO: ASSM_WT_158_A4			
APP'VD	DR. AKYI SAFIUL ISLAM	A S I	30FEB2024	OUTSOURCING: VENDOR			
THIRD ANGLE PROJECTION:							
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED				MATERIAL: PLASTIC SCALE: 1:10 WEIGHT: 1452.92 g SHEET 158 REVISION: A			

MODEL IS SYMMETRY
 QUANTITY-2
 SHEET THICKNESS-2 mm



SECTION A-A



UNLESS OTHERWISE SPECIFIED:
 STD. TOLERANCE
 DIMENSIONS ARE IN MILLIMETER
 MILLIMETER: ± 0.1, ANGULAR: ± 0.05°
 * DOES NOT APPLY TO HOLE SIZE



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 SFMRA PROJECT, FMPHT DIVISION

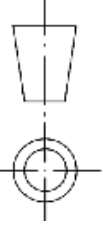
DO NOT SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20FEB,2024
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H	25FEB,2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: WATER TANK LEFT SUPPORT PLATE

DWG NO: ASSM_WTLS_159_A4



THIRD ANGLE PROJECTION:

NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

MANUFACTURING METHOD: MACHINING, BENDING, MOLDING & WELDING

MATERIAL: PLAIN CARBON STEEL

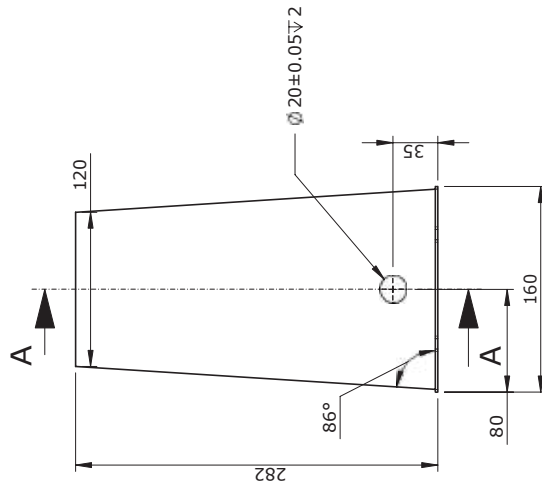
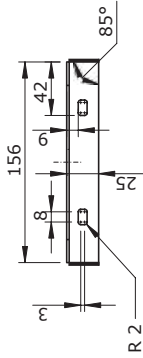
WEIGHT: 1093.79 g

SCALE: 1:5

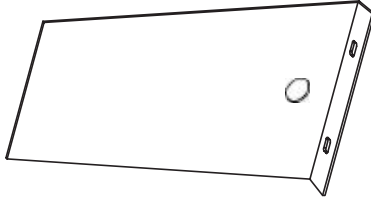
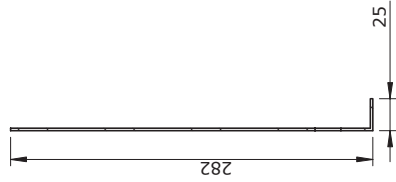
SHEET 159

REVISION: A

MODEL IS SYMMETRY
 QUANTITY-1
 SHEET THICKNESS-2 mm



SECTION A-A



UNLESS OTHERWISE SPECIFIED:
 STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER
 MILLIMETER: ± 0.1, ANGULAR: ± 0.05°
 * DOES NOT APPLY TO HOLE SIZE



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DO NOT SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUIL ISLAM	M S I	20FEB,2024
CHK'D	DR.MD.MOSHARRAF HOSSAIN	M M H	25FEB,2024
APP'VD	DR. AKM SAIFUL ISLAM	A S I	30FEB,2024

TITLE: BRRI AUTO SEED SOWER MACHINE

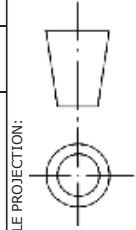
DRG. NAME: WATER TANK FRONT SUPPORT PLATE

