

# Technical Illustrations for the BRRI mini rice huller (Model BRRI RM2024A)



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AKM Saiful Islam

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**Bangladesh Rice Research Institute**

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# PREFACE

The publication named "Technical illustrations for the BRRM mini rice huller (Model BRRM RM2024A)" comprises comprehensive engineering drawings for every component of the BRRM mini rice huller. It provides a detailed, step-by-step guide for the fabrication process. The inclusion of sub-assembly and assembly drawings further enhances the utility of this resource, providing a holistic view of the mill's construction. Each section is thoughtfully organized to facilitate easy reference, ensuring that users can navigate through the intricacies of the drawings effortlessly. This book has been meticulously crafted to serve as an indispensable resource for individuals and professionals involved in the fabrication and assembly of the BRRM mini rice huller mill. As the global demand for efficient rice processing continues to rise, this resource aims to empower engineers, technicians, and enthusiasts with the knowledge required to construct and maintain this essential agricultural machinery. It is our hope that this book not only serves as a practical guide but also sparks innovation and improvements in the field of rice milling technology. We extend our gratitude to all contributors involved in the preparation of this valuable resource.



**Director General**  
**Bangladesh Rice Research Institute**

## **FOREWORD**

The Farm Machinery and Postharvest Technology Division of the Bangladesh Rice Research Institute is currently executing the project named "Strengthening Farm Machinery Research Activity for Mechanized Rice Cultivation (SFMRA)". Under the supervision of Dr. AKM Saiful Islam, Agricultural Engineers of BRRRI developed the mini rice huller using indigenous raw materials in a local workshop. Dr AKM Saiful Islam compiled the book " Technical illustrations for the BRRRI mini rice huller (Model BRRRI RM2024A)". From individual part details to sub-assembly and assembly drawings, this book is a holistic exploration of the BRRRI mini rice huller. This approach not only facilitates a profound understanding of the machinery but also equips readers with the knowledge needed to engage in the fabrication of the machine. Dr. Islam's dedication to advancing agricultural technology is evident in every page of this compilation. His work continues to inspire and guide future generations of engineers and researchers. I extend my sincere appreciation to Dr. AKM Saiful Islam for his remarkable contributions to this field and for compiling this invaluable resource. May this publication serve as a base for those venturing into the realm of agricultural engineering, fostering innovation and excellence in the understanding and application of rice milling technology.

(Dr. Md. Shahjahan Kabir)



**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 panicle 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 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. The main objective is to strengthen farm machinery research activities for sustainable rice cultivation. The specific objectives 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 BIRRI developed modern machinery; f) To publish the training schedule and names of the trainees in the form of a database on the BIRRI 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 BIRRI 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.

# BIRRI mini rice huller

## **Purpose of developing the machine**

**Dehusk paddy in one pass:** This suggests efficiency in the dehusking process, emphasizing the importance of completing the task in a single operation. This could lead to time and resource savings.

**Produce better quality rice:** The goal is to improve the quality of the rice produced, indicating a focus on enhancing the end product's taste, appearance, or nutritional value.

**Operate by women/men or anyone with less education:** The machine is user-friendly and require minimal training, making it accessible to individuals with varying levels of education.

**Dehusk paddy by going door to door:** This suggests a portable solution that can be taken directly to the source, offering convenience to farmers who may not have easy access to centralized processing facilities.

**Build rural entrepreneurship:** This purpose indicates a broader socio-economic goal. The aim is to empower individuals in rural areas by providing a service that supports paddy dehusking, potentially leading to the development of small businesses or entrepreneurship opportunities.

# Characterisitics

The BRRI mini rice huller possesses several characteristics that make it efficient and user-friendly.

**Blower and cyclone separator:** The machine is equipped with a blower and cyclone separator, which help in obtaining clean rice in a single pass through the huller.

**Motor Specification:** It is powered by a 5 HP motor operating at 1450 rpm, which is designed for single-phase use. Alternatively, a 8 horse power engine can be employed as a substitute for the motor.

**High hulling capacity:** The machine exhibits a substantial hulling capacity, with the ability to hull more than 270 kilograms of paddy per hour. This indicates its efficiency and suitability for processing larger quantities of rice.

**Lower broken rice:** The amount of broken rice produced by this huller is significantly lower compared to other hullers. This ensures a higher yield of whole rice grains.

**Low rice temprature:** After the hulling process, the temperature of the rice remains low. This is crucial for maintaining the quality of the rice and preventing damage due to excessive heat.

**User-friendly operation:** One of the notable features is its ease of operation. The machine is designed to be operated by individuals with minimal education or training, making it accessible for both men and women.

# Technical Specification

Name : BRRI mini rice huller

Model : RM2024A

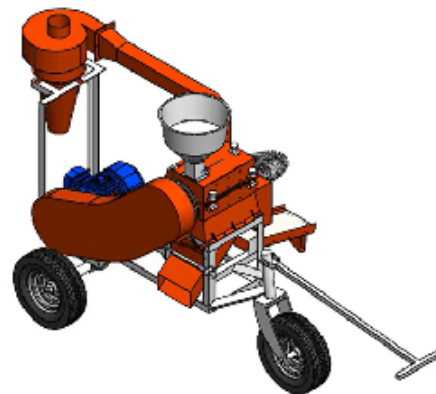
Taking, l=length, w=width, h=height, t=thickness,  $\varnothing$ =diameter, r=radius.

1. Machine l=1305mm, h=675mm, w=415mm. Made of (38x38x3) mm angle bar.
2. Motor casing l=408.5mm, w=90mm. Made of (38x38x3) mm angle bar.
3. Motor is 5HP, 1450rpm, single phase 220V.
4. Motor pulley  $\varnothing$ =254mm, t=52mm.
5. Front wheel carrying frame (locally made) wheel  $\varnothing$ =400mm and t=8mm.
6. The machine is moveable with 3 wheels (Size 4.00-8 TIRE).
7. Square bar for base handle size (25x25x3) mm l=1100mm.
8. Front wheel shaft l=204mm &  $\varnothing$ =25mm.
9. Rear wheel shaft l=890mm &  $\varnothing$ =45mm.
10. 6205 bearing is used for the mating between axle shaft and rim. Quantity 06 for 3 wheels.
11. Rear axle holder l=147mm, t=8mm.
12. Body upper shell size (w=205, l=348, h=105) mm.
13. Pressure key size  $\varnothing$ =15mm, h=100mm.
14. Pressure key holder size l=55mm, w=25mm, t=3mm, h=33mm.
15. Pressure clamp pin  $\varnothing$ =15mm, l=35mm.
16. Shell support flat bar (l=200, w=20, t=3) mm.
17. Square bar (8x8) mm l=348mm. Quantity 04.
18. Net frame size l=200mm, w=197mm, h=101. Sheet t=3mm. Quantity 02.
19. Shell size r=52mm, l=200mm, t=1.5mm. Quantity 02.
20. Net frame circular shaft  $\varnothing$ =10mm, l=200mm. Quantity 04.
21. Size (w=300, h=210, l=348, t=4) mm for the body bottom shell.
22. Engleburg huller shaft l=530mm,  $\varnothing$ =40mm.
23. Huller shell l=235mm,  $\varnothing$ =83mm.
24. Threaded lock  $\varnothing$ =65mm, h=17mm.
25. Pillow block bearing housing UCP-205. Quantity 02.
26. Husk out line size (l=366.5, w=300, h=345.4, t=1.5) mm.
27. Huller pulley (CI) size  $\varnothing$ =253mm, h=25.5mm.
28. Cleaning chamber size (l=200, w=240, h=140, t=1.5) mm.
29. Blower flange  $\varnothing$ =267mm, t=1.5mm.

30. Blower washer  $\varnothing=42\text{mm}$ ,  $t=3\text{mm}$ .
31. Blower shaft key size (7x7) mm  $l=30\text{mm}$ .
32. Blower impeller size  $\varnothing=225\text{mm}$ ,  $h=81\text{mm}$ ,  $t=1.5\text{mm}$ .
33. Blower shaft size  $\varnothing=31\text{mm}$ ,  $l=512.5\text{mm}$ .
34. Blower size ( $l=400$ ,  $w=400$ ,  $t=1.5$ ) mm area used for the blower. Blower  $h=100\text{mm}$ .
35. Pillow block bearing housing UCP-206 of quantity-02 required for the blower shaft.
36. V-pulley with 2-slots with  $\varnothing=149\text{mm}$ ,  $h=82\text{mm}$  for blower pulley.
37. ( $l=820$ ,  $h=410$ ) mm for the rectangular (80x80x1.5) mm size for the blower to cyclone line part.
38. Cyclone size ( $l=300$ ,  $w=400$ ,  $h=630$ ,  $t=1.5$ ) mm.
39. Hose pipe (PVC) inner  $=82\text{mm}$ .
40. Tension shaft  $\varnothing=24\text{mm}$ ,  $l=180\text{mm}$ .
41. Tension shaft pulley holder  $\varnothing=24.5\text{mm}$ ,  $l=169\text{mm}$ .
42. Tension bearing 6205 RS, quantity=02.
43. Tension pulley  $\varnothing=88\text{mm}$ ,  $h=45\text{mm}$ .
44. Tension washer  $\varnothing=30\text{mm}$ ,  $h=5\text{mm}$ .
45. Tension screw holder  $\varnothing=22\text{mm}$ ,  $l=47.5\text{mm}$ . Quantity 02.
46. Tension threaded rod  $\varnothing=12\text{mm}$ ,  $l=400\text{mm}$ .
47. Tension wheel  $\varnothing=30\text{mm}$ ,  $h=23.1\text{mm}$ .
48. Hopper base  $l=90\text{mm}$ ,  $w=105\text{mm}$ ,  $t=3\text{mm}$ ,  $h=137\text{mm}$ .
49. Hopper size  $\varnothing=350\text{mm}$ ,  $h=264.2\text{mm}$ ,  $t=1.5\text{mm}$ .
50. Grader body size  $l=473.5\text{mm}$ ,  $w=212\text{mm}$ ,  $h=53.5\text{mm}$ ,  $t=1.5\text{mm}$ .
51. Grader net holding angle bar (25x25x1.5) mm frame size ( $l=473.5$ ,  $w=212$ ) mm.
52. Grader net holding flat bar (25x1.5) mm frame size ( $l=473.5$ ,  $w=212$ ) mm.
53. Grader holding part ( $w=26$ ,  $l=410$ ,  $t=3$ ) mm.
54. Safety guard size  $l=1060\text{mm}$ ,  $w=801\text{mm}$ ,  $t=1.5\text{mm}$ ,  $h=100\text{mm}$ .
55. V-belt Type-B Belt numbers are B-68, B-48.

## INDEX

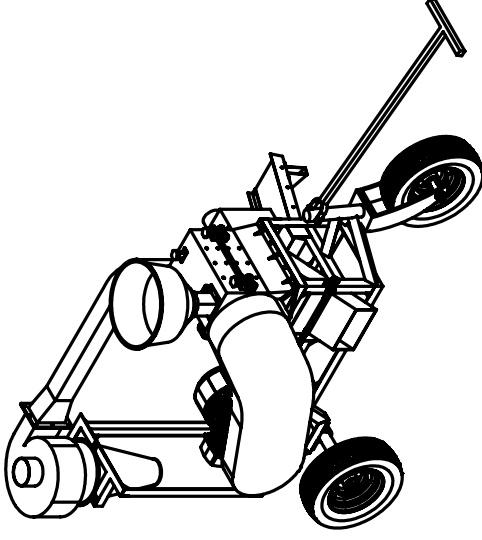
| SUB-ASSEMBLY NO | DESCRIPTION                               | SHEET NO | PAGE NO |
|-----------------|---|----------|---------|
| 1               | SUB-ASSEMBLY                              | 1-16     | 1       |
| 2               | S-1 BASE SUB-ASSEMBLY                     | 17-38    | 17      |
| 3               | S-2.A UPPER SHEEL - SUB-ASSEMBLY          | 39-54    | 39      |
| 4               | S-2.B BOTTOM SHELL - SUB-ASSEMBLY         | 55-77    | 55      |
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| 7               | S-5 HOPPER - SUB-ASSEMBLY                 | 104-107  | 104     |
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| 10              | V-BELT TYPE-B MODEL NO-68                 | 119      | 119     |
| 11              | V-BELT TYPE-B MODEL NO-48                 | 120      | 120     |





## BILL OF MATERIALS: BRRI MINI RICE HULLER 1

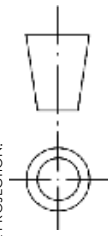
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| 1        | BASE SUB-ASSEMBLY                     | RM2024A-S1-A   | 1    |
| 2        | HUSK BLOWER TO CYCLONE - SUB-ASSEMBLY | RM2024A-S3-A   | 1    |
| 3        | BOTTOM SHELL - SUB-ASSEMBLY           | RM2024A-S2.B-A | 1    |
| 4        | TOP COVER SUB-ASSEMBLY                | RM2024A-S2.A-A | 1    |
| 5        | HOPPER - SUB-ASSEMBLY                 | RM2024A-S5-A   | 1    |
| 6        | TENSION - SUB-ASSEMBLY                | RM2024A-S4-A   | 1    |
| 7        | GRADER - SUB-ASSEMBLY                 | RM2024A-S6-A   | 1    |
| 8        | V-BELT TYPE-B MODEL NO-48             | RM2024A-88     | 1    |
| 9        | V-BELT TYPE-B MODEL NO-68             | RM2024A-87     | 1    |
| 10       | SAFETY GAURD                          | RM2024A-86     | 1    |



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   | ENGR. SHAFER JAHAN KHAN   | S J K     | 10-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M M H     | 30-MAR-2024 |
| APP'D   | DR. AKKASABUUL ISLAM      | A S I     | 16-APR-2024 |

THIRD ANGLE PROJECTION:



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

BANGLADESH RICE RESEARCH INSTITUTE  
 SFMRA PROJECT, FMPHT DIVISION

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: BRRI MINI RICE HULLER 1 - SUB-ASSEMBLY

DWG NO: RM2023-A

MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING

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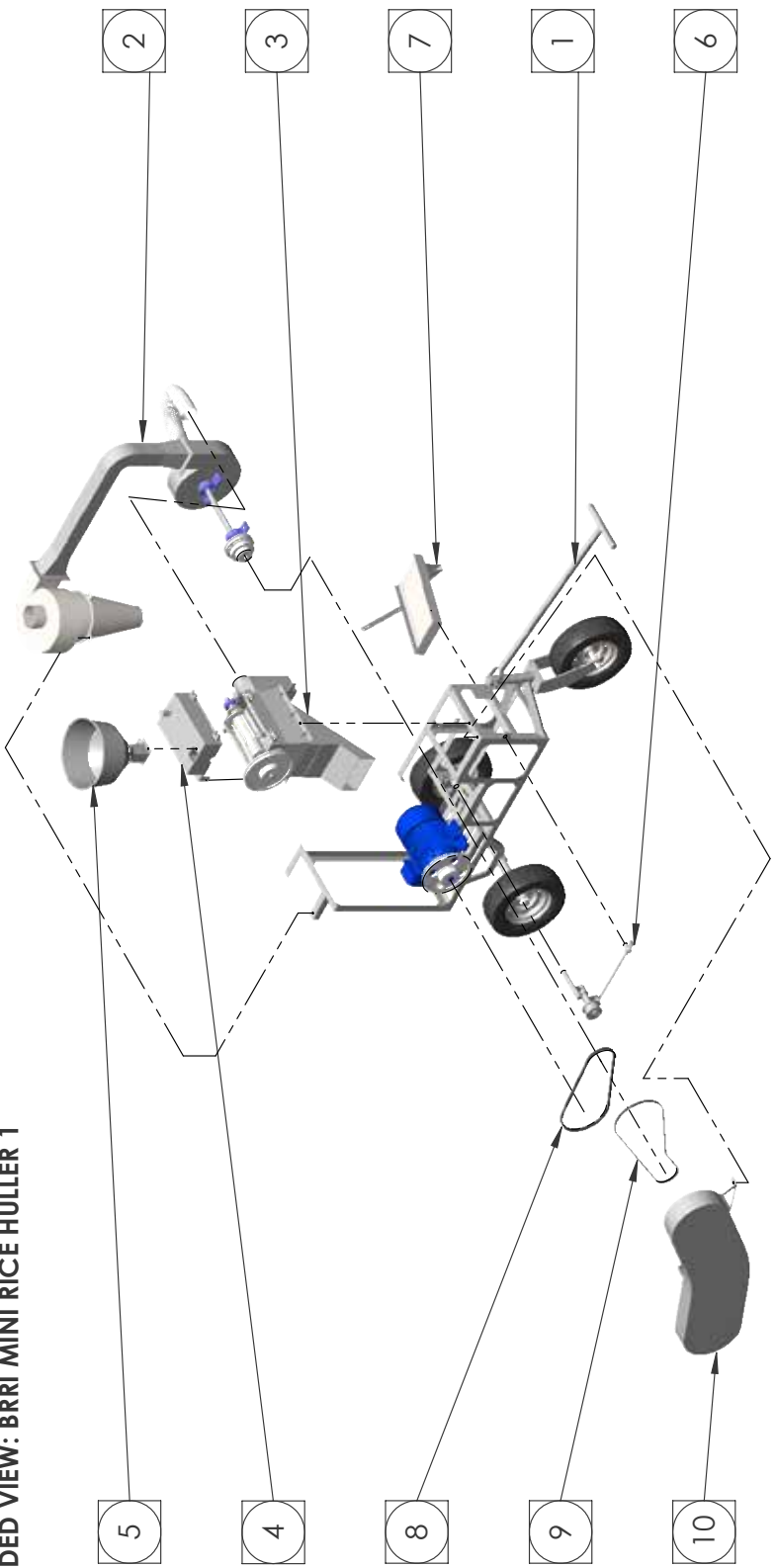
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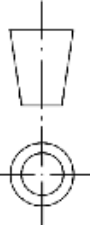
SHEET 1

REVISION: A

DO NOT SCALE DRAWING  
 FINISH: NONE  
 FIRST ISSUED: 06-FEB-2024

**EXPLODED VIEW: BRRI MINI RICE HULLER 1**

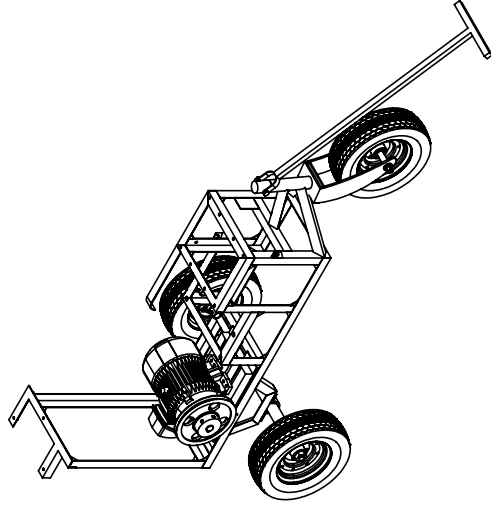



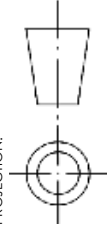
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|---|---------------------------|--|--|--|--|----------------------|--|---|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |  | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING |  |   |  |
| DETAILS   | NAME                      | SIGNATURE  | DATE   | FINISH: NONE   |  |                      |  |   |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M. H.   | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024  |  |                      |  |   |  |
| APP'D   | DR. AKKASAILUL ISLAM      | A. S. I.   | 16-APR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |  |                      |  |   |  |
| THIRD ANGLE PROJECTION:   |                           |  |  |  |  |                      |  | DRG. NAME: BRRI MINI RICE HULLER 1 - EXPLODED VIEW          |  |
|   |                           |  | DWG NO: RM2023-B   |  |  |                      |  | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING |  |
|   |                           |  | WEIGHT: 182350.68 g  |  |  |                      |  | SCALE: 1:75   |  |
|   |                           |  | SHEET 2  |  |  |                      |  | REVISION: A   |  |