DWG NO: ASSM_WTFS_160_A4

MANUFACTURING METHOD: MACHINING,BENDING,MOLDING & WELDING

MATERIAL: PLAIN CARBON STEEL WEIGHT: 656.37 g

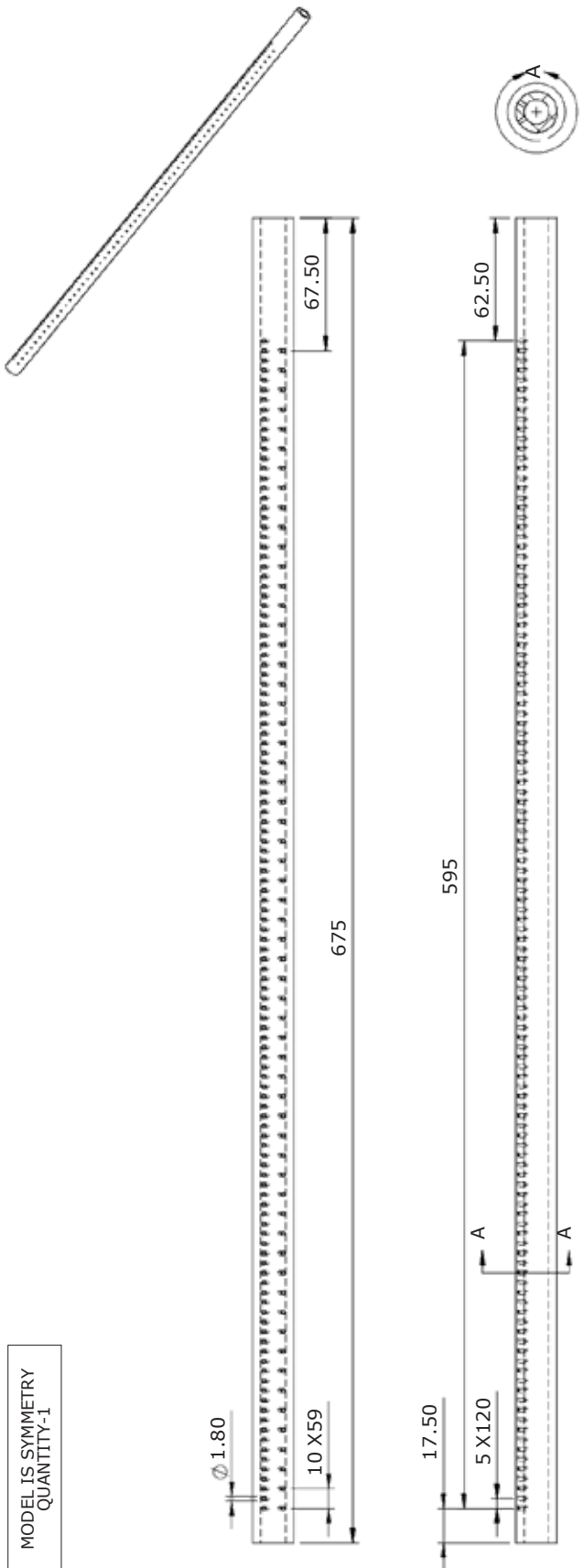
SCALE: 1:5 SHEET 160 REVISION: A



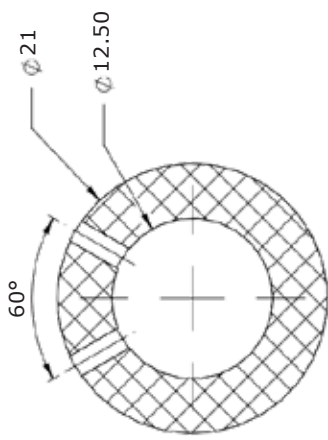
THIRD ANGLE PROJECTION:

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY
QUANTITY-1


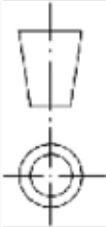


SECTION A-A
SCALE 1:3




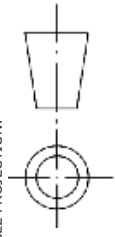
DETAIL A
SCALE 2 : 1

NOTE: DEBURR AND BREAK
SHARP EDGES ALL BENDS MIN.
RADIUS UNLESS SPECIFIED

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	
DRAWN	MD. SHAFIQUIL ISLAM	M S I		20FEB.2024	FIRST ISSUED: 8 FEB 2024	
CHK'D	DR. MD. MOSHARRAF HOSSAIN	M M H		28FEB.2024	TITLE: BRRI AUTO SEED SOWER MACHINE	
APP'VD	DR. AKM SAIFUL ISLAM	A S I		30FEB.2024	DRG. NAME: WATER DELIVERY PIPE	
THIRD ANGLE PROJECTION:				DWGNO:ASSM_WDP_161_A		
				4OUTSOURCING: VENDOR		
				MATERIAL: PLASTIC		
				SCALE: 1:3		
				SHEET 161		
				WEIGHT: 192.42 g		
				REVISION: A		

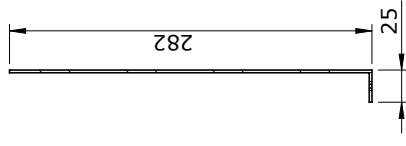
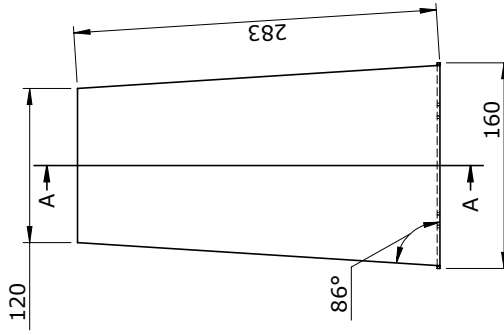
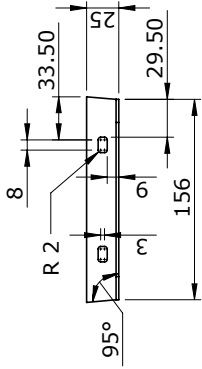
WATER TANK SCREW
 MATRIX BOLT -M8
 LONG-28 MM
 THREAD-M8X1.25
 NUT-M8X1.25



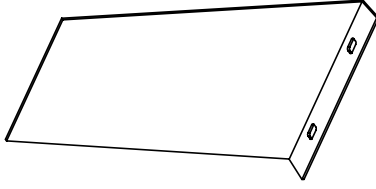
UNLESS OTHERWISE SPECIFIED: STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER MILLIMETER: ± 0.1, ANGULAR: ± 0.05° * DOES NOT APPLY TO HOLE SIZE				BANGLADESH RICE RESEARCH INSTITUTE SFMRA PROJECT, FMPHT DIVISION		DO NOT SCALE DRAWING	
DETAILS	NAME	SIGNATURE	DATE	TITLE: BRRI AUTO SEED SOWER MACHINE		FINISH: NONE	
DRAWN	MD. SHAFIQUL ISLAM	M S I	28/FEB,2024	DRG. NAME: WATER TANK SCREW		FIRST ISSUED: 8 FEB 2024	
CHKD	DR. MD. MOSHARRAF HOSSAIN	M M H	28/FEB,2024	DWG NO: ASSM_WTS_162_A4		WEIGHT: 30.01 g	
APPVD	DR. AKM SAJFUL ISLAM	A S I	30/FEB,2024	OUTSOURCING: VENDOR		REVISION: A	
THIRD ANGLE PROJECTION:						MATERIAL: PLAIN CARBON STEEL	
				SCALE: 1:1		SHEET 162	

NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

MODEL IS SYMMETRY
 QUANTITY-1
 SHEET THICKNESS-2 mm



SECTION A-A



UNLESS OTHERWISE SPECIFIED:
 STD. TOLERANCE
 DIMENSIONS ARE IN MILLIMETER
 MILLIMETER: ± 0.1, ANGULAR: ± 0.05°
 * DOES NOT APPLY TO HOLE SIZE



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 SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING
 FINISH: NONE
 FIRST ISSUED: 8 FEB 2024

DETAILS	NAME	SIGNATURE	DATE
DRAWN	MD. SHAFIQUL ISLAM	M S I	20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	25/FEB/2024
APPRD	DR. AKM SAIFUL ISLAM	A S I	30/FEB/2024