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

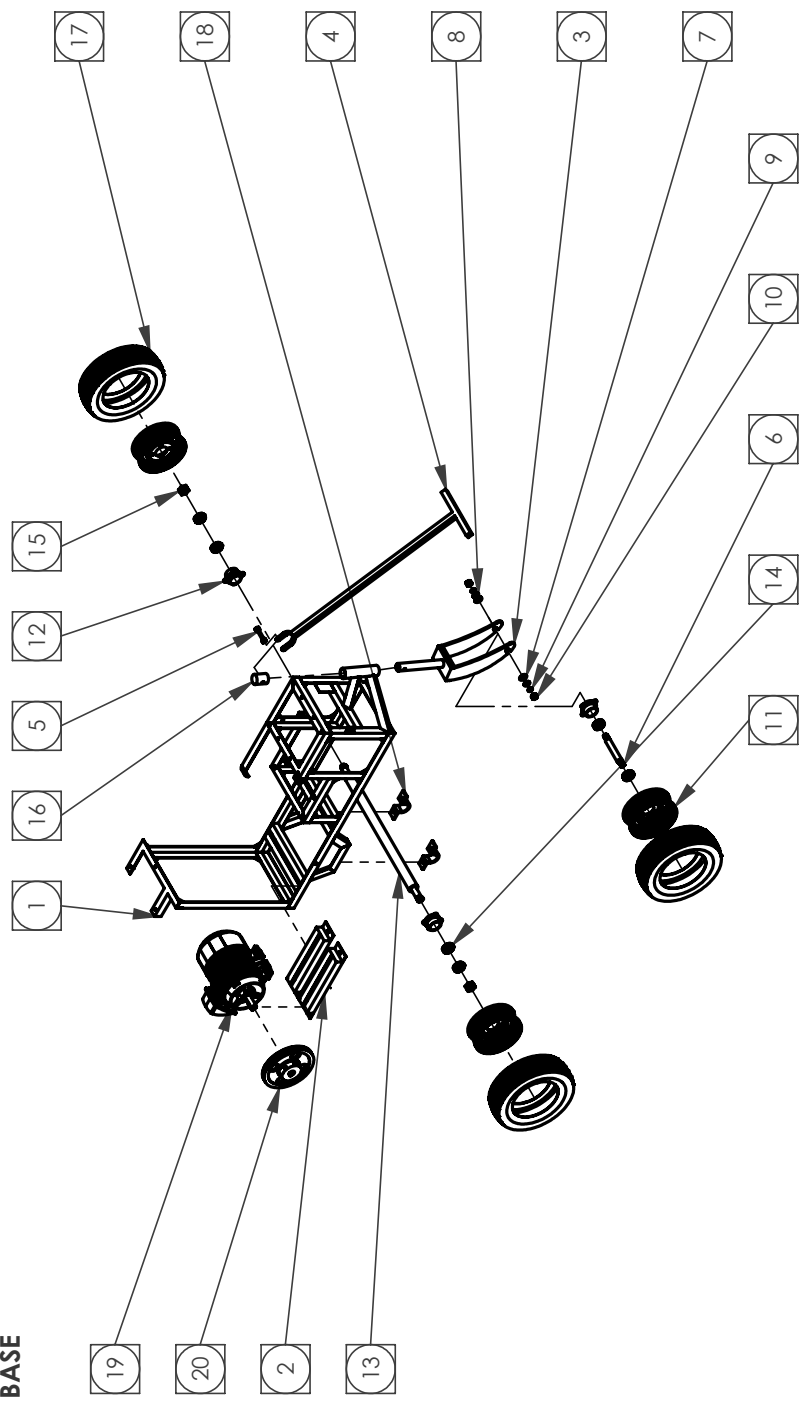
### BILL OF MATERIALS: BASE


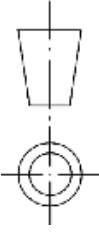
| ITEM NO. | Description                | PartNo         | MATERIAL                   | QTY. |
|----------|----------------------------|----------------|----------------------------|------|
| 1        | WELDMENTS FRAME-BASE       | RM2024A-S1-001 | Plain Carbon Steel         | 1    |
| 2        | BASE - MOTOR CASING        | RM2024A-S1-002 | Plain Carbon Steel         | 2    |
| 3        | FRONT WHEEL CARRYING FRAME | RM2024A-S1-006 | Plain Carbon Steel         | 1    |
| 4        | BASE HANDLE                | RM2024A-S1-007 | Plain Carbon Steel         | 1    |
| 5        | M10 BOLT-NUT               | RM2024A-S1-007 | Stainless Steel (ferritic) | 1    |
| 6        | RIM SHAFT FOR FRONT WHEEL  | RM2024A-S1-016 | Plain Carbon Steel         | 1    |
| 7        | WHEEL WASHER - 1           | RM2024A-S1-009 | Stainless Steel (ferritic) | 2    |
| 8        | WHEEL WASHER - 2           | RM2024A-S1-011 | Plain Carbon Steel         | 2    |
| 9        | WHEEL WASHER - 3           | RM2024A-S1-012 | Plain Carbon Steel         | 2    |
| 10       | WHEEL NUT M14 (FRONT X2)   | RM2024A-S1-010 | Plain Carbon Steel         | 2    |
| 11       | RIM                        | RM2024A-S1-014 | ASTM A36 Steel             | 3    |
| 12       | RIM HOLDING PART           | RM2024A-S1-015 | ASTM A36 Steel             | 3    |
| 13       | REAR WHEEL SHAFT           | RM2024A-S1-017 | Plain Carbon Steel         | 1    |
| 14       | 6205 RS BEARING            | RM2024A-S1-018 | Stainless Steel (ferritic) | 6    |
| 15       | WHEEL SHAFT NUT M25 (REAR) | RM2024A-S1-020 | Stainless Steel (ferritic) | 2    |
| 16       | BASE WHEEL PART - 1        | RM2024A-S1-005 | Plain Carbon Steel         | 1    |
| 17       | TIRE                       | RM2024A-S1-013 | Nylon 101                  | 3    |
| 18       | REAR AXLE HOLDER           | RM2024A-S1-019 | Plain Carbon Steel         | 2    |
| 19       | MOTOR SHIP                 | RM2024A-S1-003 | N/A                        | 1    |
| 20       | MOTOR PULLEY               | RM2024A-S1-004 | Gray Cast Iron             | 1    |



|   |  |  |                                      |   |                           |
|---|--|--|--------------------------------------|---|---------------------------|
|   |  | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION                                     |                                      | DO NOT SCALE DRAWING                              |                           |
|   |  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)  |                                      | FINISH: NONE                                      |                           |
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  | DETAILS NAME<br>DRAWN ENGR. SHAFER JAHAN KHAN<br>CHK'D DR. MD. MOSHARRAF HOSSAIN<br>APP'D DR. AKM SAIBUL ISLAM | SIGNATURE<br>S J K<br>M M H<br>A S I | DATE<br>10-FEB-2024<br>30-MAR-2024<br>16-APR-2024 | FIRST ISSUED: 06-FEB-2024 |
| THIRD ANGLE PROJECTION:                                       |  | DRG. NAME: BASE SUB-ASSEMBLY<br>DWG NO: RM2024A-S1-A   |                                      |   |                           |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING<br>WEIGHT: 83745.58 g<br>SCALE: 1:25               |                                      | SHEET 3<br>REVISION: A                            |                           |

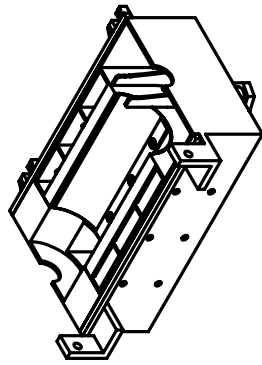
**EXPLODED VIEW: BASE**


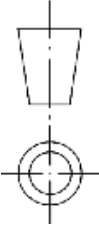


|  |  |  |   |         |   |
|--|--|--|---|---------|---|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLESIZE |    |  | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION                              |         | DO NOT SCALE DRAWING                      |
|  | DETAILS NAME SIGNATURE DATE<br>DRAWN ENGR. SHAFER JAHAN KHAN S.J.K 10-FEB-2024<br>CHK'D DR. MD. MOSHARRAF HOSSAIN M.M.H 30-MAR-2024<br>APP'VD DR. AKM SAIBUL ISLAM A.S.I 16-APR-2024 |  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)<br>DRG. NAME: BASE- EXPLODED VIEW<br>DWG NO: RM2024A-S1-B |         | FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |
|    |  |  | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING<br>WEIGHT: 83745.58 g<br>SCALE: 1:20        |         |   |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  |  |   | SHEET 4 | REVISION: A                               |

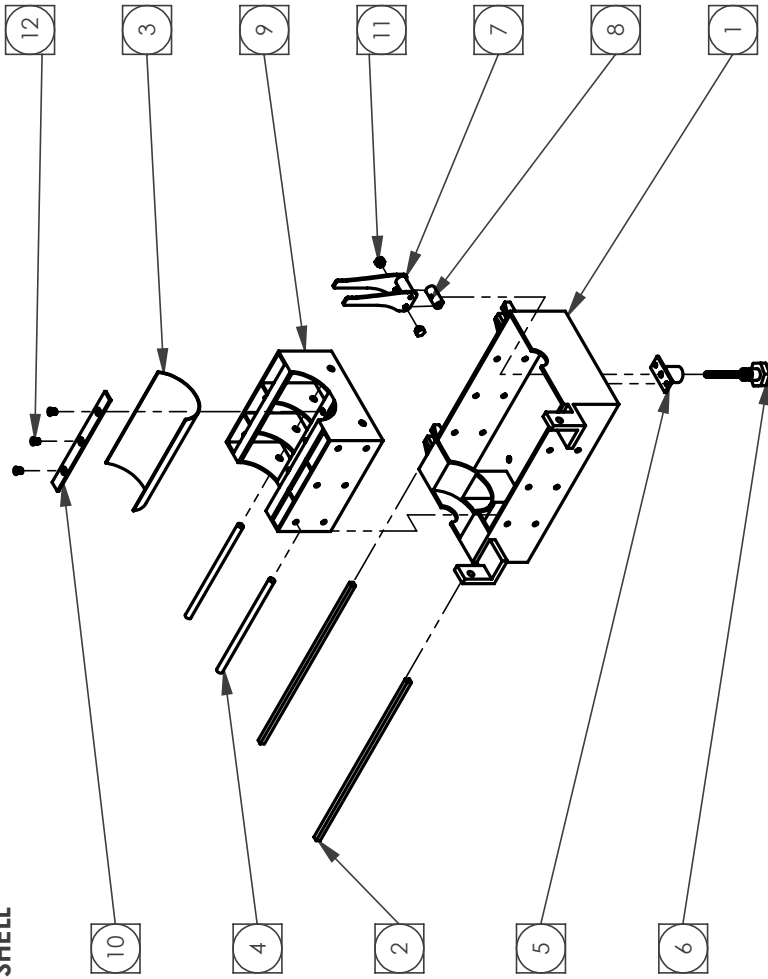
### BILL OF MATERIALS: UPPER SHELL


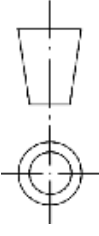
| ITEM NO. | Description                     | PartNo           | Material                   | QTY. |
|----------|---------------------------------|------------------|----------------------------|------|
| 1        | BODY TOP COVER                  | RM2024A-S2.A-021 | Plain Carbon Steel         | 1    |
| 2        | SQUARE BAR (8X8)MM              | RM2024A-S2.A-029 | Plain Carbon Steel         | 2    |
| 3        | RICE SHELL NET                  | RM2024A-S2.A-031 | Plain Carbon Steel         | 1    |
| 4        | POLISHER CASING FRAME PART - 1  | RM2024A-S2.A-032 | Plain Carbon Steel         | 2    |
| 5        | PRESSURE KEY HOLDER             | RM2024A-S2.A-023 | Plain Carbon Steel         | 1    |
| 6        | BODY TOP COVER - PRESSURE KEY   | RM2024A-S2.A-022 | Plain Carbon Steel         | 1    |
| 7        | PRESSURE CLAMP                  | RM2024A-S2.A-024 | Plain Carbon Steel         | 1    |
| 8        | PRESSURE CLAMP PIN              | RM2024A-S2.A-025 | Plain Carbon Steel         | 1    |
| 9        | NET FRAME - TOP                 | RM2024A-S2.A-030 | Plain Carbon Steel         | 1    |
| 10       | SEIVE SUPPORT FLAT BAR          | RM2024A-S2.A-026 | Plain Carbon Steel         | 1    |
| 11       | BOLT M8 LONG 15MM (QUANTITY 12) | RM2024A-S2.A-034 | Stainless Steel (ferritic) | 12   |
| 12       | LN KEY DIA. 8 BOLT              | RM2024A-S2.A-033 | Plain Carbon Steel         | 3    |



|   |  |  |   |
|---|--|--|---|
|   | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING                      |
|   |  |  | FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)<br>DRG. NAME: UPPER SHELL - SUB-ASSEMBLY<br>DWG NO: RM2024A-S2.A-A |   |
| DETAILS NAME<br>DRAWN ENGR. SHAFER JAHAN KHAN<br>CHK'D DR. MD. MOSHARRAF HOSSAIN<br>APP'VD DR. AKM SAIBUL ISLAM                                   | SIGNATURE<br>S J K<br>M M H<br>A S I                                       | DATE<br>10-FEB-2024<br>30-MAR-2024<br>16-APR-2024  |   |
|   |  | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING<br>WEIGHT: 11398.25 g<br>SCALE: 1:5                  | SHEET 5<br>REVISION: A                    |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |  |   |

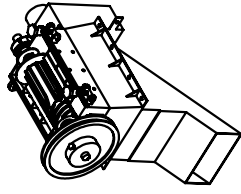
**EXPLODED VIEW: UPPER SHELL**



|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 10-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| APP'D   |  | DR. AKM SAIBUL ISLAM   | A. S.I    | 16-APR-2024  | DRG. NAME: UPPER SHELL - EXPLODED VIEW        |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S2.A-B   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |  |           | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING                |   |                      |  |
|   |  |  |           | WEIGHT: 11398.25 g   |   | A4                   |  |
|   |  |  |           | SCALE: 1:20  |   | REVISION: A          |  |
|   |  |  |           | SHEET 6  |   |                      |  |

## BILL OF MATERIALS: BOTTOM SHELL

| ITEM NO. | Description                               | PartNo           | MATERIAL                   | QTY. |
|----------|---|------------------|----------------------------|------|
| 1        | BODY BOTTOM CASING                        | RM2024A-S2.B-035 | Plain Carbon Steel         | 1    |
| 2        | NET FRAME                                 | RM2024A-S2.A-036 | Plain Carbon Steel         | 1    |
| 3        | CASING FRAME PART - 1                     | RM2024A-S2.B-039 | Plain Carbon Steel         | 2    |
| 4        | SHELL NET                                 | RM2024A-S2.B-037 | Plain Carbon Steel         | 1    |
| 5        | ENGBURG HULLER SHAFT                      | RM2024A-S2.B-043 | ASTM A36 Steel             | 1    |
| 6        | HULLER SHELL                              | RM2024A-S2.B-044 | Plain Carbon Steel         | 1    |
| 7        | UCP - 205                                 | RM2024A-S2.B-049 | Plain Carbon Steel         | 2    |
| 8        | BODY TOP COVER SUPPORT SQUARE BAR (8X8)MM | RM2024A-S2.B-040 | Plain Carbon Steel         | 2    |
| 9        | POLISHING CHAMBER                         | RM2024A-S2.B-053 | Plain Carbon Steel         | 1    |
| 10       | THREADED LOCK                             | RM2024A-S2.B-045 | ASTM A36 Steel             | 1    |
| 11       | HUSK OUT LINE                             | RM2024A-S2.B-050 | Plain Carbon Steel         | 1    |
| 12       | SEIVE SUPPORT FLAT BAR                    | RM2024A-S2.B-038 | Plain Carbon Steel         | 1    |
| 13       | LONG WASHER                               | RM2024A-S2.B-046 | Plain Carbon Steel         | 1    |
| 14       | POLISHER SHAFT - SPRING                   | RM2024A-S2.B-047 | Plain Carbon Steel         | 1    |
| 15       | WASHER                                    | RM2024A-S2.B-048 | Plain Carbon Steel         | 1    |
| 16       | CASING LOCK PART - 1                      | RM2024A-S2.B-041 | Plain Carbon Steel         | 2    |
| 17       | CASING LOCK PART - FEMALE                 | RM2024A-S2.B-042 | Plain Carbon Steel         | 2    |
| 18       | HULLER PULLEY                             | RM2024A-S2.B-051 | Gray Cast Iron             | 1    |
| 19       | HULLER SHAFT SLOT KEY                     | RM2024A-S2.B-052 | Plain Carbon Steel         | 1    |
| 20       | BOLT M10                                  | N/A              | Stainless Steel (ferritic) | 1    |
| 21       | BOLT M8 LONG 15MM (QUANTITY 12)           | N/A              | Stainless Steel (ferritic) | 12   |
| 22       | M8 BOLT 60mm LONG - NO THREAD             | N/A              | Stainless Steel (ferritic) | 2    |
| 23       | M12 BOLT                                  | N/A              | Stainless Steel (ferritic) | 4    |
| 24       | LN KEY DIA. 8 BOLT                        | N/A              | Stainless Steel (ferritic) | 3    |



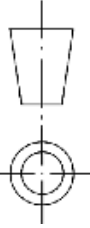
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**SFMRA PROJECT, FMPHT DIVISION**

DO NOT SCALE DRAWING  
 FINISH: NONE  
 FIRST ISSUED: 06-FEB-2024

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: BOTTOM SHELL - SUB-ASSEMBLY

DWG NO: RM2024A-S2.B-A



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

MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING

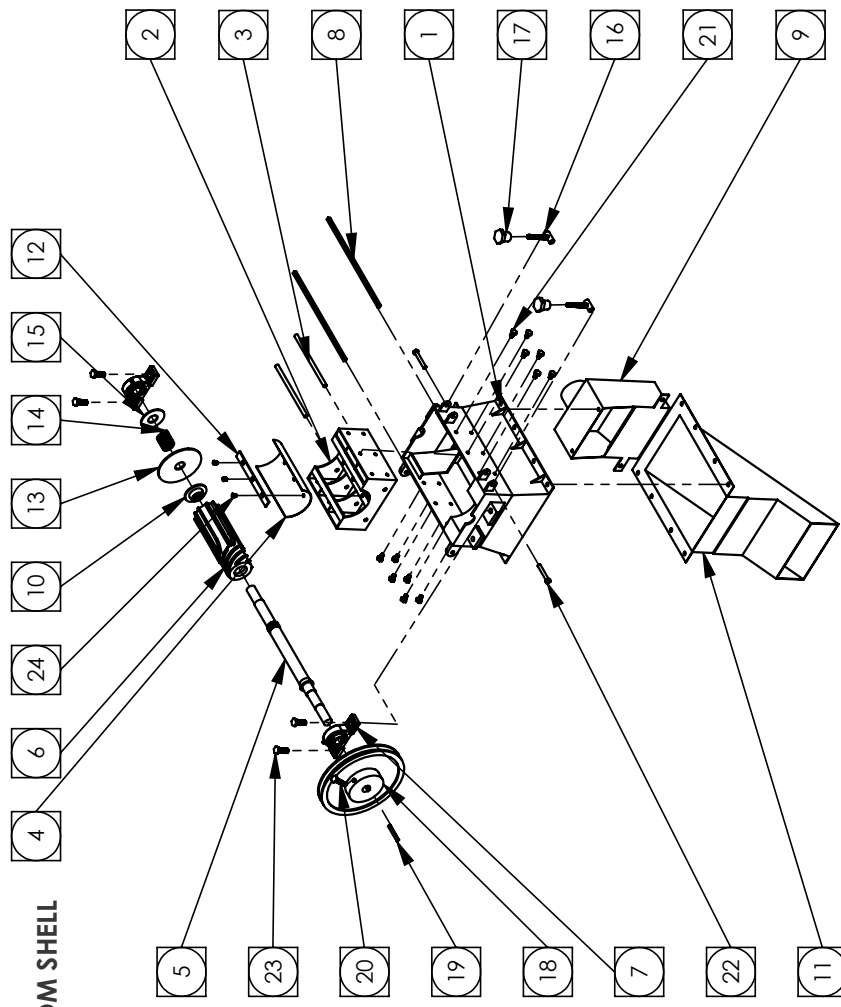
WEIGHT: 36441.79 g


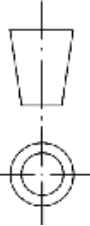
SCALE: 1:20

SHEET 7

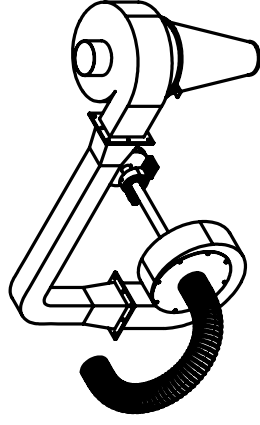
REVISION: A

**EXPLODED VIEW: BOTTOM SHELL**


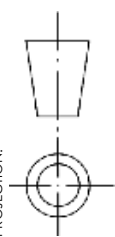


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|---|---------------------------|--|-------------|--|--|---|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING<br>FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |  |
| DETAILS   | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |  |   |  |
| DRAWN   | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 10-FEB-2024 | DRG. NAME: BOTTOM SHELL - EXPLODED VIEW                                    |  |   |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | DWG NO: RM2024A-S2.B-B   |  |   |  |
| APP'VD  | DR. AKM SAIBUL ISLAM      | A.S.I  | 16-APR-2024 | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING                |  |   |  |
| THIRD ANGLE PROJECTION:   |                           |  |             | WEIGHT: 36441.79 g<br>SCALE: 1:20  |  |   |  |
| NOTE: DEBURR AND BREAK<br>SHARP EDGES ALL BENDS MIN.<br>RADIUS UNLESS SPECIFIED   |                           |  |             | SHEET 8<br>REVISION: A   |  |   |  |