TITLE: BRRI AUTO SEED SOWER MACHINE

DRG. NAME: WATER TANK BACK SUPPORT PLATE

DWG NO: ASSM_WTBS_163_A4

MANUFACTURING METHOD: MACHINING, BENDING & WELDING

MATERIAL: PLAIN CARBON STEEL

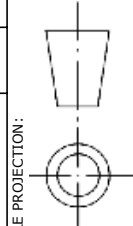
WEIGHT: 661.27 g

A4

SCALE: 1:5

SHEET 163

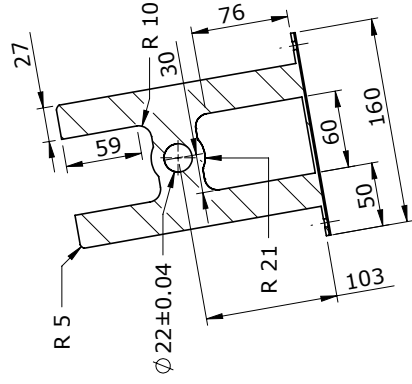
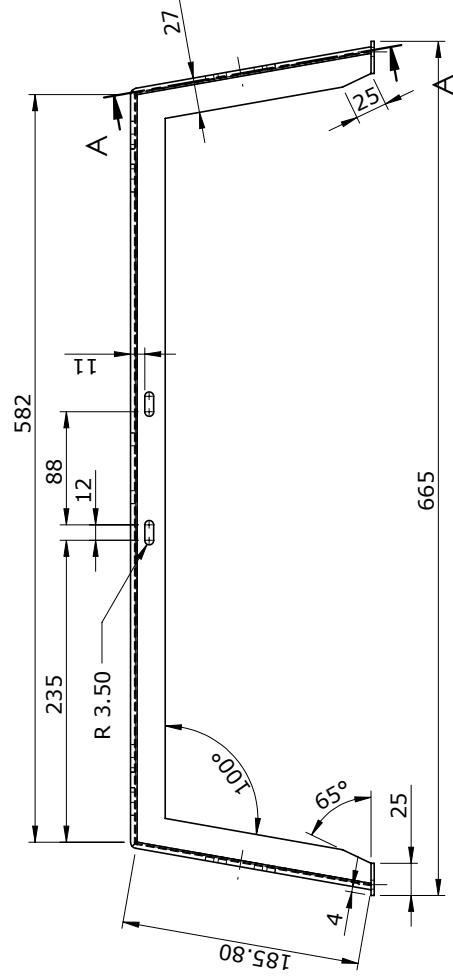
REVISION: A



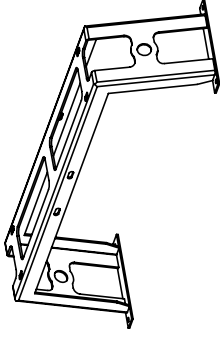
THIRD ANGLE PROJECTION:


NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

N B: NOT A COMPLETE DRAWING.
 ONLY FRONT AND SECTION FROM
 FRONT VIEW ARE SHOWN IN THIS
 SHEET. MODEL IS SYMMETRY.
 QUANTITY-1
 SHEET THICKNESS-3 mm



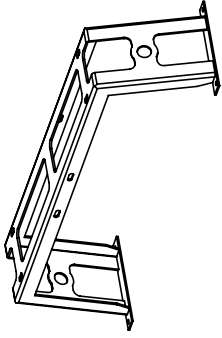
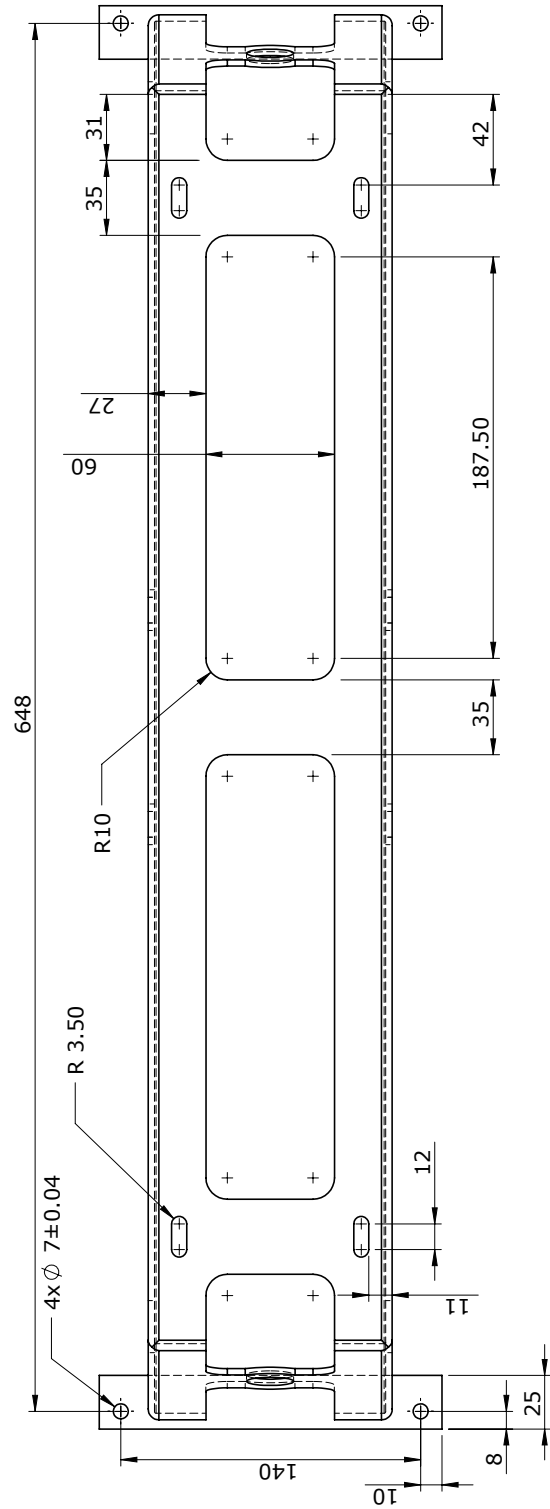
SECTION A-A
 SCALE 1 : 5