## BILL OF MATERIALS: HUSK BLOWER TO CYCLONE

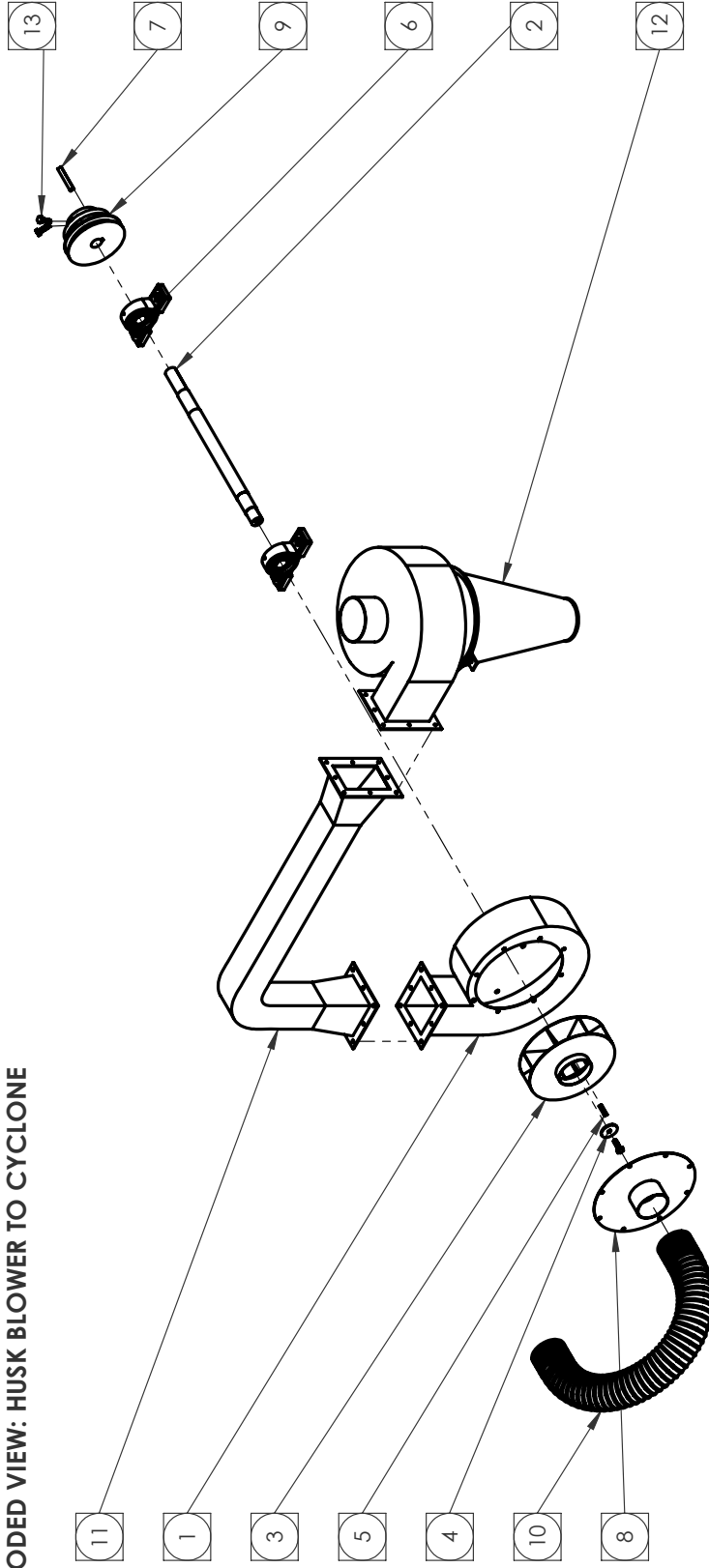



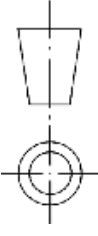
| ITEM NO. | Description                                   | PartNo         | Material                   | QTY. |
|----------|---|----------------|----------------------------|------|
| 1        | BLOWER  | RM2024A-S3-058 | Plain Carbon Steel         | 1    |
| 2        | BLOWER SHAFT                                  | RM2024A-S3-057 | Plain Carbon Steel         | 1    |
| 3        | BLOWER FAN                                    | RM2024A-S3-056 | Plain Carbon Steel         | 1    |
| 4        | BLOWER WASHER                                 | RM2024A-S3-055 | Plain Carbon Steel         | 1    |
| 5        | KEY   | RM2024A-S3-055 | Plain Carbon Steel         | 1    |
| 6        | BLOWER BEARING HOUSING - UCP206               | RM2024A-S3-059 | Cast Alloy Steel           | 2    |
| 7        | KEY   | RM2024A-S3-061 | Plain Carbon Steel         | 1    |
| 8        | BLOWER FLANGE                                 | RM2024A-S3-054 | Plain Carbon Steel         | 1    |
| 9        | BLOWER PULLEY                                 | RM2024A-S3-060 | Gray Cast Iron             | 1    |
| 10       | HOSE PIPE                                     | RM2024A-S3-064 | ABS PC                     | 1    |
| 11       | HUSK LINE BLOWER TO CYCLONE                   | RM2024A-S3-062 | Plain Carbon Steel         | 1    |
| 12       | CYCLONE                                       | RM2024A-S3-063 | Plain Carbon Steel         | 1    |
| 13       | BLOWER PULLRY LOVK BOLT - M8 BOLT (30mm LONG) | N/A            | Stainless Steel (ferritic) | 3    |

|   |   |   |                      |
|---|---|---|----------------------|
|   | <b>BANGLADESH RICE RESEARCH INSTITUTE</b> |   | DO NOT SCALE DRAWING |
|   | SFMRA PROJECT, FMPHT DIVISION             |   | FINISH: NONE         |
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |   | FIRST ISSUED: 06-FEB-2024   |                      |
| DETAILS   | NAME                                      | SIGNATURE   | DATE                 |
| DRAWN   | ENGR. SHAFER JAHAN KHAN                   | S. J.K  | 10-FEB-2024          |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN                 | M. M. H   | 30-MAR-2024          |
| APP'D   | DR. AKM SAIFUL ISLAM                      | A. S. I   | 16-APR-2024          |
| THIRD ANGLE PROJECTION:   |   |   |                      |
|   |   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)<br>DRG. NAME: HUSK BLOWER TO CYCLONE - SUB-ASSEMBLY<br>DWG NO: RM2024A-S3-A |                      |
| MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING<br>WEIGHT: 30316.32 g<br>SCALE: 1:20  |   |   |                      |
| SHEET 9   |   |   | REVISION: A          |

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

**EXPLODED VIEW: HUSK BLOWER TO CYCLONE**




|  |  |  |   |  |                      |
|--|--|--|---|--|----------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE                              |  |  | BANGLADESH RICE RESEARCH INSTITUTE<br>SFMRA PROJECT, FMPHT DIVISION       |  | DO NOT SCALE DRAWING |
|  |  |  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                             |  | FINISH: NONE         |
| DETAILS NAME SIGNATURE DATE<br>DRAWN ENGR. SHAHEER JAHAN KHAN S.J.K 10-FEB-2024<br>CHK'D DR. MD. MOSHARRAF HOSSAIN M.M.H 30-MAR-2024<br>APP'D DR. AKM SAIBUL ISLAM A.S.I 16-APR-2024 |  |  | FIRST ISSUED: 06-FEB-2024   |  |                      |
| THIRD ANGLE PROJECTION:    |  |  | DRG. NAME: HUSK BLOWER TO CYCLONE - EXPLODED VIEW<br>DWG NO: RM2024A-S3-B |  |                      |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  |  | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING               |  |                      |
| WEIGHT: 30316.32 g<br>SCALE: 1:50  |  |  | SHEET 10  |  | REVISION: A          |

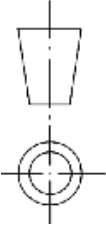
## BILL OF MATERIALS: HOPPER

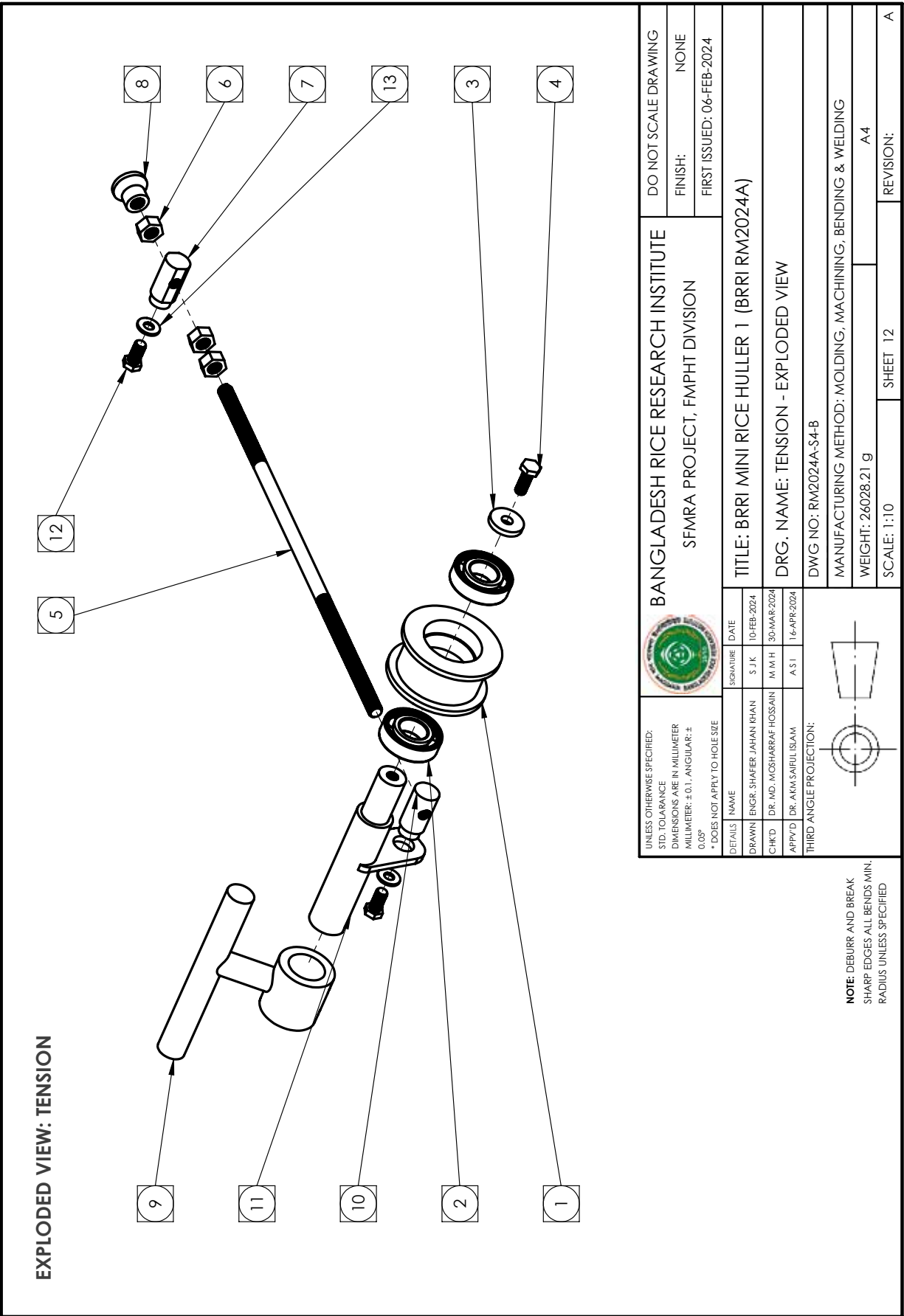
| ITEM NO. | Description                       | PartNo         | Material                   | QTY. |
|----------|-----------------------------------|----------------|----------------------------|------|
| 1        | TENSION PULLEY                    | RM2024A-S4-068 | Gray Cast Iron             | 1    |
| 2        | 6205 RS BEARING - USED IN TENSION | RM2024A-S4-067 | Material <not specified>   | 2    |
| 3        | TENSION SHAFT - WASHER            | RM2024A-S4-069 | Plain Carbon Steel         | 1    |
| 4        | TENSION BOLT M8                   | N/A            | Stainless Steel (ferritic) | 1    |
| 5        | THREADED ROD                      | RM2024A-S4-073 | Plain Carbon Steel         | 1    |
| 6        | NUT                               | N/A            | N/A                        | 3    |
| 7        | TENSION SCREW HOLDER - 2          | RM2024A-S4-071 | Plain Carbon Steel         | 1    |
| 8        | TENSION WHEEL                     | RM2024A-S4-074 | Plain Carbon Steel         | 1    |
| 9        | TENSION SHAFT - 1                 | RM2024A-S4-065 | Plain Carbon Steel         | 1    |
| 10       | TENSION SCREW HOLDER - 1          | RM2024A-S4-070 | Plain Carbon Steel         | 1    |
| 11       | TENSION SHAFT - PULLEY HOLDER     | RM2024A-S4-066 | Plain Carbon Steel         | 1    |
| 12       | TENSION SHAFT - PULLEY TIGHT BOLT | N/A            | Plain Carbon Steel         | 2    |
| 13       | WASHER                            | RM2024A-S4-072 | Plain Carbon Steel         | 2    |



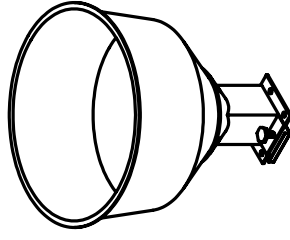
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|---|--|--|---|---|---|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  | BANGLADESH RICE RESEARCH INSTITUTE<br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING                      |
|   | DETAILS<br>NAME<br>DRAWN<br>CHKD<br>APPVD  | NAME<br>ENGR. SHAFER JAHAN KHAN<br>DR. MD. MOSHARRAF HOSSAIN<br>DR. AKM SAIFUL ISLAM | SIGNATURE<br>S J K<br>M M H<br>A S I                                | DATE<br>10-FEB-2024<br>30-MAR-2024<br>16-APR-2024 | FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |
| TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)   |  |  |   |   |   |
| DRG. NAME: TENSION - SUB-ASSEMBLY   |  |  |   |   |   |
| DWG NO: RM2024A-S4-A  |  |  |   |   |   |
| MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING   |  |  |   |   |   |
| WEIGHT: 3736.82 g   |  |  |   |   | A4  |
| SCALE: 1:10   |  |  |   |   | SHEET 11                                  |
| REVISION:   |  |  |   |   | A   |

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


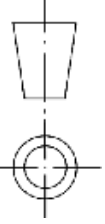




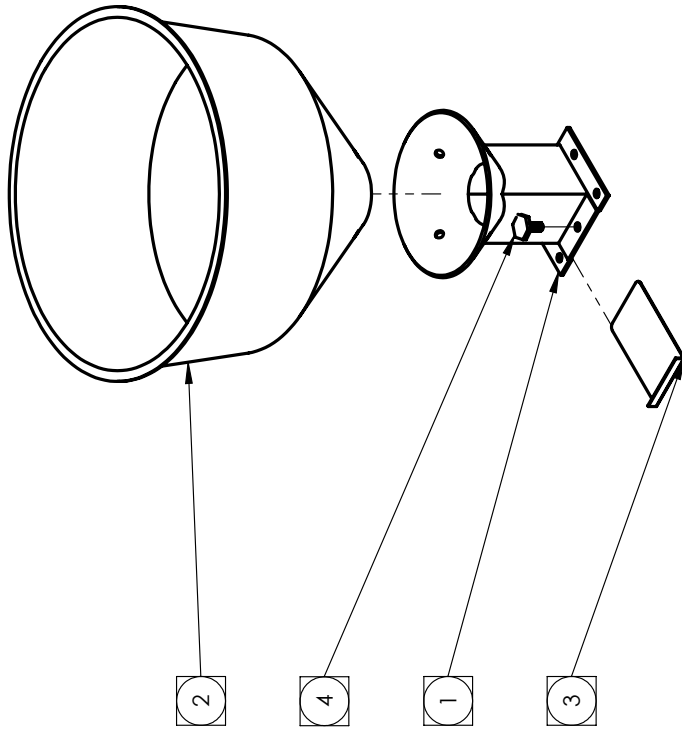
## BILL OF MATERIALS: HOPPER


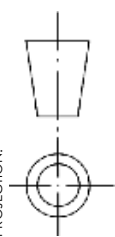


| ITEM NO. | Description                      | PartNo         | Material                   | QTY. |
|----------|----------------------------------|----------------|----------------------------|------|
| 1        | HOPPER-BASE                      | RM2024A-S5-075 | Plain Carbon Steel         | 1    |
| 2        | HOPPER                           | RM2024A-S5-076 | Plain Carbon Steel         | 1    |
| 3        | HOPPER - PADDY SUPPEY CONTROLLER | RM2024A-S5-077 | Plain Carbon Steel         | 1    |
| 4        | HOPPER THREAD KEY - M8           | RM2024A-S5-078 | Stainless Steel (ferritic) | 1    |

|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)               |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 10-FEB-2024  | DRG. NAME: HOPPER - SUB-ASSEMBLY                            |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M. H   | 30-MAR-2024  | DWG NO: RM2024A-S5-A  |                      |  |
| APP'D   |  | DR. AKM SAIBUL ISLAM   | A. S. I   | 16-APR-2024  | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           |  |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |  |           | SCALE: 1:10  |   | REVISION: A          |  |
|   |  |  |           | SHEET 13   |   | A4                   |  |
|   |  |  |           | WEIGHT: 4331.72 g  |   |                      |  |

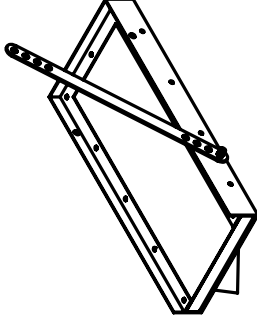
**EXPLODED VIEW: HOPPER**


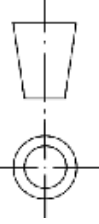


|   |  |           |  |   |   |
|---|--|-----------|--|---|---|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |           | BANGLADESH RICE RESEARCH INSTITUTE   |   | DO NOT SCALE DRAWING                      |
|   |  |           | SFMRA PROJECT, FMPHT DIVISION  |   | FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |
| DETAILS   | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)               |   |
| DRAWN   | ENGR. SHAHEER JAHAN KHAN   | S. J.K    | 10-FEB-2024  | DRG. NAME: HOPPER - EXPLODED VIEW                           |   |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S5-B  |   |
| APP'VD  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING |   |
| THIRD ANGLE PROJECTION:   |  |           |  |   |   |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |           | WEIGHT: 4331.72 g<br>SCALE: 1:10   |   |   |
|   |  |           | SHEET 14   |   | REVISION: A                               |

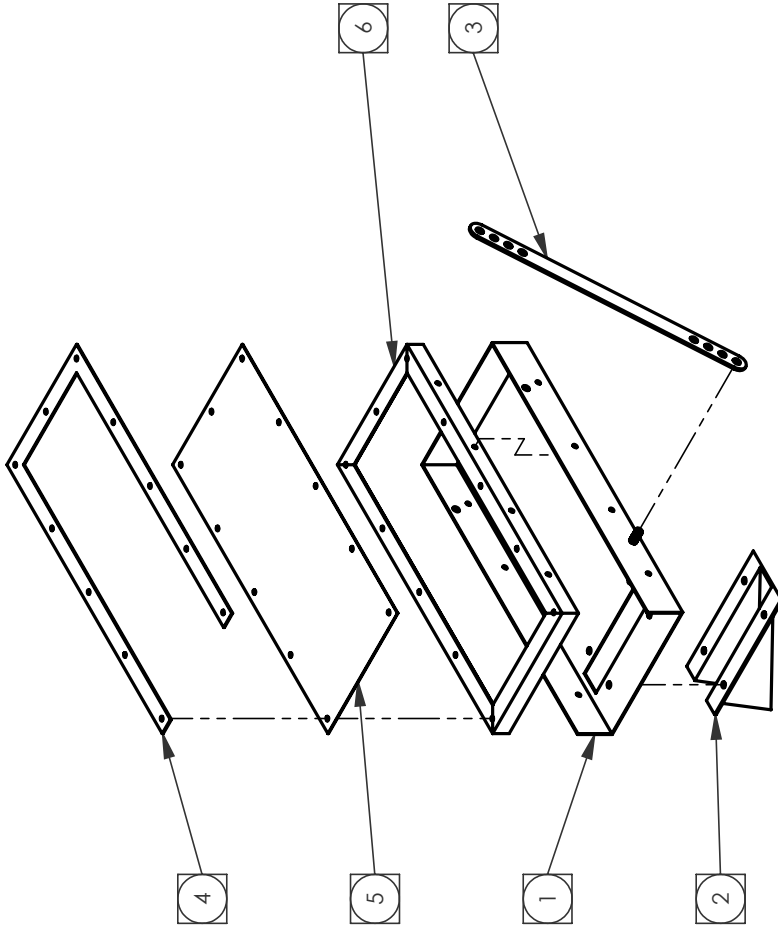
### BILL OF MATERIALS: SIZE GRADER


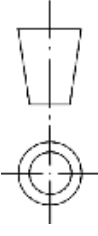
| ITEM NO. | Description                    | PartNo         | Material                   | QTY. |
|----------|--------------------------------|----------------|----------------------------|------|
| 1        | GRADER CASING                  | RM2024A-S6-079 | Plain Carbon Steel         | 1    |
| 2        | GRADER BROKEN RICE OUTPUT LINE | RM2024A-S6-080 | Plain Carbon Steel         | 1    |
| 3        | GRADER HOLDING BAR             | RM2024A-S6-084 | Plain Carbon Steel         | 1    |
| 4        | GRADER NET HOLDING FRAME       | RM2024A-S6-083 | Plain Carbon Steel         | 1    |
| 5        | GRADER NET                     | RM2024A-S6-082 | Stainless Steel (ferritic) | 1    |
| 6        | GRADER NET HOLDING ANGLE FRAME | RM2024A-S6-081 | Plain Carbon Steel         | 1    |



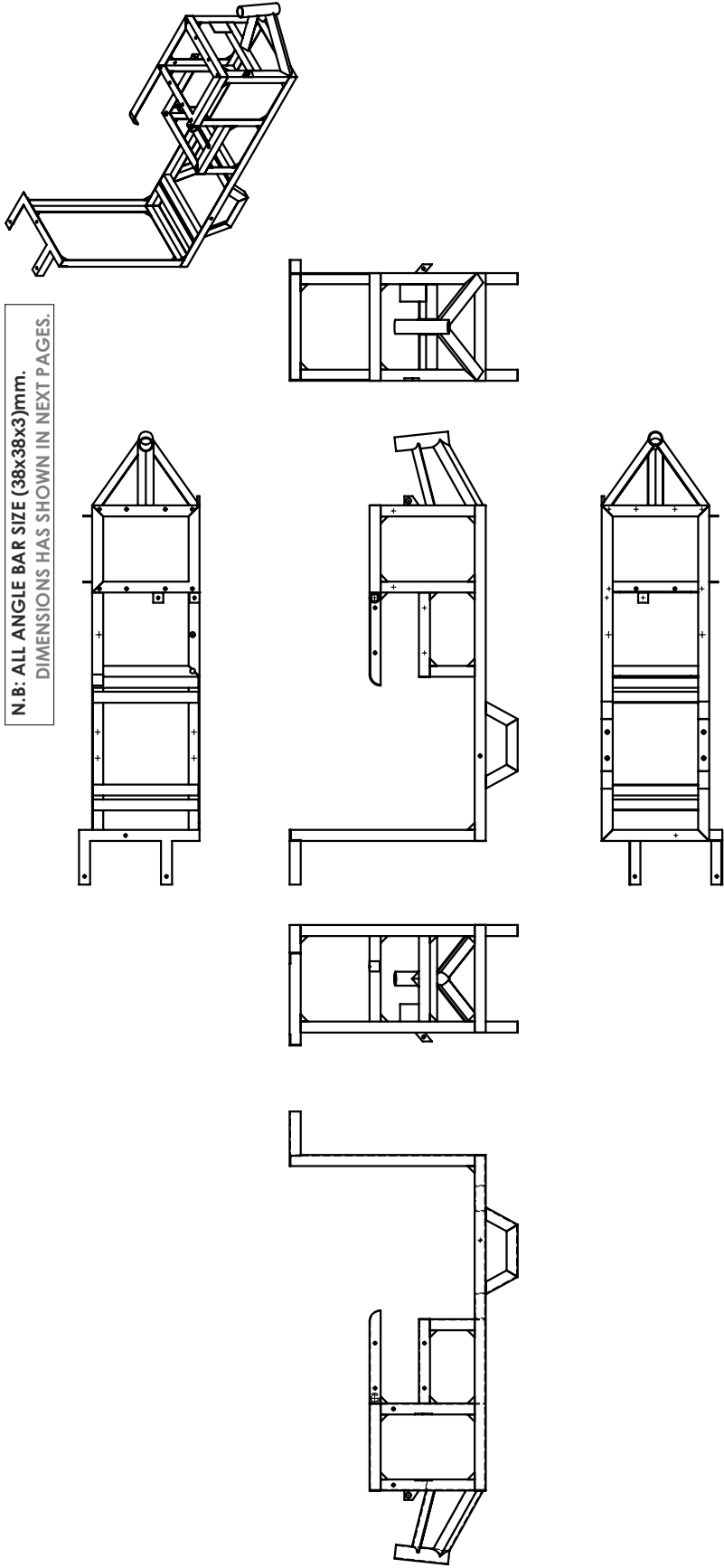
|   |                           |  |             |  |  |                      |  |
|---|---------------------------|--|-------------|--|--|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |  | DO NOT SCALE DRAWING |  |
| DETAILS   | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)  |  |                      |  |
| DRAWN   | ENGR. SHAFER JAHAN RHAN   | S. J.K   | 10-FEB-2024 | DRG. NAME: GRADER - SUB-ASSEMBLY   |  |                      |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M. H  | 30-MAR-2024 | DWG NO: RM2024A-S6-A   |  |                      |  |
| APP'VD  | DR. AKM SAIBUL ISLAM      | A. S. I  | 16-APR-2024 | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING                          |  |                      |  |
| THIRD ANGLE PROJECTION:   |                           |  |             |  |  |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |                           |  |             | WEIGHT: 4407.47 g  |  | REVISION: A          |  |
|   |                           |  |             | SCALE: 1:10  |  | SHEET 15             |  |


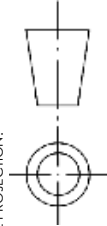
**EXPLODED VIEW: SIZE GRADER**

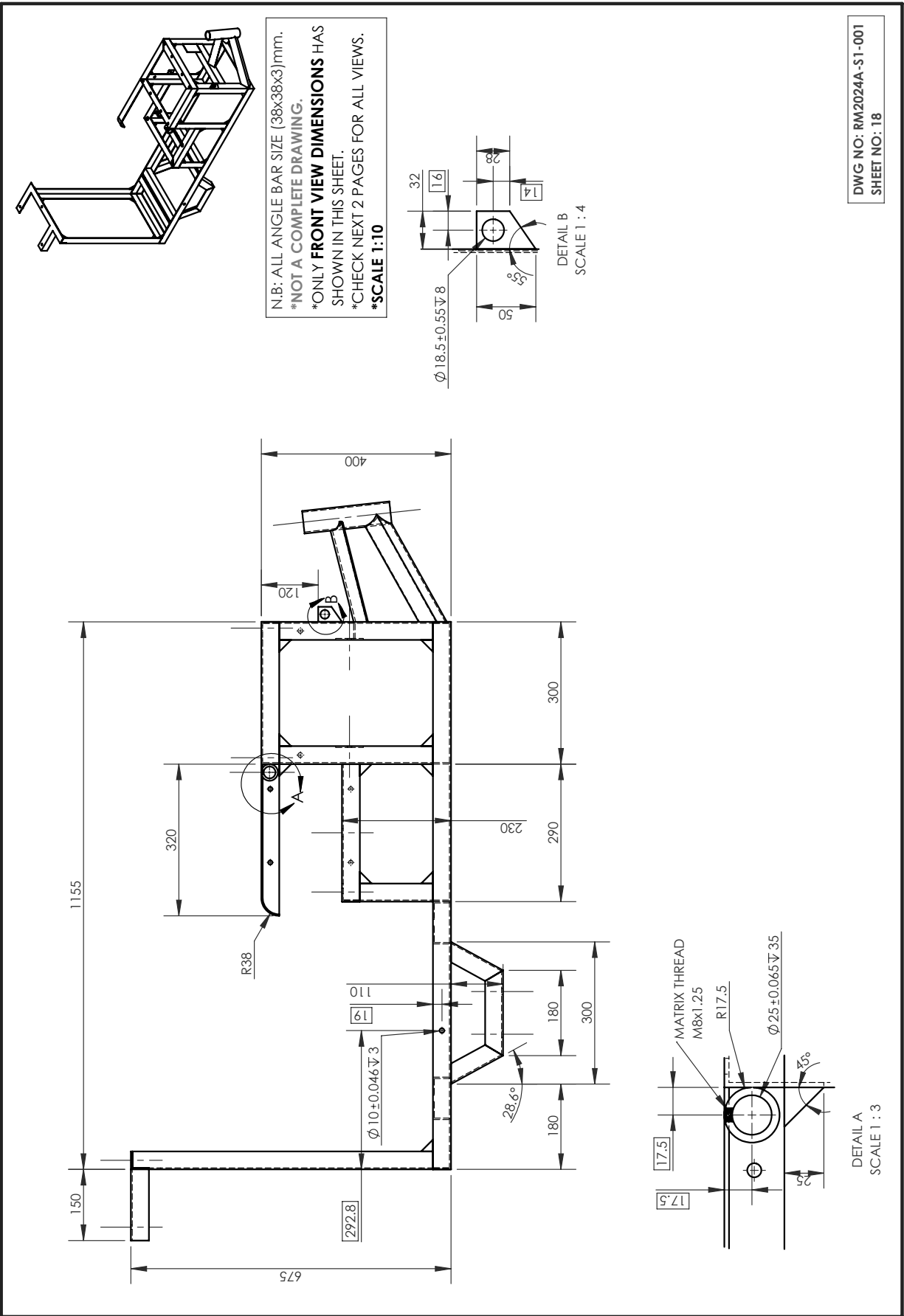


|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | FINISH: NONE                                |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 10-FEB-2024  | FIRST ISSUED: 06-FEB-2024                   |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | TITLE: BRRI COMPACT RICE MILL (BRRI RM2023) |                      |  |
| APP'D  |  | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: GRADER - EXPLODED VIEW           |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S6-B   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  |  |           | MANUFACTURING METHOD: MOLDING, MACHINING, BENDING & WELDING                |   | WEIGHT: 4407.47 g    |  |
|  |  |  |           | SCALE: 1:20  |   | REVISION: A          |  |
|  |  |  |           | SHEET 16   |   | A                    |  |

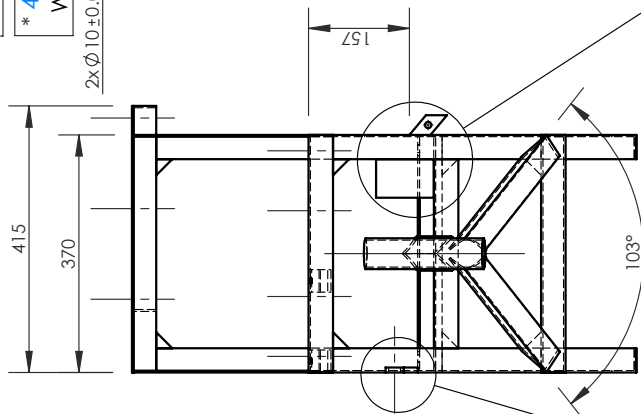
N.B: ALL ANGLE BAR SIZE (38x38x3)mm.  
DIMENSIONS HAS SHOWN IN NEXT PAGES.



|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 10-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| APP'VD  |  | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: WELDMENTS FRAME-BASE               |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S1-001   |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK<br>SHARP EDGES ALL BENDS MIN.<br>RADIUS UNLESS SPECIFIED  |  | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                                   |           | MATERIAL: Plain Carbon Steel<br>WEIGHT: 22291.38 g                         |   |                      |  |
| SCALE: 1:20   |  | SHEET 17   |           | REVISION:  |   | A                    |  |

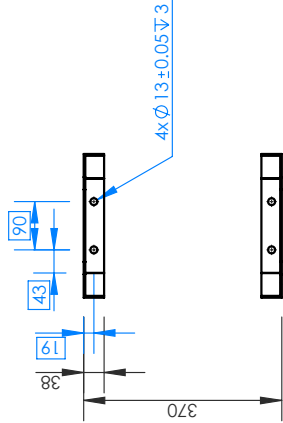
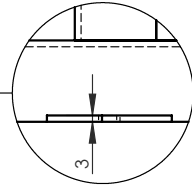
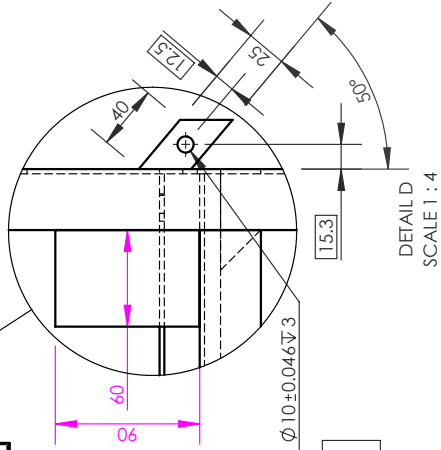
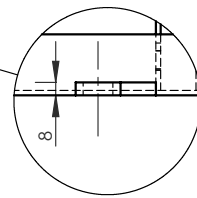
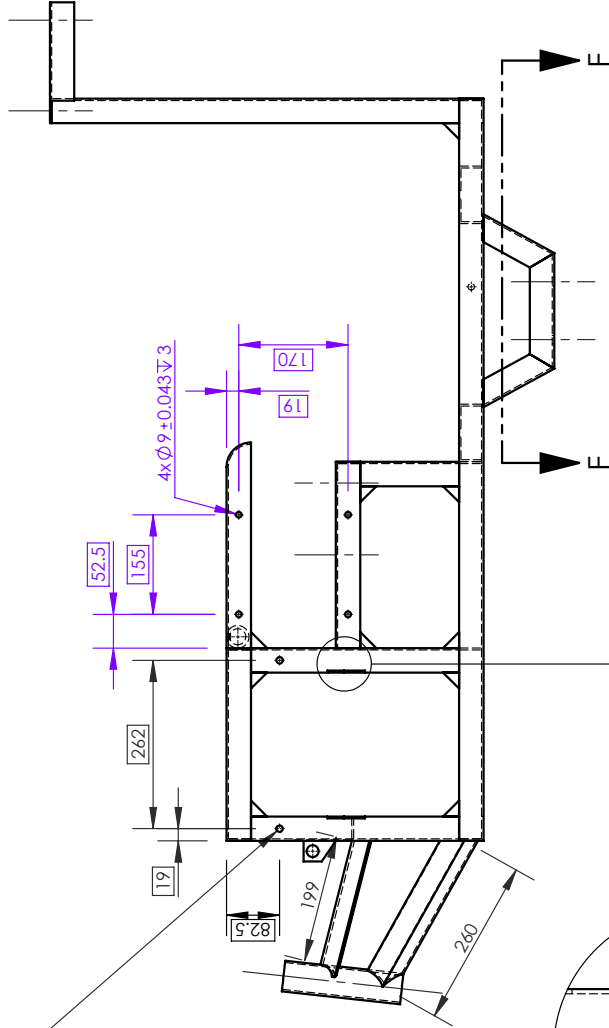


**\*NOT A COMPLETE DRAWING.  
\*ONLY RIGHT & REAR VIEW DIMENSIONS  
HAS SHOWN IN THIS SHEET.  
\*SCALE 1:10**

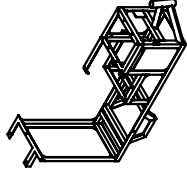


**\*4x Ø9 ±0.043±3 HOLES FOR BLOWER. THE BLOWER WILL FIT HERE. NUT-M8 (x4) WILL BE WELDED WITH THE 4 HOLES. SO THAT, M8 BOLTS CAN IN AND OUT TO PLACE/REMOVE BLOWER BODY.**

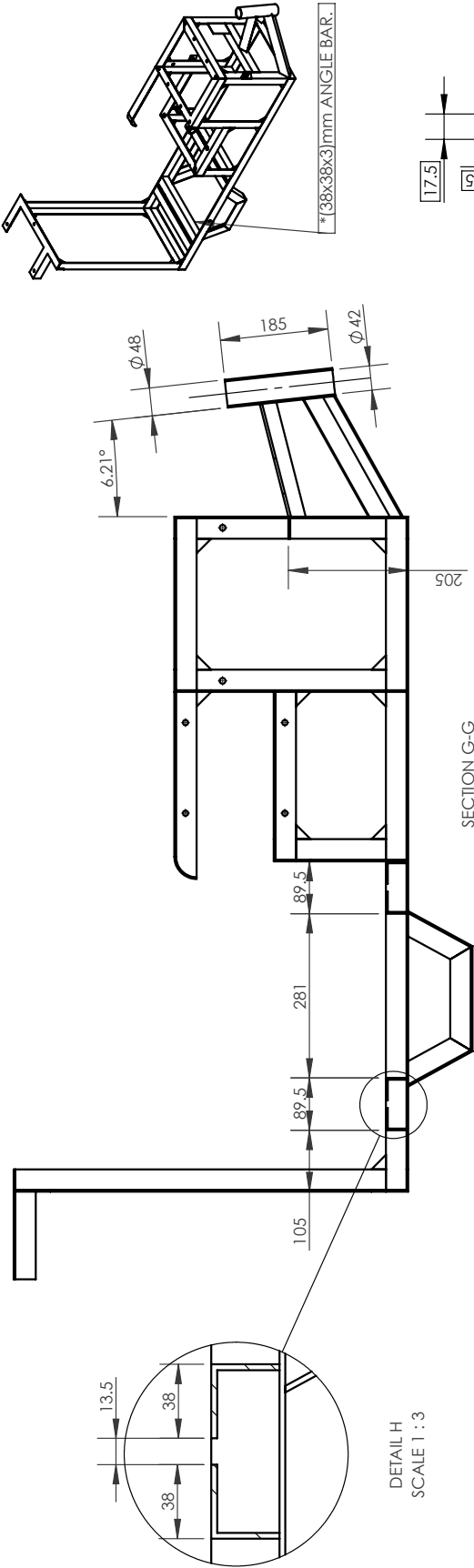
**\*4x Ø13 ±0.05±3 HOLES FOR THE WHEEL AXLE. THE WHEEL AXLE WILL FIT HERE.**



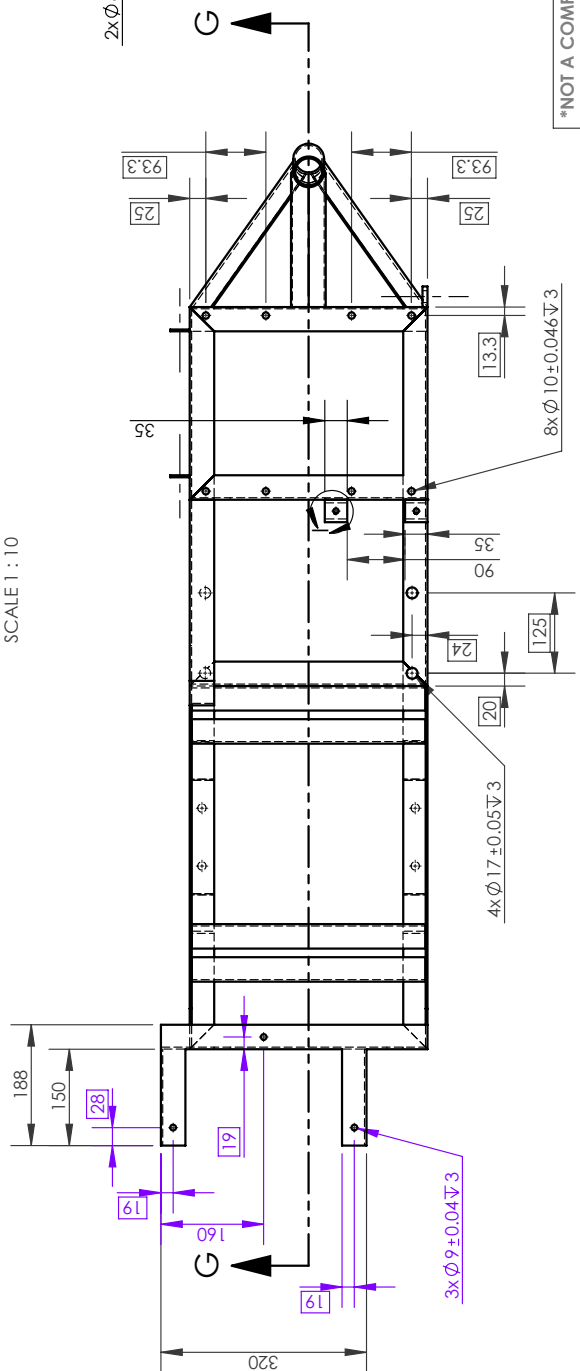
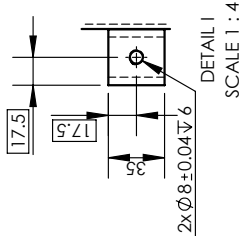
**\*190x60x1.5mm AREA FOR THE ELECTRIC SWITCHBOARD.  
DRAWING NUMBER: RM2024A-S1-001  
SHEET NO: 19**



\*NOT A COMPLETE DRAWING.  
 \*ONLY TOP SIDE & SECTION FROM TOP VIEW  
 DIMENSIONS HAS SHOWN IN THIS SHEET.  
 \*SCALE 1:10

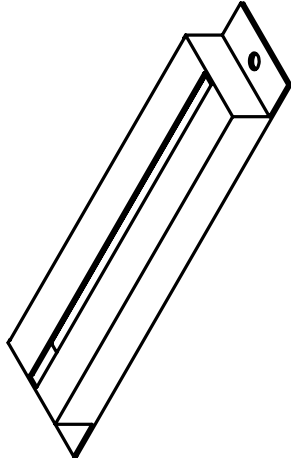


SECTION G-G  
 SCALE 1 : 10

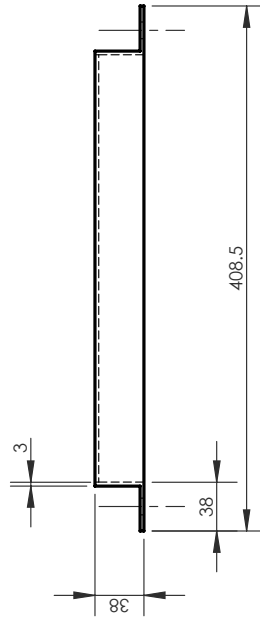
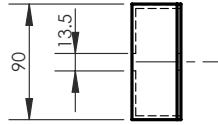
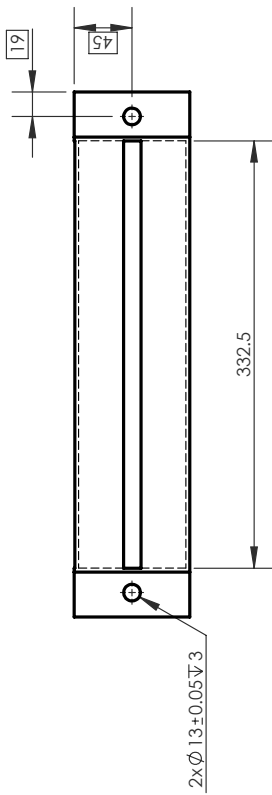


\*  $3 \times \phi 9 \pm 0.04 \nabla 3$  HOLES FOR CYCLONE.

DRAWING NUMBER: RM2024A-S1-001  
 SHEET NO: 20



N.B: ANGLE BAR SIZE (38x38x3)mm.  
\*MODEL IS SYMMETRY.