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
DRAWN	MD. SHAFIQUL ISLAM	M S I		20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H		25/FEB/2024
APPRD	DR. AKM SAIFUL ISLAM	A S I		30/FEB/2024
THIRD ANGLE PROJECTION:		TITLE: BRRI AUTO SEED SOWER MACHINE		
		DRG. NAME: WATER TANK BASE		
		DWG NO: ASSM_WTB_164_A4		
		MANUFACTURING METHOD: MACHINING, BENDING & WELDING		
		MATERIAL: PLAIN CARBON STEEL		
		SCALE: 1:5		
		SHEET 164		
		REVISION: A		
		WEIGHT: 2523.21 g		
		A4		
		8 FEB 2024		
		FINISH: NONE		
		FIRST ISSUED: 8 FEB 2024		

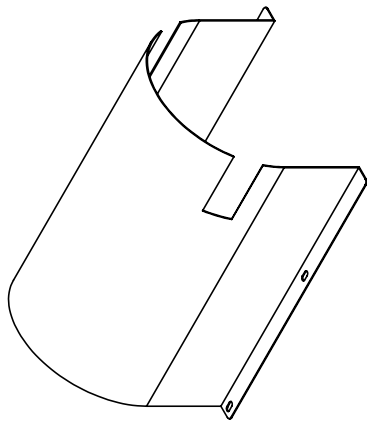
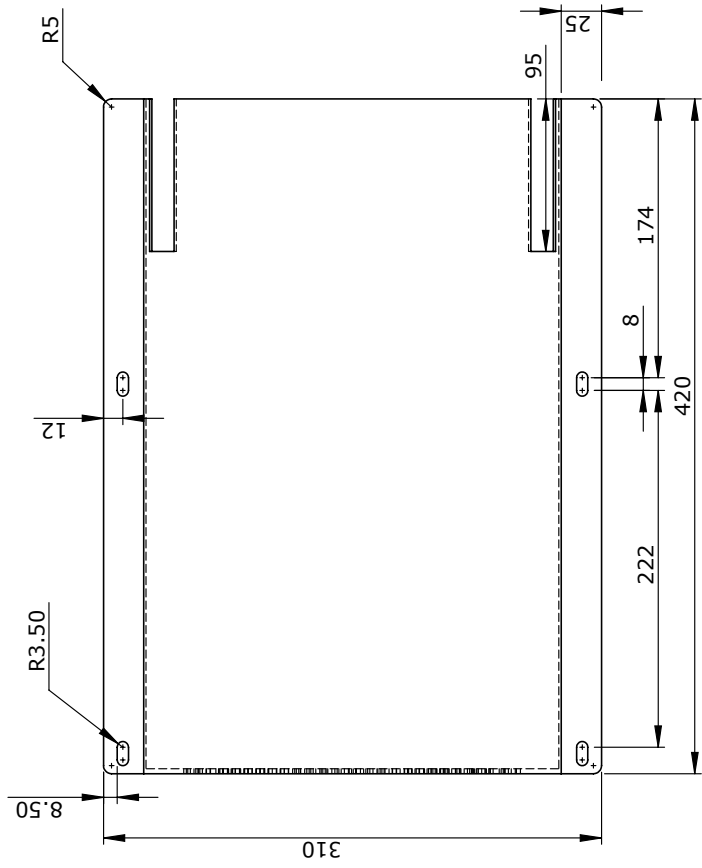
NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED


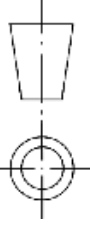
N.B: NOT A COMPLETE DRAWING.
 ONLY TOP VIEW IS SHOWN IN THIS
 SHEET. MODEL IS SYMMETRY.
 QUANTITY-1
 SHEET THICKNESS-3 mm



DWG NO: ASSM_WTB_164_A4
 SHEET NO: 165
 SCALE : 1:3

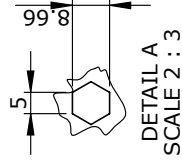
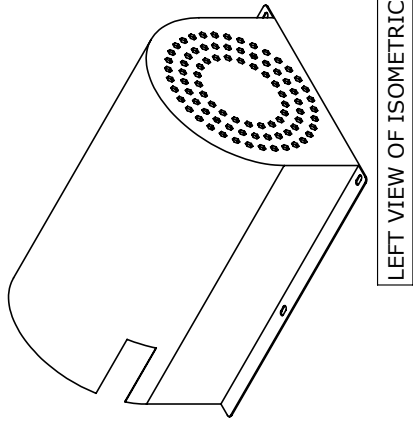
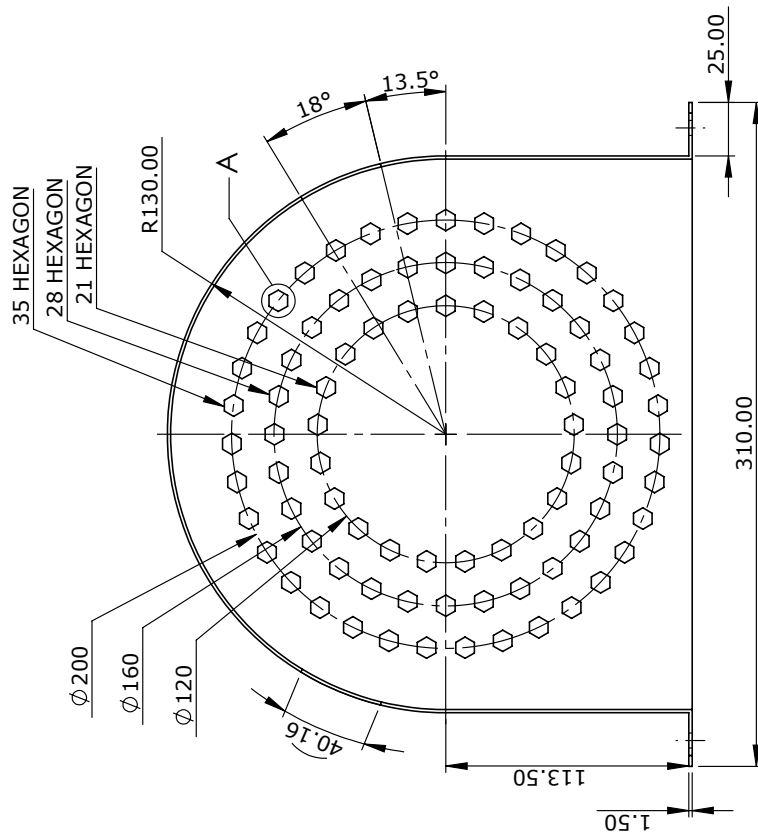
*ONLY TOP VIEW SHOWN HERE.
 *NEXT PAGE FOR ALL DIMENTION
 *MODEL IS SYMMETRY



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
DRAWN	MD. SHAFIQUL ISLAM	M S I	[Signature]	20/FEB/2024
CHKD	DR. MD. MOSHARRAF HOSSAIN	M H H	[Signature]	25/FEB/2024
APPVD	DR. AKM SAIFUL ISLAM	A S I	[Signature]	30/FEB/2024
THIRD ANGLE PROJECTION:				
TITLE: BRRI AUTO SEED SOWER MACHINE		DRG. NAME: MOTOR SAFETY GUARD		
DWG NO: ASSM_MSG_166_A4		MANUFACTURING METHOD: MACHINING, BENDING & WELDING		
MATERIAL: PLAIN CARBON STEEL		WEIGHT: 4448.15 g		
SCALE: 1:4		SHEET 166		
REVISION:		A		

NOTE: DEBURR AND BREAK
 SHARP EDGES ALL BENDS MIN.
 RADIUS UNLESS SPECIFIED

*ONLY RIGHT SIDE VIEW SHOWN HERE.
*MODEL IS SYMMETRY.



DRAWING NO : ASSM_MSG_166_A4
SHEET NO : 167
SCALE : 1 : 3