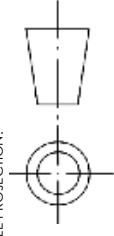


**BANGLADESH RICE RESEARCH INSTITUTE**  
SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING  
FINISH: NONE  
FIRST ISSUED: 06-FEB-2024

| DETAILS | NAME                      | SIGNATURE | DATE        |
|---------|---------------------------|-----------|-------------|
| DRAWN   | ENGR. SHAFER JAHAN KHAN   | S J K     | 10-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M M H     | 30-MAR-2024 |
| APP'D   | DR. AKM SAIFUL ISLAM      | A S I     | 16-APR-2024 |

**TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)**  
DRG. NAME: BASE- MOTOR CASING  
DWG NO: RM2024A-S1-002


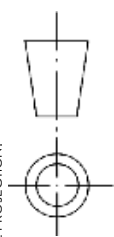


**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

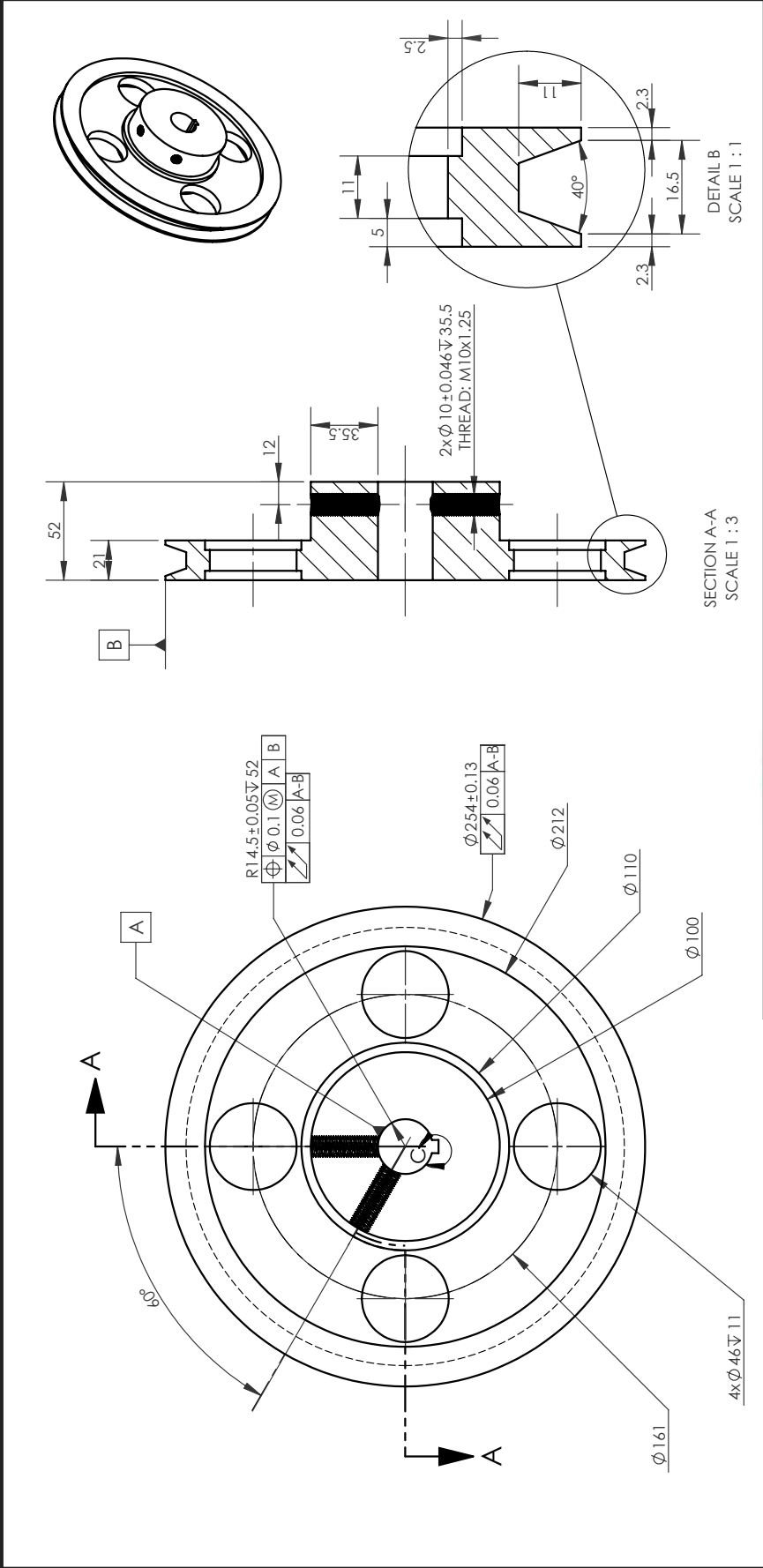
MANUFACTURING METHOD: MACHINING, BENDING & WELDING  
MATERIAL: Plain Carbon Steel  
SCALE: 1:5  
SHEET 21  
REVISION: A  
WEIGHT: 1437.22 g  
A4


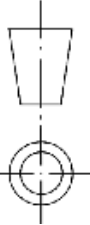


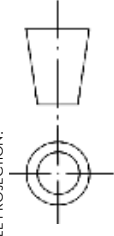
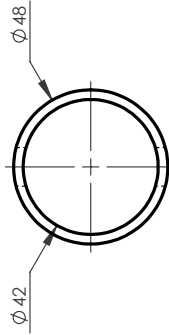
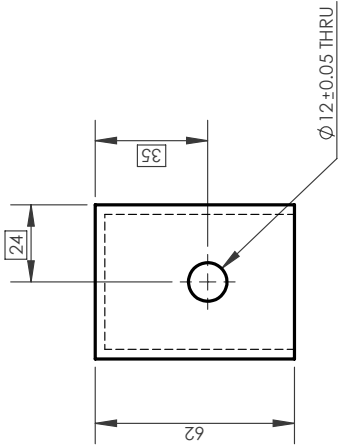
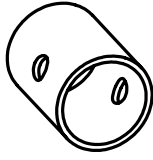
MOTOR HP: 5HP  
 SPEED: 1450 RPM  
 SINGLE PHASE MOTOR


|  |  |  |           |  |   |                      |             |
|--|--|--|-----------|--|---|----------------------|-------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |             |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |             |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 10-FEB-2024  | DRG. NAME: MOTOR 5HP                          |                      |             |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S1-003                        |                      |             |
| APP'VD   |  | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | FINDING PROCESS: SHOP                         |                      |             |
| THIRD ANGLE PROJECTION:  |  |  |           | WEIGHT: 68,000 g   |   |                      | REVISION: A |
|  |  |  |           | SCALE: 1:10  |   |                      |             |
|  |  |  |           | SHEET 22   |   |                      |             |

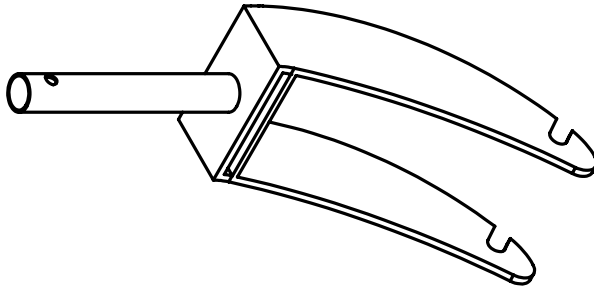
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED




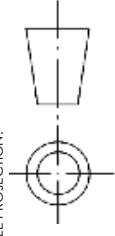
|   |  |   |  |                                      |
|---|--|---|--|--------------------------------------|
|   |  | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION  |  | DO NOT SCALE DRAWING                 |
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: $\pm 0.1$ , ANGULAR: $\pm 0.05^\circ$<br>* DOES NOT APPLY TO HOLE SIZE          |  | TITLE: <b>BRRI MINI RICE HULLER 1 (BRRI RM2024A)</b><br>DRG. NAME: <b>MOTOR PULLEY</b><br>DWG NO: <b>RM2024A-S1-004</b><br>MANUFACTURING METHOD: <b>MACHINING</b><br>MATERIAL: <b>Gray Cast Iron</b><br>SCALE: <b>1:5</b> |  | FINISH: <b>NONE</b>                  |
| DETAILS NAME DATE<br>DRAWN ENGR. SHAFER JAHAN KHAN S J K 10-FEB-2024<br>CHK'D DR. MD. MOSHARRAF HOSSAIN M M H 30-MAR-2024<br>APP'D DR. AKKASARIBU ISLAM A S I 16-APR-2024 |  | THIRD ANGLE PROJECTION:   |  | FIRST ISSUED: <b>06-FEB-2024</b>     |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  | WEIGHT: <b>5970.37 g</b><br>REVISION: <b>A</b>  |  | SHEET <b>23</b><br>SCALE: <b>1:5</b> |

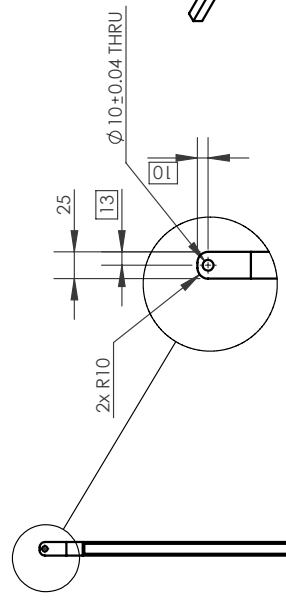
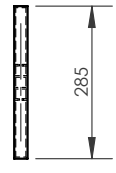
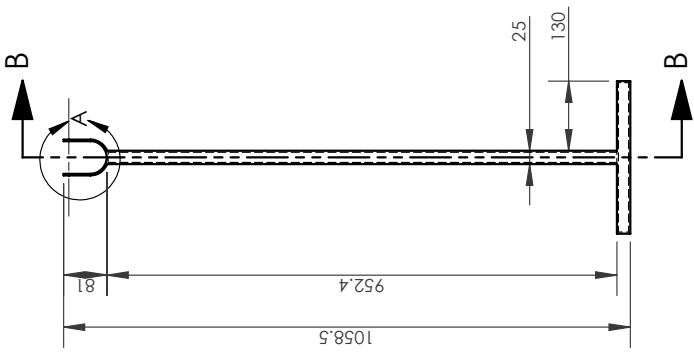


|   |                           |  |           |  |   |                      |  |
|---|---------------------------|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: $\pm 0.1$ , ANGULAR: $\pm 0.05^\circ$<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |                           | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M. H.   | M. M. H.  | 30-MAR-2024  | DRG. NAME: BASE WHEEL PART - 1                |                      |  |
| APP'D   | DR. AKM SAIFUL ISLAM      | A. S. I.   | A. S. I.  | 16-APR-2024  | DWG NO: RM2024A-S1-005                        |                      |  |
| THIRD ANGLE PROJECTION:   |                           |  |           | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                         |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |                           |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 232.18 g     |  |
|   |                           |  |           | SCALE: 1:1   |   | REVISION: A          |  |
|   |                           |  |           | SHEET 24   |   | REVISION: A          |  |



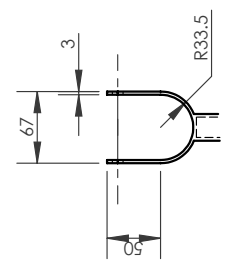
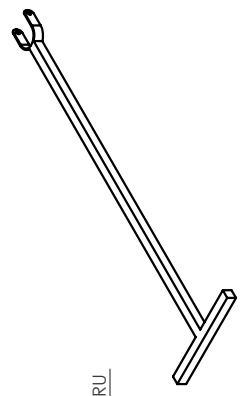
NAME: FRONT WHEEL CARRYING FRAME  
 MADE: LOCALLY MADE  
 WHEEL DIA: 400mm  
 THICKNESS: 8mm  
 UPPER PIPE DIA: 36mm  
 \*(35-40)mm DIA IS ACCEPTED.

|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J. K.  | 10-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M. H.  | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D  |  | DR. AKM SAIFUL ISLAM   | A. S. I.  | 16-APR-2024  | DRG. NAME: FRONT WHEEL CARRYING FRAME         |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S1-006   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  | FINDING METHOD: SHOP   |           | MATERIAL: Plain Carbon Steel   |   |                      |  |
|  |  | SCALE: 1:10  |           | SHEET 25   |   | REVISION: A          |  |
|  |  | WEIGHT: 4890.48 g  |           | A4   |   |                      |  |



DETAIL C  
SCALE 1 : 6

N.B: SQUARE BAR SIZE USED (25x25x3)mm



DETAIL A  
SCALE 1 : 6

SECTION B-B  
SCALE 1 : 12



**BANGLADESH RICE RESEARCH INSTITUTE**  
SFMRA PROJECT, FMPHT DIVISION

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: BASE HANDLE

DWG NO: RM2024A-S1-008

MANUFACTURING METHOD: MACHINING, BENDING & WELDING

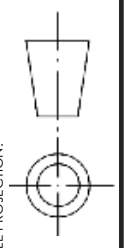
MATERIAL: Plain Carbon Steel

SCALE: 1:10 SHEET 26 WEIGHT: 2675.51 g

REVISION: A

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

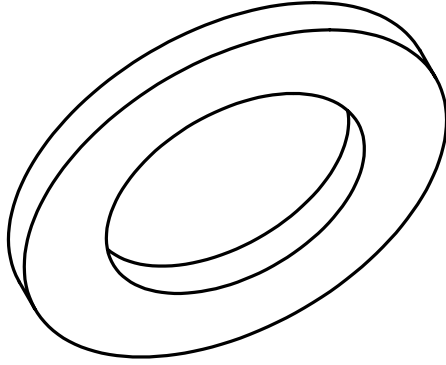
| DETAILS | NAME                      | SIGNATURE | DATE        |
|---------|---------------------------|-----------|-------------|
| DRAWN   | ENGR. SHAFER JAHAN KHAN   | S J K     | 10-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M M H     | 30-MAR-2024 |
| APP'D   | DR. AKM SAIFUL ISLAM      | A S I     | 16-APR-2024 |




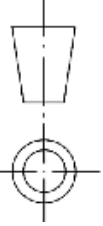
THIRD ANGLE PROJECTION:

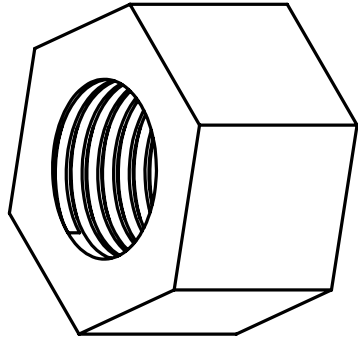
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

DO NOT SCALE DRAWING  
FINISH: NONE  
FIRST ISSUED: 06-FEB-2024


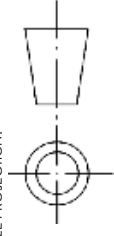


**WASHER**  
 INNER DIA: 22mm  
 OUTER DIA: 36mm  
 THICKNESS: 3mm  
 QUANTITY: 02

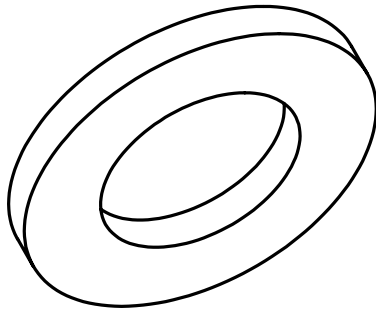
|   |  |  |           |  |   |                      |                 |  |
|---|--|--|-----------|--|---|----------------------|-----------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |                 |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |                 |  |
| DRAWN   |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 10-FEB-2024  | FINISH: NONE                                  |                      |                 |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |                 |  |
| APP'D   |  | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: WHEEL WASHER - 1                   |                      |                 |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S1-009   |   |                      | REVISION: A     |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  | FINDING METHOD: SHOP   |           | MATERIAL: Stainless Steel (ferritic)                                       |   |                      | WEIGHT: 14.92 g |  |
|   |  | SCALE: 2:1   |           | SHEET 27   |   |                      | A               |  |




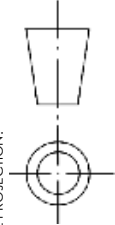
NUT: M16x2.0  
 QUANTITY: 02  
 \*\*\*FRONT WHEEL AXLE LOCK NUT.

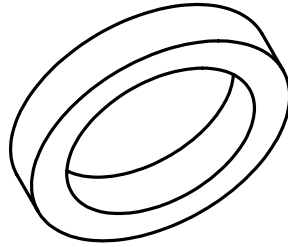
|   |   |   |  |  |                                |  |
|---|---|---|--|--|--------------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                             |   | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING           |  |
|   | DETAILS NAME<br>DRAWN ENGR. SHAFER JAHAN KHAN<br>CHK'D DR. MD. MOSHARRAF HOSSAIN<br>APP'VD DR. AKM SAIFUL ISLAM | SIGNATURE<br>S. J. K.<br>M. M. H.<br>A. S. I. | DATE<br>10-FEB-2024<br>30-MAR-2024<br>16-APR-2024                          | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)<br>DRG. NAME: WHEEL NUT M14 (FRONT X2)<br>DWG NO: RM2024A-S1-010<br>FINDING METHOD: SHOP<br>MATERIAL: Plain Carbon Steel<br>SCALE: 2:1 |                                |  |
| THIRD ANGLE PROJECTION:   |   |   | SHEET 28   |  | WEIGHT: 33.76 g<br>REVISION: A |  |

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


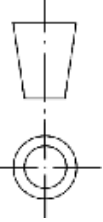


WASHER  
 INNER DIA: 17mm  
 OUTER DIA: 30mm  
 THICKNESS: 3mm  
 QUANTITY: 02

|   |  |  |           |  |   |                      |                 |
|---|--|--|-----------|--|---|----------------------|-----------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |                 |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |                 |
| DRAWN   |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 10-FEB-2024  | FINISH: NONE                                  |                      |                 |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |                 |
| APP'D   |  | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: WHEEL WASHER - 2                   |                      |                 |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S1-011   |   |                      | REVISION: A     |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  | FINDING METHOD: SHOP   |           | MATERIAL: Plain Carbon Steel   |   |                      | WEIGHT: 11.23 g |
|   |  | SCALE: 2:1   |           | SHEET 29   |   |                      | REVISION: A     |




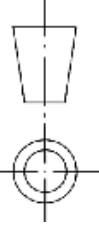
WASHER  
 INNER DIA: 16mm  
 OUTER DIA: 22mm  
 THICKNESS: 4mm  
 QUANTITY: 02

|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMEER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 10-FEB-2024  | DRG. NAME: WHEEL WASHER - 3                   |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S1-012                        |                      |  |
| APP'D  |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | FINDING METHOD: SHOP                          |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           |  |   |                      |  |
| MATERIAL: Plain Carbon Steel   |  | WEIGHT: 5.59 g   |           | SHEET 30   |   | REVISION: A          |  |
| SCALE: 2:1   |  | REVISION: A  |           | SHEET 30   |   | REVISION: A          |  |

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




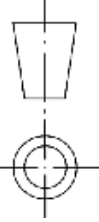
**TIRE: 4.00-8 TIRE**  
 Dimensions: Dia x Width 408mm x 118mm  
 Rim Size: 8"  
 Max Load: 265kg  
 Max Pressure: 4.1bar 59psi  
 QUANTITY: 03

|  |                           |  |             |                           |
|--|---------------------------|--|-------------|---------------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           | <br><b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |             | DO NOT SCALE DRAWING      |
| DETAILS  |                           | SIGNATURE  | DATE        | FINISH: NONE              |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 10-FEB-2024 | FIRST ISSUED: 06-FEB-2024 |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 |                           |
| APP'VD   | DR. AKM SAIFUL ISLAM      | A. S.I   | 16-APR-2024 |                           |
| THIRD ANGLE PROJECTION:  |                           | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)  |             |                           |
|    |                           | DRG. NAME: TIRE  |             |                           |
|  |                           | DWG NO: RM2024A-S1-013   |             |                           |
|  |                           | FINDING METHOD: SHOP   |             |                           |
|  |                           | MATERIAL: Nylon 101  |             | WEIGHT: 1907.57 g         |
|  |                           | SCALE: 1:10  |             | REVISION: A               |
|  |                           | SHEET 31   |             | A                         |

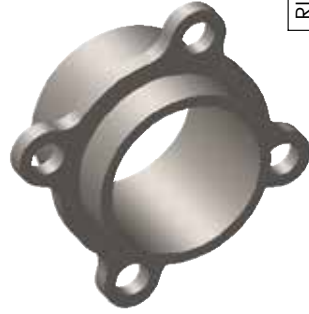
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED




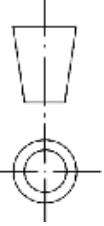
**RIM: RIM FOR 4.00-8 TIRE  
QUANTITY: 03**

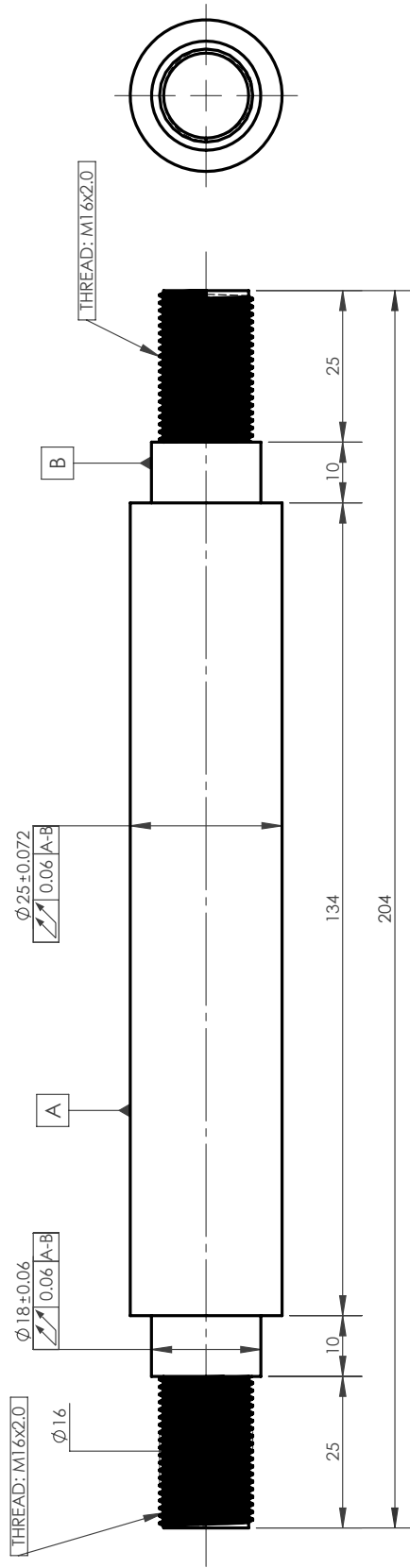
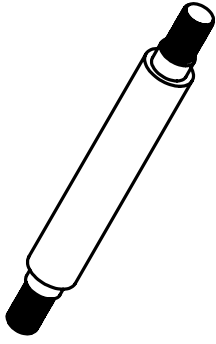
|   |                           |  |           |  |   |                      |  |
|---|---------------------------|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |   | DO NOT SCALE DRAWING |  |
| DETAILS   |                           | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M. H.   | M. M. H.  | 30-MAR-2024  | DRG. NAME: RIM                                |                      |  |
| APP'D   | DR. AKM SAIBUL ISLAM      | A. S. I.   | A. S. I.  | 16-APR-2024  | DWG NO: RM2024A-S1-014                        |                      |  |
| THIRD ANGLE PROJECTION:   |                           |  |           |  |   |                      |  |
| FINDING METHOD: SHOP  |                           |  |           | MATERIAL: ASTM A36 Steel   |   |                      |  |
| SCALE: 1:5  |                           |  |           | SHEET 32   |   | WEIGHT: 2310.39 g    |  |
| REVISION:   |                           |  |           | A  |   | A4                   |  |


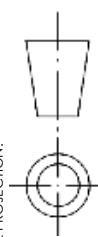
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

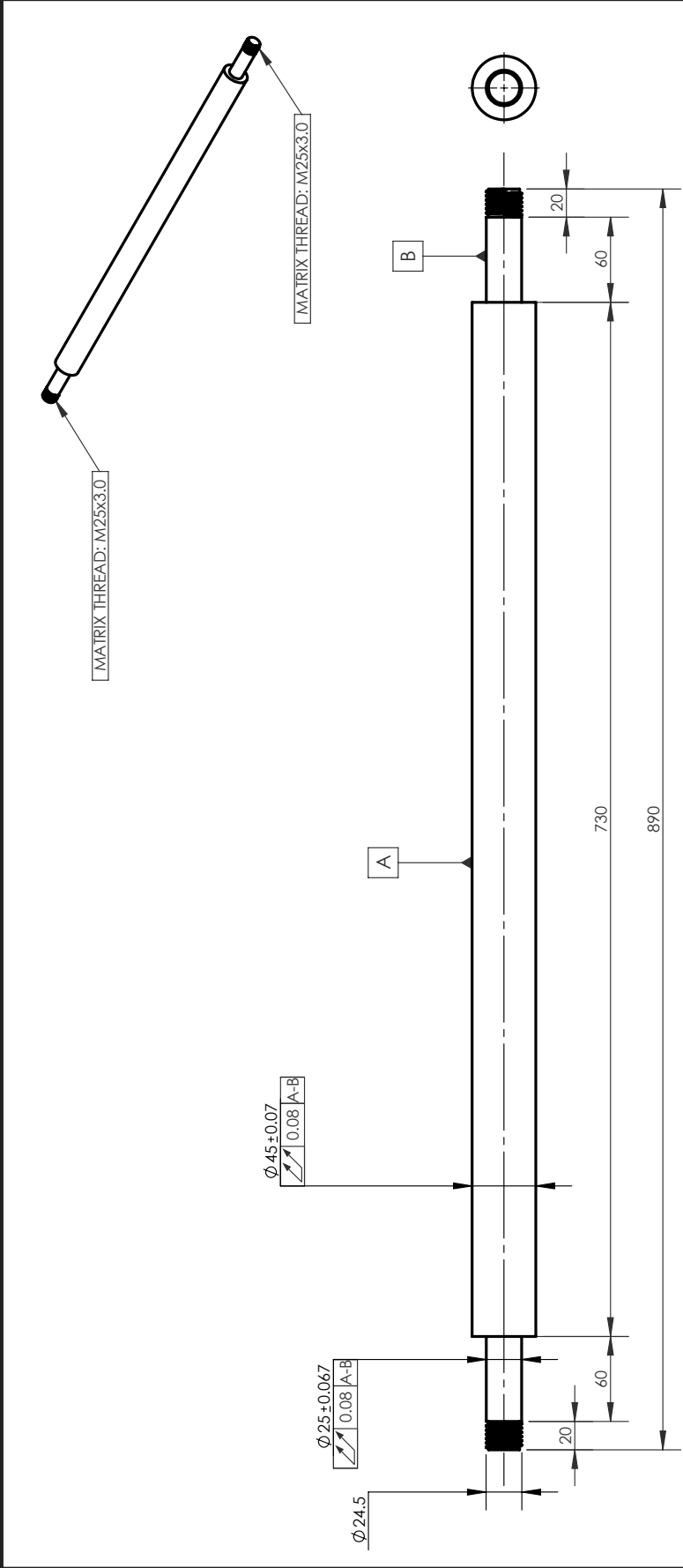



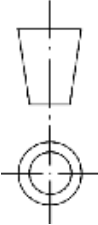
RIM HOLDING PART  
 INNER DIA: 52mm (THE BEARING 6205, WILL PLACE HERE)  
 HOLE DIA: 11mm  
 HOLE NUMBER: 04  
 QUANTITY: 03  
 (LOCALLY MADE)

|  |  |           |  |   |   |
|--|--|-----------|--|---|---|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |           | BANGLADESH RICE RESEARCH INSTITUTE   |   | DO NOT SCALE DRAWING                      |
|  |  |           | SFMRA PROJECT, FMPHT DIVISION  |   | FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |
| DETAILS  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |   |
| DRAWN  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 10-FEB-2024  | DRG. NAME: RIM HOLDING PART                   |   |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S1-015                        |   |
| APP'VD   | DR. AKKI SAIBUL ISLAM  | A.S.I     | 16-APR-2024  | FINDING METHOD: SHOP                          |   |
| THIRD ANGLE PROJECTION:  |  |           |  |   |   |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  |           | MATERIAL: ASTM A36 Steel   |   | WEIGHT: 2310.39 g                         |
|  |  |           | SCALE: 1:2   | SHEET 33                                      | REVISION: A                               |




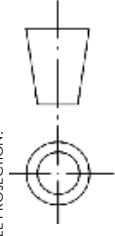
|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J. K.  | 10-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M. H.  | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D  |  | DR. AKM SAIFUL ISLAM   | A. S. I.  | 16-APR-2024  | DRG. NAME: RIM SHAFT FOR FRONT WHEEL          |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S1-016   |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |  |           |  |   |                      |  |
| MANUFACTURING METHOD: MACHINING, BENDING & WELDING   |  |  |           | MATERIAL: Plain Carbon Steel   |   |                      |  |
| SCALE: 1:2   |  |  |           | SHEET 34   |   | REVISION: A          |  |
| WEIGHT: 617.96 g   |  |  |           | A4   |   |                      |  |

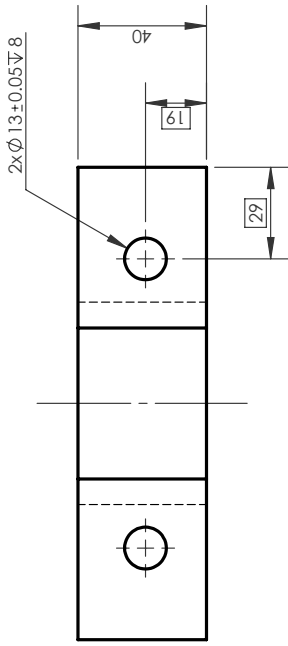


|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 10-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| APP'D  |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: REAR WHEEL SHAFT                   |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S1-017   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                                   |           |  |   |                      |  |
|  |  | MATERIAL: Plain Carbon Steel   |           | WEIGHT: 9648.59 g  |   | REVISION: A          |  |
|  |  | SCALE: 1:10  |           | SHEET 35   |   | A                    |  |

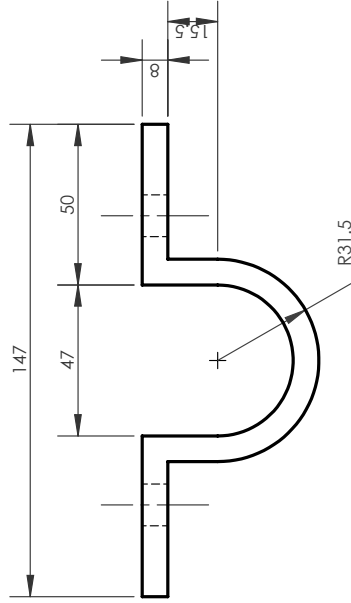
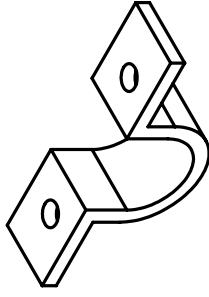



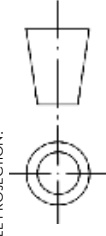
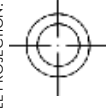
BALL BEARING: 6205  
 INNER DIA: 25mm  
 OUTER DIA: 52mm  
 QUANTITY: 06 (FOR WHEELS)

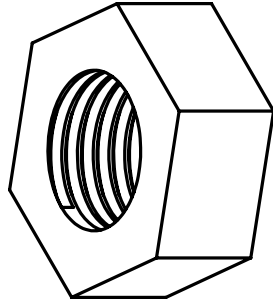
|  |  |           |  |   |   |
|--|--|-----------|--|---|---|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |           | BANGLADESH RICE RESEARCH INSTITUTE   |   | DO NOT SCALE DRAWING                      |
|  |  |           | SFMRA PROJECT, FMPHT DIVISION  |   | FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |
| DETAILS  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |   |
| DRAWN  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 10-FEB-2024  | DRG. NAME: 6205 RS BEARING                    |   |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S1-018                        |   |
| APP'VD   | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | FINDING METHOD: SHOP                          |   |
| THIRD ANGLE PROJECTION:  |  |           |  |   |   |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |           | MATERIAL: Stainless Steel (ferritic)   |   | WEIGHT: 0.02 g                            |
|  |  |           | SCALE: 1:1   | SHEET 36                                      | REVISION: A                               |




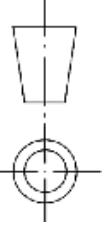
N.B: MODEL IS SYMMETRY.  
ONLY ONE SIDE DIMENSIONS HAS SHOWN FOR HOLES.

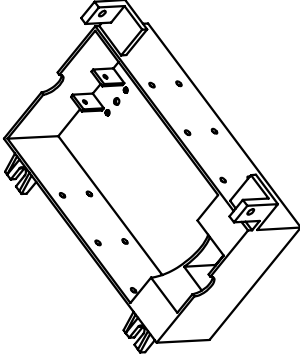
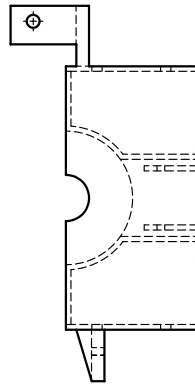
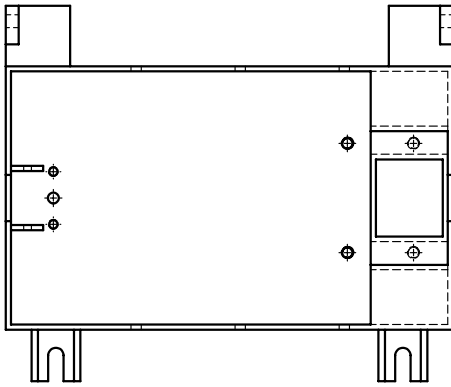


|   |  |   |           |  |   |                      |  |
|---|--|---|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |   |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME  | SIGNATURE | DATE   | FINISH: NONE                                  |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN RHAN   | S. J.K    | 10-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN   | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| APP'VD  |  | DR. AKM SAIBUL ISLAM  | A.S.I     | 16-APR-2024  | DRG. NAME: REAR AXLE HOLDER                   |                      |  |
| THIRD ANGLE PROJECTION:   |  |   |           | DWG NO: RM2024A-S1-019   |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  |  |           | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                         |   |                      |  |
|   |  |   |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 526.05 g     |  |
|   |  |   |           | SCALE: 1:2   |   | REVISION: A          |  |
|   |  |   |           | SHEET 37   |   | A                    |  |

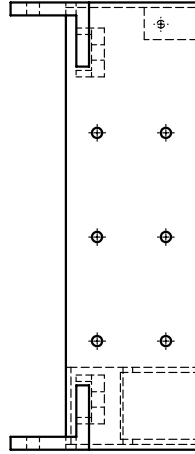



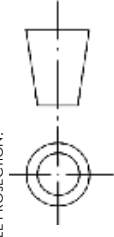
REAR WHEEL AXLE LOCK NUT  
 SIZE: M25x3.0  
 QUANTITY: 02

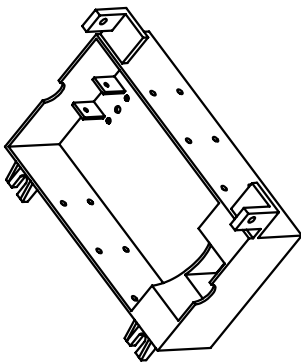
|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMEER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 10-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D  |  | DR. AKKI SAIBUL ISLAM  | A. S.I    | 16-APR-2024  | DRG. NAME: WHEEL SHAFT NUT M25 (REAR)         |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S1-020   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  | FINDING METHOD: SHOP   |           | MATERIAL: Stainless Steel (ferritic)                                       |   |                      |  |
|  |  | SCALE: 1:1   |           | SHEET 38   |   | WEIGHT: 127.77 g     |  |
|  |  |  |           |  |   | REVISION: A          |  |



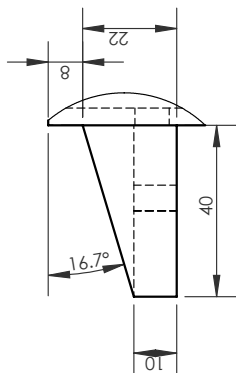
N.B: DETAIL VIEW FOR FRONT, RIGHT, TOP HAS SHOWN IN NEXT PAGES.



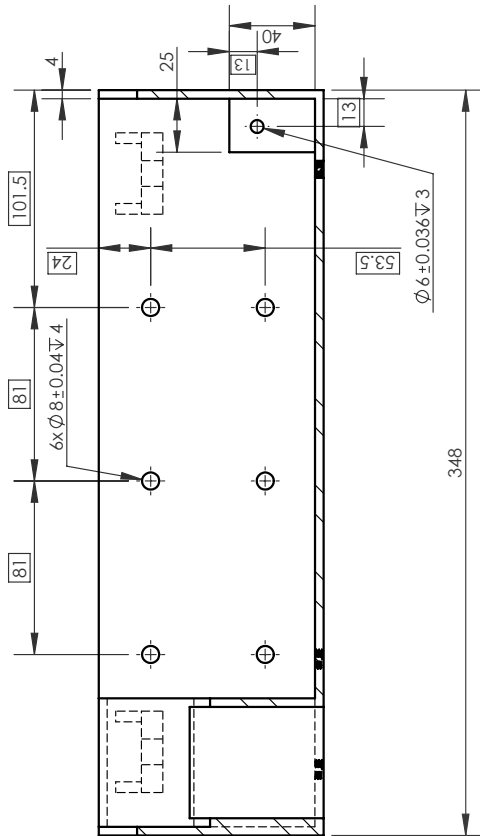
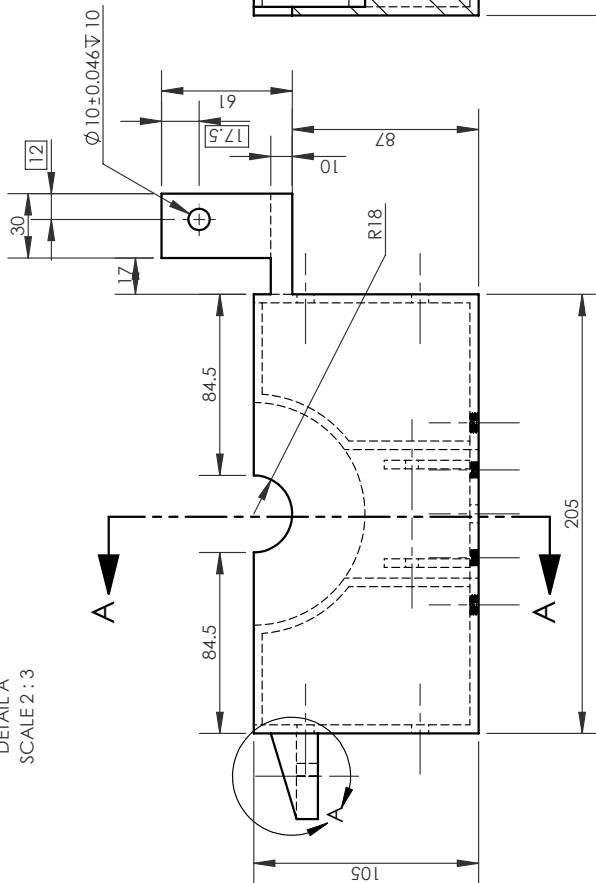
|   |                           |  |             |  |  |                           |  |
|---|---------------------------|--|-------------|--|--|---------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |  | DO NOT SCALE DRAWING      |  |
| DETAILS   | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)  |  |                           |  |
| DRAWN   | ENGR. SHAFER JAHAN RHAN   | S. J.K   | 14-FEB-2024 | FINISH: NONE   |  | FIRST ISSUED: 06-FEB-2024 |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | DRG. NAME: BODY TOP COVER  |  |                           |  |
| APP'VD  | DR. AKM SAIFUL ISLAM      | A.S.I  | 16-APR-2024 | DWG NO: RM2024A-S2.A-021   |  |                           |  |
| THIRD ANGLE PROJECTION:   |                           |  |             |  |  |                           |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |                           |  |             | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                                   |  |                           |  |
|   |                           |  |             | MATERIAL: Plain Carbon Steel   |  | WEIGHT: 7142.23 g         |  |
|   |                           |  |             | SCALE: 1:5   |  | REVISION: A               |  |
|   |                           |  |             | SHEET 39   |  | A                         |  |



**N.B:** MODEL IS SYMMETRY.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY **FRONT VIEW & SECTION A-A** FROM **FRONT VIEW DIMENSIONS** HAS SHOWN IN THIS SHEET.  
 \*CHECK NEXT 2 PAGES FOR ALL VIEWS.  
 \*SHEET THICKNESS: 4mm  
 \*SCALE 1:3

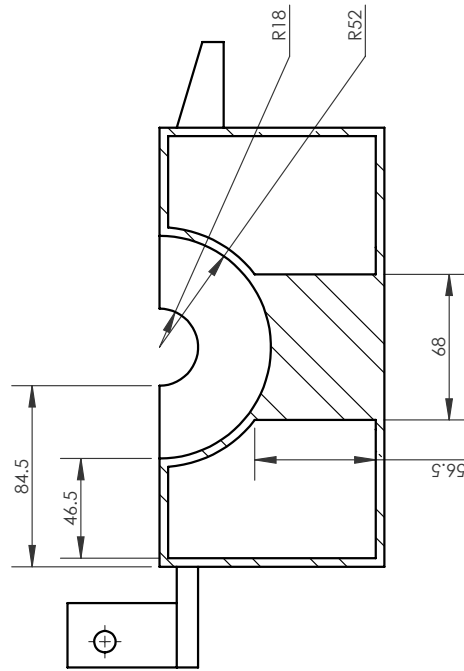
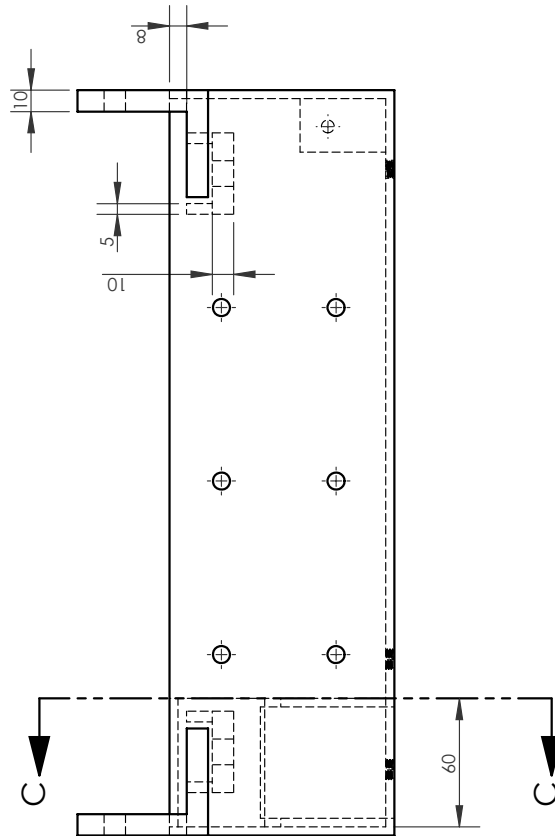
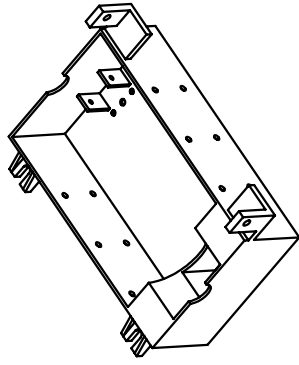


DETAIL A  
SCALE 2 : 3



SECTION A-A  
SCALE 1 : 3

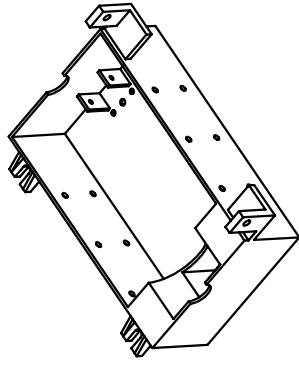
**N.B: MODEL IS SYMMETRY.**  
**\*NOT A COMPLETE DRAWING.**  
**\*ONLY RIGHT VIEW AND SECTION FROM RIGHT**  
**VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.**  
**\*SHEET THICKNESS: 4mm**  
**\*SCALE 1:3**



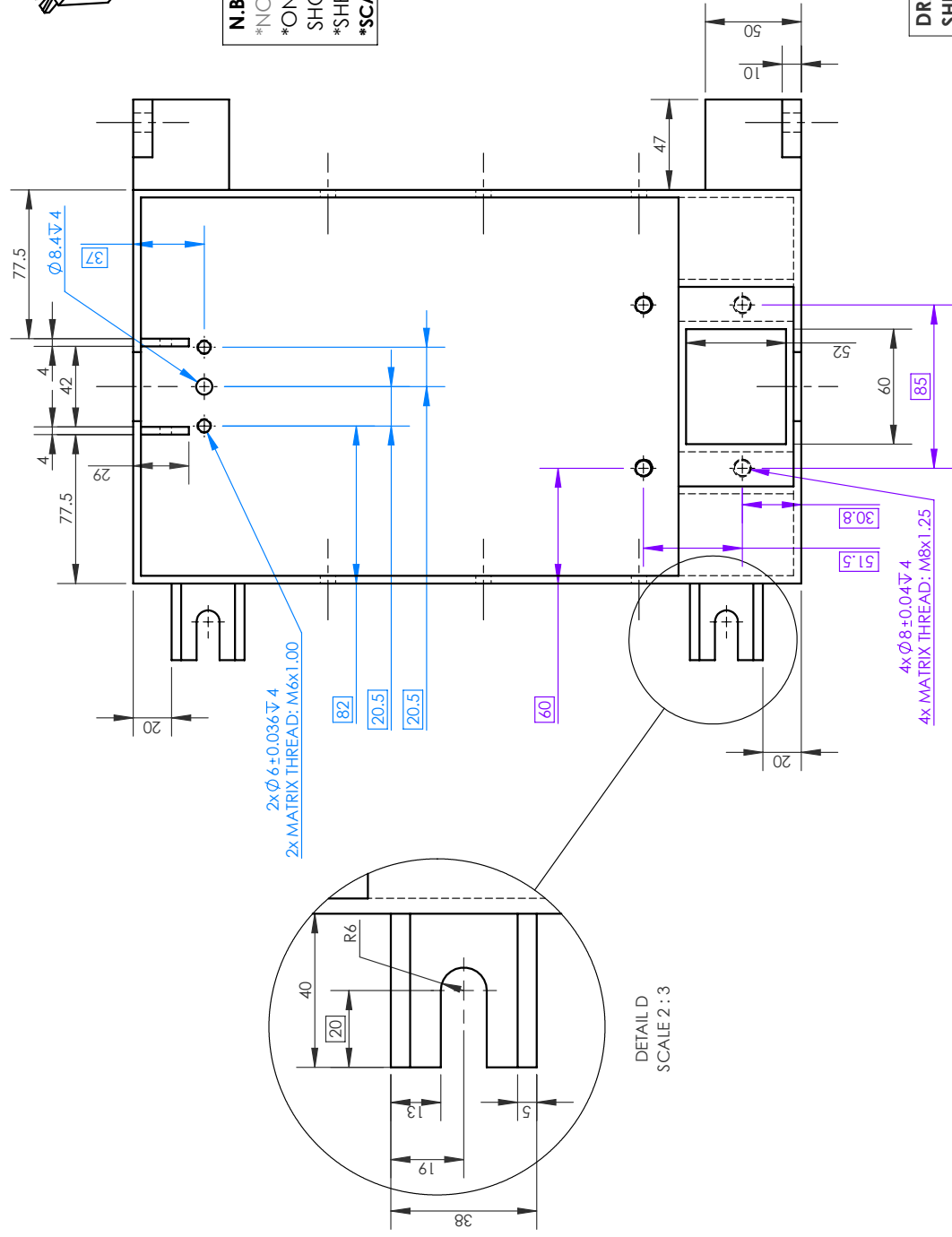
SECTION C-C  
 SCALE 1 : 3

**DRAWING NO: RM2024A-S2.A-021**  
**SHEET NO: 41**

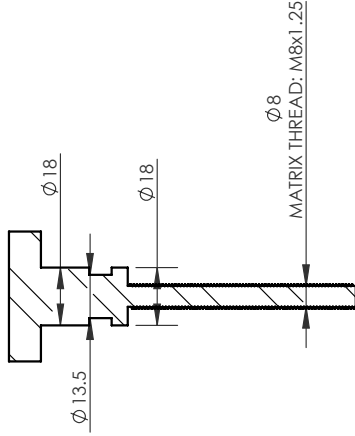
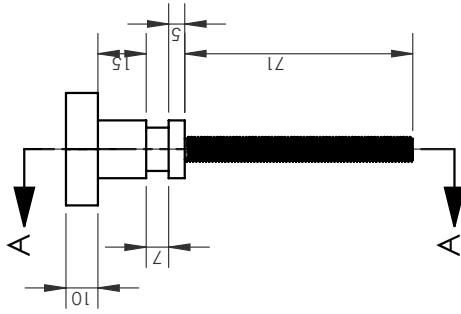
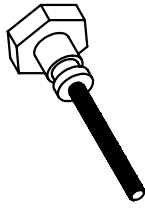
**N.B:** BLUE COLOR DIMENSIONS IS FOR THE PLACEMENT OF PRESSURE CONTROL DEVICE.  
**N.B:** PURPLE COLOR DIMENSIONS IS FOR THE PLACEMENT OF HOPPER.



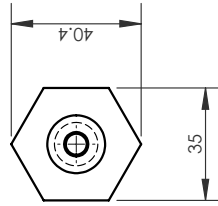
**N.B:** MODEL IS SYMMETRY.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY TOP VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 4mm  
 \*SCALE 1:3


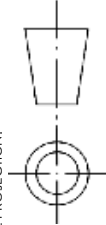
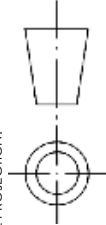


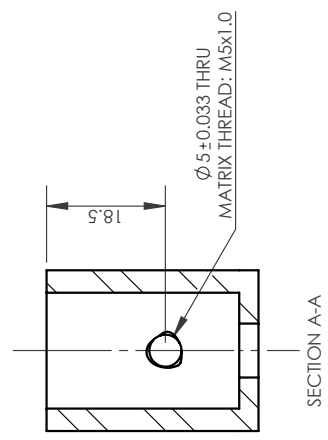
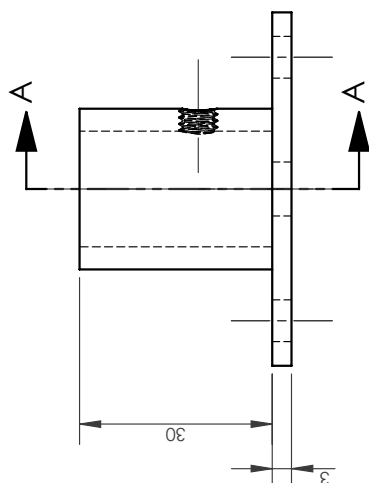
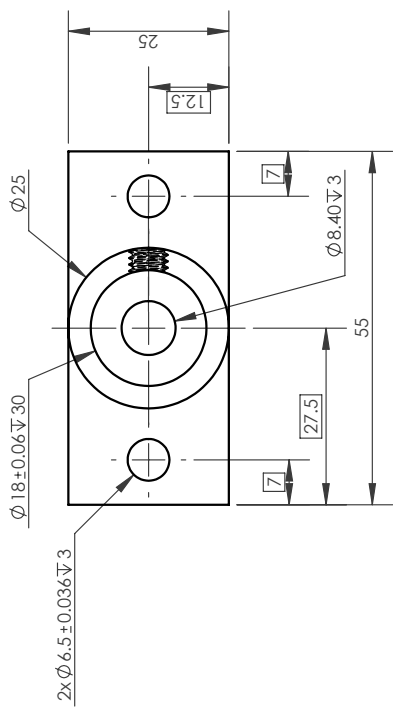
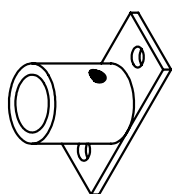
**DRAWING NO:** RM2024A-S2.A-021  
**SHEET NO:** 42


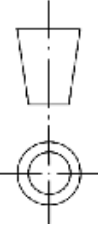


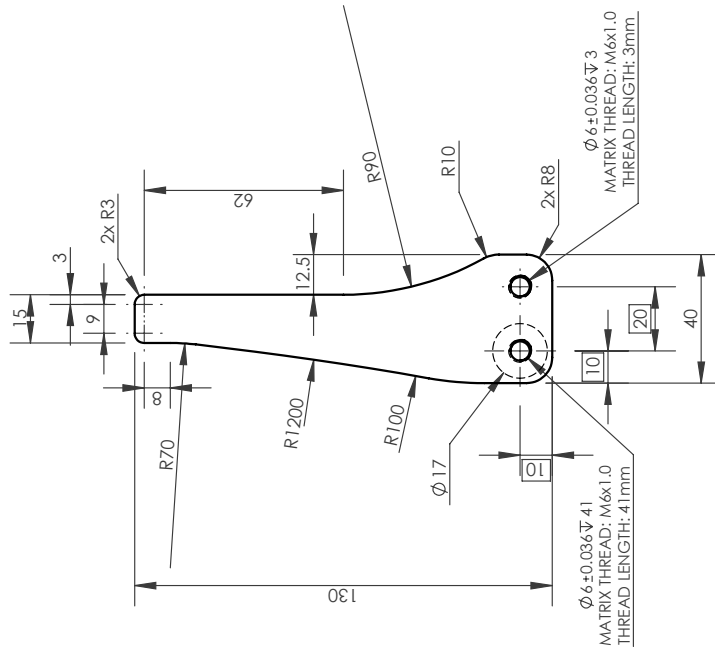
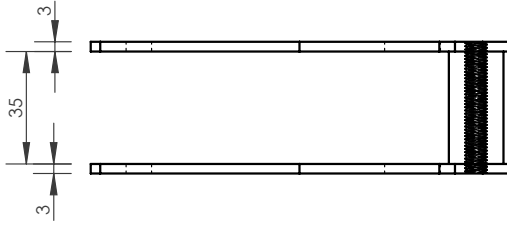
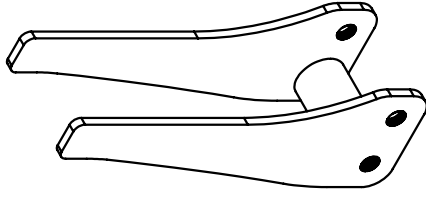
SECTION A-A




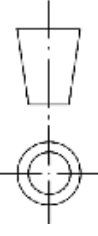
|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 14-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| APP'VD  |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: BODY TOP COVER - PRESSURE KEY      |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S2.A-022   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |  |           | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                         |   |                      |  |
|   |  |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 151.44 g     |  |
|   |  |  |           | SCALE: 1:2   |   | REVISION: A          |  |
|   |  |  |           | SHEET 43   |   | A                    |  |

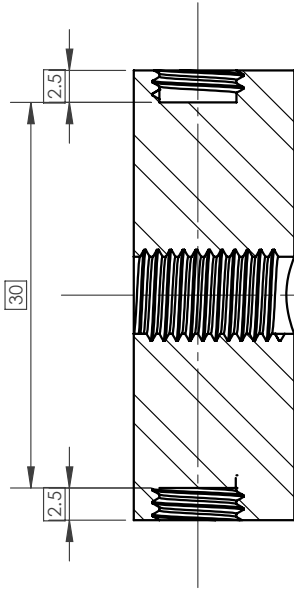
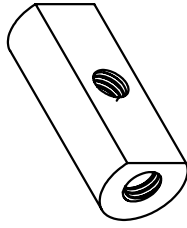


|   |                           |  |             |  |  |   |  |
|---|---------------------------|--|-------------|--|--|---|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |  | DO NOT SCALE DRAWING<br>FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |  |
| DETAILS   | NAME                      | SIGNATURE  | DATE        | <b>TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)</b>                                 |  |   |  |
| DRAWN   | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 14-FEB-2024 | <b>DRG. NAME: PRESSURE KEY HOLDER</b>  |  |   |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | <b>DWG NO: RM2024A-S2.A-023</b>  |  |   |  |
| APP'D   | DR. AKM SAIFUL ISLAM      | A.S.I  | 16-APR-2024 | <b>MANUFACTURING METHOD: MACHINING, BENDING &amp; WELDING</b>                        |  |   |  |
| THIRD ANGLE PROJECTION:   |                           |  |             |  |  |   |  |
| <b>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</b>  |                           |  |             | <b>MATERIAL: Plain Carbon Steel</b><br><b>SCALE: 1:1</b><br><b>WEIGHT: 83.99 g</b>   |  |   |  |
|   |                           |  |             | <b>SHEET 44</b>  |  | <b>REVISION: A</b>  |  |

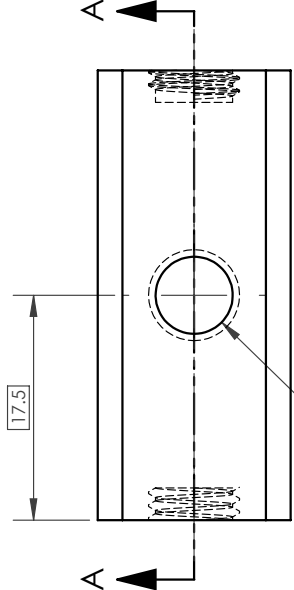


**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

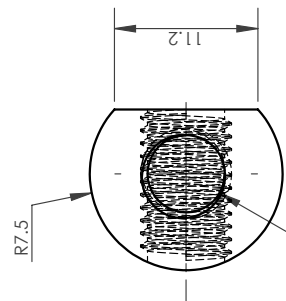
|  |  |  |                      |   |                           |
|--|--|--|----------------------|---|---------------------------|
|    |  | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |                      | DO NOT SCALE DRAWING                          |                           |
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLESIZE |  | SIGNATURE<br>S. J.K  | DATE<br>14-FEB-2024  | FINISH:<br>NONE                               | FIRST ISSUED: 06-FEB-2024 |
| DETAILS NAME<br>DRAWN ENGR. SHAFER JAHAN RHAN<br>CHK'D DR. MD. MOSHARRAF HOSSAIN<br>APP'D DR. AKM SAIBUL ISLAM                                   |  | M M.H<br>A S.I   | M M.H<br>16-APR-2024 | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                           |
| THIRD ANGLE PROJECTION:  |  |  |                      | DRG. NAME: PRESSURE CLAMP                     |                           |
| DRG. NO: RM2024A-S2.A-024  |  | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                                   |                      | WEIGHT: 199.89 g                              |                           |
| MATERIAL: Plain Carbon Steel   |  | SCALE: 1:2   |                      | SHEET 45                                      |                           |
| REVISION:  |  | A  |                      | A   |                           |




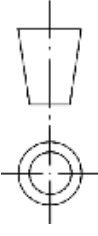
SECTION A-A

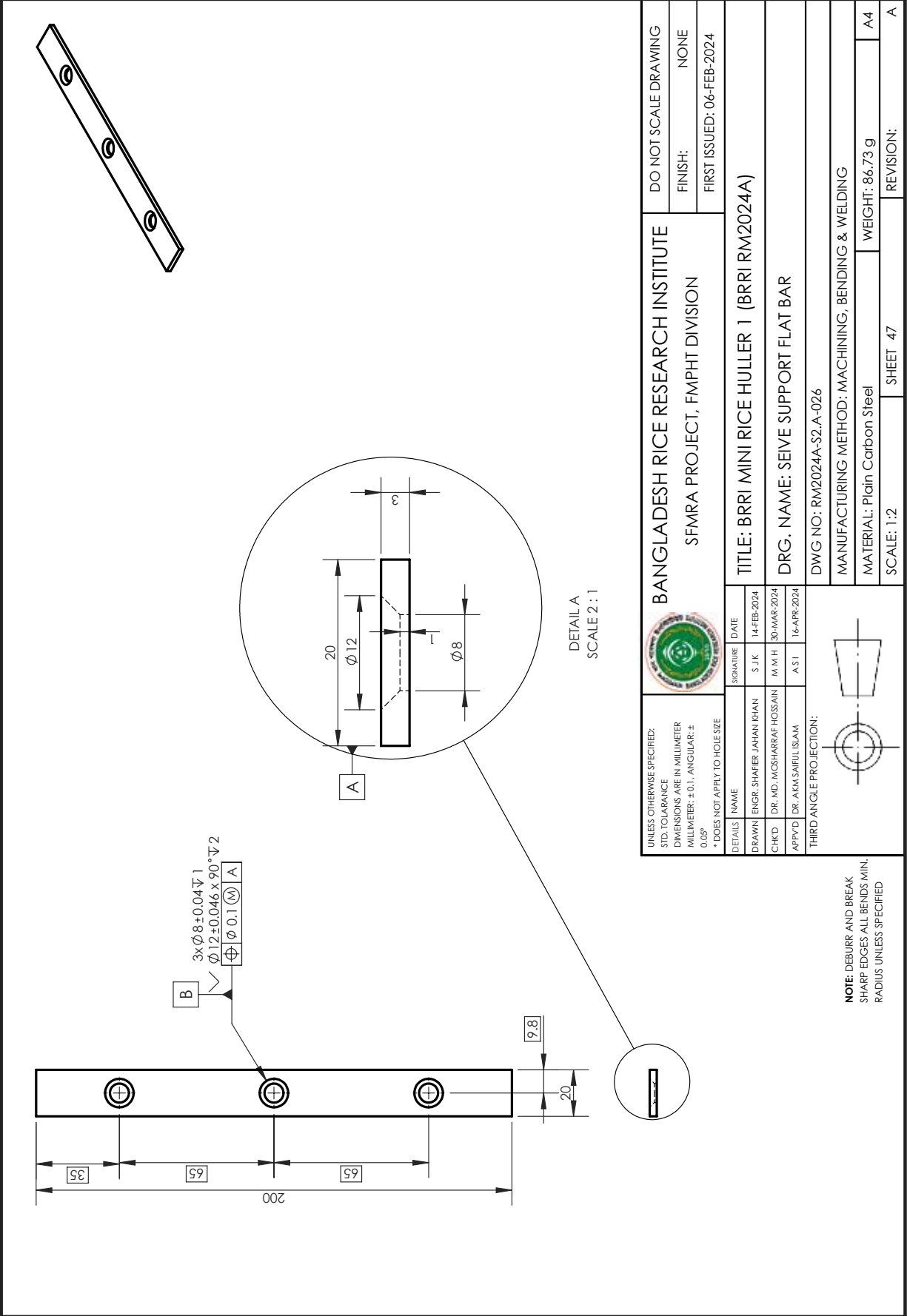



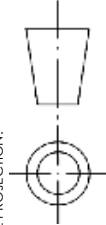

$\phi 6 \pm 0.036 \nabla 12.5$   
MATRIX THREAD: M6x1.0  
THREAD LENGTH: 12.5mm

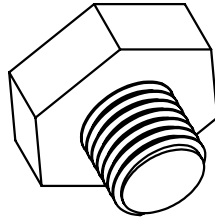


$\phi 6 \pm 0.036 \nabla 2.5$   
MATRIX THREAD: M6x1.0  
THREAD LENGTH: 2.5mm


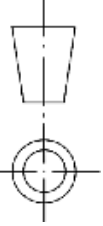
|  |  |   |  |                           |
|--|--|---|--|---------------------------|
|    |  | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION  |  | DO NOT SCALE DRAWING      |
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: $\pm 0.1$ , ANGULAR: $\pm 0.05^\circ$<br>* DOES NOT APPLY TO HOLE SIZE                     |  | TITLE: <b>BRRI MINI RICE HULLER 1 (BRRI RM2024A)</b><br>DRG. NAME: <b>PRESSURE CLAMP PIN</b><br>DWG NO: <b>RM2024A-S2.A-025</b> |  | FINISH: NONE              |
| DETAILS NAME SIGNATURE DATE<br>DRAWN ENGR. SHAFER JAHAN RHAN S.J.K 14-FEB-2024<br>CHK'D DR. MD. MOSHARRAF HOSSAIN M.M.H 30-MAR-2024<br>APP'VD DR. AKM SAIBUL ISLAM A.S.I 16-APR-2024 |  | THIRD ANGLE PROJECTION:   |  | FIRST ISSUED: 06-FEB-2024 |
|    |  | MANUFACTURING METHOD: MACHINING, BENDING & WELDING<br>MATERIAL: Plain Carbon Steel<br>SCALE: 2:1                                |  | WEIGHT: 38.51 g           |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  | SHEET 46  |  | REVISION: A               |

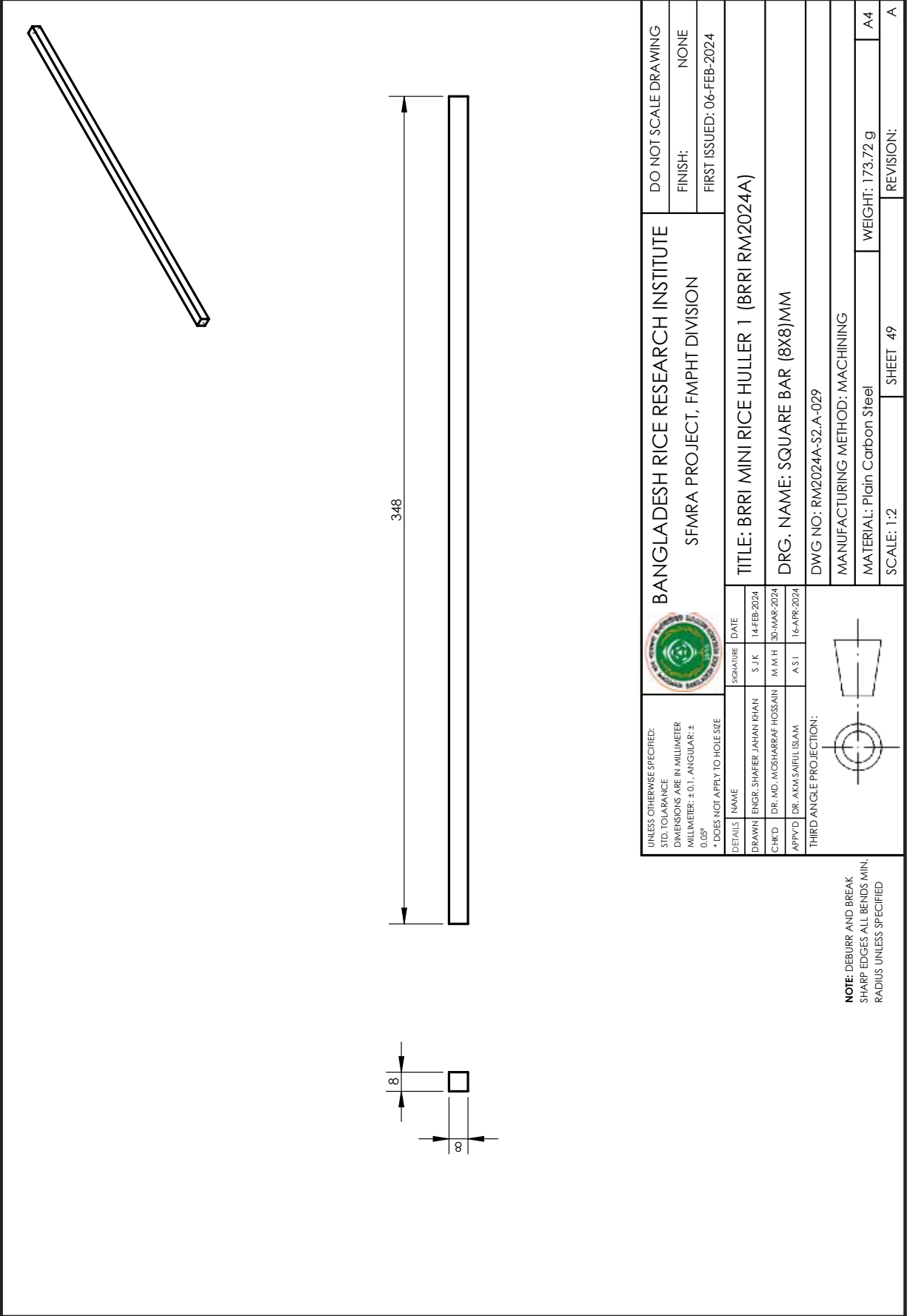



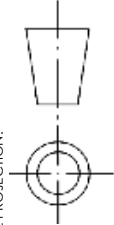

|  |                           |  |             |  |  |                      |  |
|--|---------------------------|--|-------------|--|--|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: $\pm 0.1$ , ANGULAR: $\pm 0.05^\circ$<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING |  |
| DETAILS  | NAME                      | SIGNATURE  | DATE        | FINISH: NONE   |  |                      |  |
| DRAWN  | ENGR. SHAFER JAHAN RHAN   | S. J.K   | 14-FEB-2024 | FIRST ISSUED: 06-FEB-2024  |  |                      |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |  |                      |  |
| APP'VD   | DR. AKM SAIBUL ISLAM      | A.S.I  | 16-APR-2024 | DRG. NAME: SEIVE SUPPORT FLAT BAR  |  |                      |  |
| THIRD ANGLE PROJECTION:  |                           |  |             | DWG NO: RM2024A-S2.A-026   |  |                      |  |
|    |                           |  |             | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                         |  |                      |  |
|   |                           |  |             | MATERIAL: Plain Carbon Steel   |  | WEIGHT: 86.73 g      |  |
|  |                           |  |             | SCALE: 1:2   |  | REVISION: A          |  |
|  |                           |  |             | SHEET 47   |  | A                    |  |

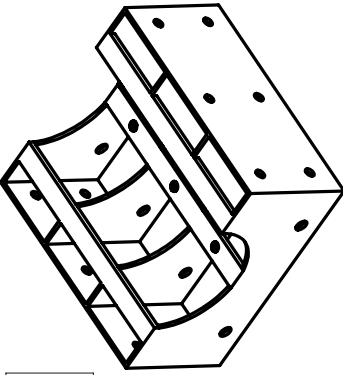


PRESSURE CONTROLLER BOLT: M6  
 SIZE: M6  
 THREAD: M6x1.0  
 LENGTH OF THREAD: 6mm  
 QUANTITY: 02 (FOR BOTH SIDE)

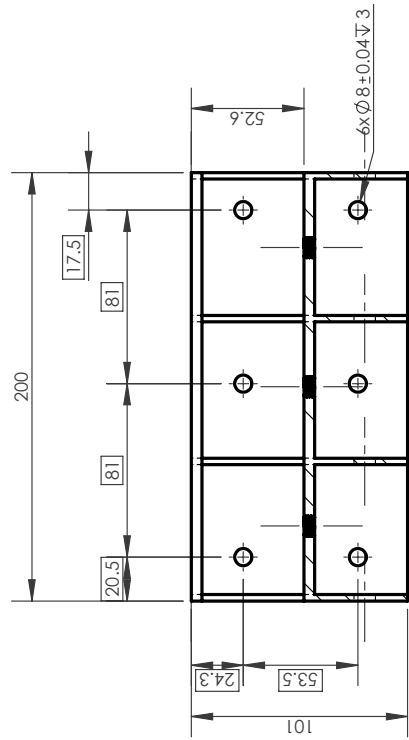
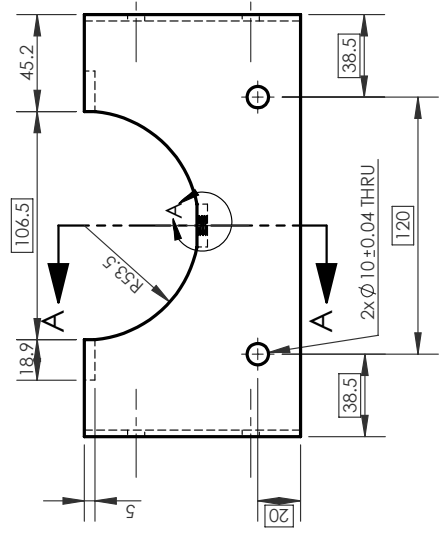
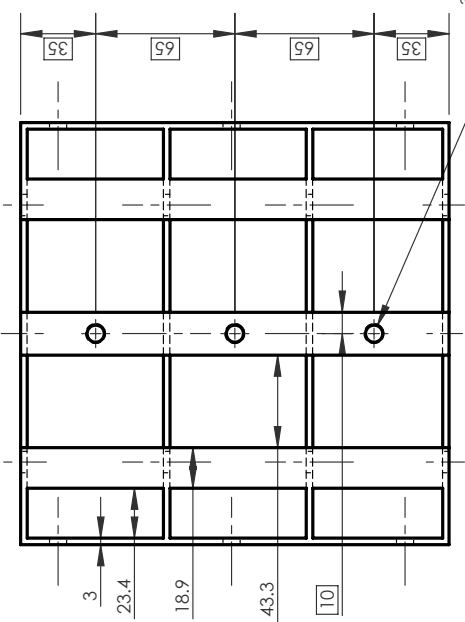
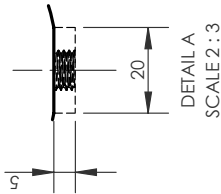
|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)     |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 14-FEB-2024  | DRG. NAME: PRESSURE CONTROLLER BOLT M6 (LONG 6MM) |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S2.A-028                          |                      |  |
| APP'D  |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | FINDINGS: SHOP                                    |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | MATERIAL: Stainless Steel (ferritic)                                       |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK<br>SHARP EDGES ALL BENDS MIN.<br>RADIUS UNLESS SPECIFIED   |  | SCALE: 2:1   |           | SHEET 48   |   | WEIGHT: 9.99 g       |  |
|  |  |  |           |  |   | REVISION: A          |  |



|   |  |   |           |  |   |                      |  |
|---|--|---|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |   |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME  | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN   | S. J.K    | 14-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN   | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D   |  | DR. AKM SAIFUL ISLAM  | A.S.I     | 16-APR-2024  | DRG. NAME: SQUARE BAR (8X8)MM                 |                      |  |
| THIRD ANGLE PROJECTION:   |  |   |           | DWG NO: RM2024A-S2.A-029   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |  |           | MANUFACTURING METHOD: MACHINING  |   |                      |  |
|   |  | MATERIAL: Plain Carbon Steel  |           | WEIGHT: 173.72 g   |   | A4                   |  |
|   |  | SCALE: 1:2  |           | SHEET 49   |   | REVISION: A          |  |



\*MODEL IS SYMMETRY.  
 \*SHEET THICKNESS: 3mm.  
 \*FLAT BAR THICKNESS: 5mm.



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 SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING  
 FINISH: NONE  
 FIRST ISSUED: 06-FEB-2024

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: NET FRAME - TOP

DWG NO: RM2024A-S2.A-030

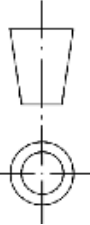
MANUFACTURING METHOD: MACHINING, BENDING & WELDING

MATERIAL: Plain Carbon Steel

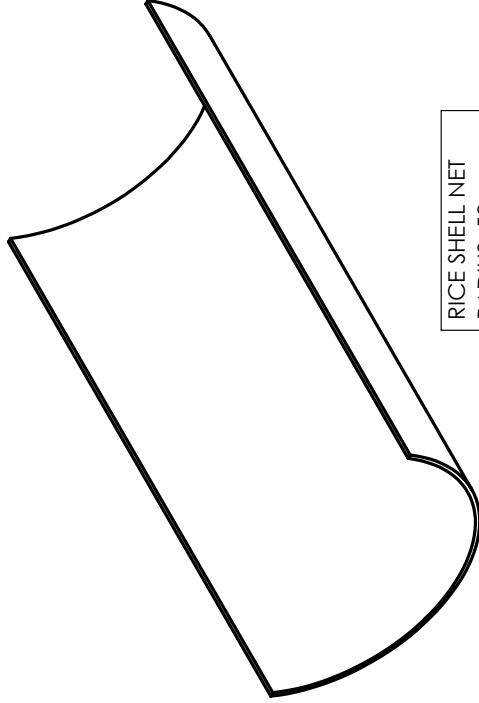
SCALE: 1:5

WEIGHT: 2719.32 g


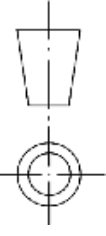
REVISION: A

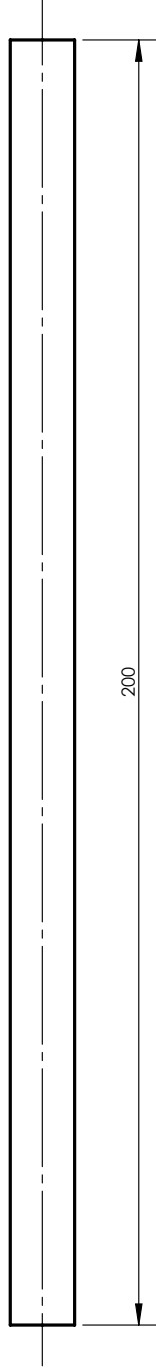
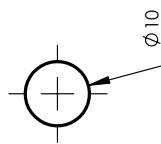
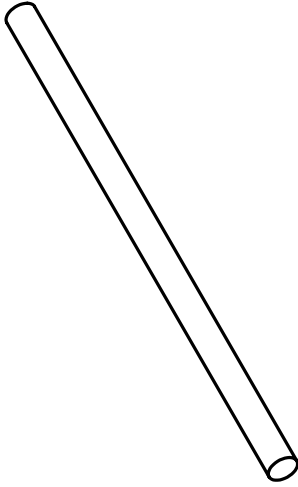



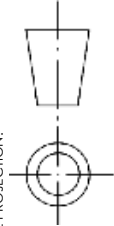
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

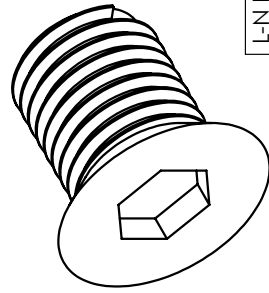


RICE SHELL NET  
 RADIUS: 52mm  
 LENGTH: 200mm  
 WIDTH: 106mm  
 THICKNESS: 1.5mm


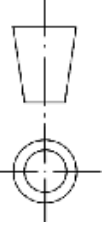
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|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 28-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 26-MAR-2024  | FIRST ISSUED: 17-FEB-2024                     |                      |  |
| APP'D   |  | DR. AKM SAIFUL ISLAM   | A. S.I    | 30-APR-2024  | DRG. NAME: RICE SHELL NET                     |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S2.A-031   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  | FINDINGS: SHOP   |           | MATERIAL: Plain Carbon Steel   |   |                      |  |
|   |  | SCALE: 1:5   |           | SHEET 51   |   | WEIGHT: 356.42 g     |  |
|   |  |  |           |  |   | REVISION: A          |  |

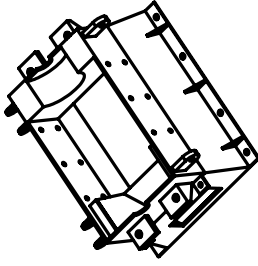
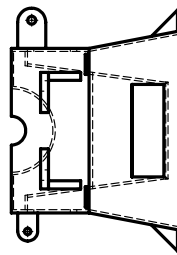
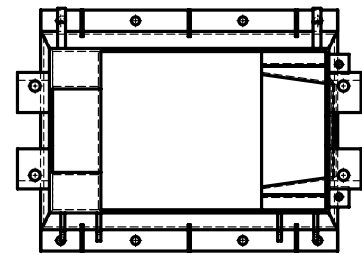


|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 14-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D   |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: POLISHER CASING FRAME PART - 1     |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S2.A-032   |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  |  |           |  |   |                      |  |
| MANUFACTURING METHOD: MACHINING   |  | MATERIAL: Plain Carbon Steel   |           | SCALE: 1:2   |   | SHEET 52             |  |
| WEIGHT: 122.52 g  |  | REVISION:  |           | A  |   |                      |  |

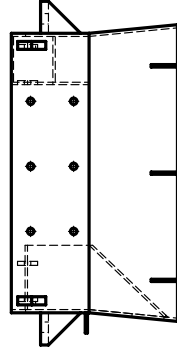



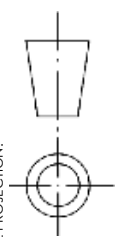
L-N KEY BOLT  
 SIZE: **M8**  
 THREAD: M8x1.25  
 QUANTITY: 06

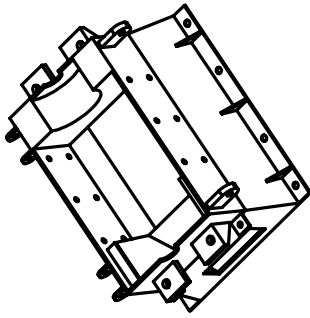
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|---|--|--|-----------|--|--|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: <b>BRRI MINI RICE HULLER 1 (BRRI RM2024A)</b> |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 14-FEB-2024  | DRG. NAME: <b>LN KEY DIA 8 BOLT</b>                  |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: <b>RM2024A-S2.A-033</b>                      |                      |  |
| APP'VD  |  | DR. AKKI SAIBUL ISLAM  | A.S.I     | 16-APR-2024  | FINDINGS: <b>SHOP</b>                                |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | MATERIAL: <b>Plain Carbon Steel</b>  |  |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK<br>SHARP EDGES ALL BENDS MIN.<br>RADIUS UNLESS SPECIFIED  |  | SCALE: <b>5:1</b>  |           | SHEET <b>53</b>  |  | REVISION: <b>A</b>   |  |
|   |  | WEIGHT: <b>4.02 g</b>  |           | A4   |  |                      |  |



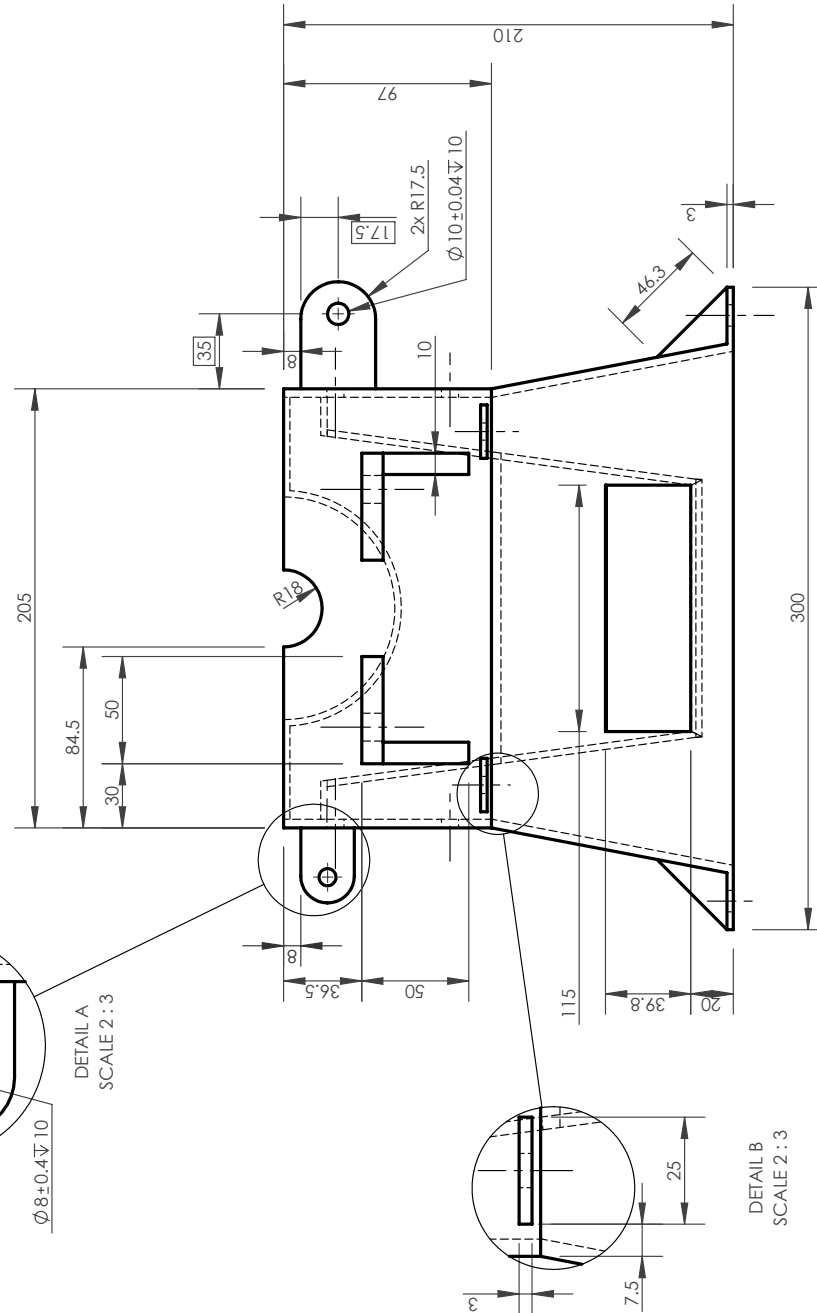
N.B: DETAIL VIEW FOR FRONT, RIGHT, TOP HAS SHOWN IN NEXT PAGES.



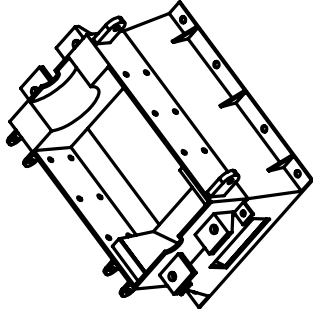
|   |  |           |  |  |                      |
|---|--|-----------|--|--|----------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |           | BANGLADESH RICE RESEARCH INSTITUTE   |  | DO NOT SCALE DRAWING |
|   |  |           | SFMRA PROJECT, FMPHT DIVISION  |  | FINISH: NONE         |
| DETAILS   | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)      |                      |
| DRAWN   | ENGR. SHAHEER JAHAN KHAN   | S. J.K    | 16-FEB-2024  | DRG. NAME: BODY BOTTOM CASING                      |                      |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S2.B-035                           |                      |
| APP'VD  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-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   |  |           | SHEET 54   |  | REVISION: A          |
| WEIGHT: 10570.16 g  |  |           | A4   |  | A                    |



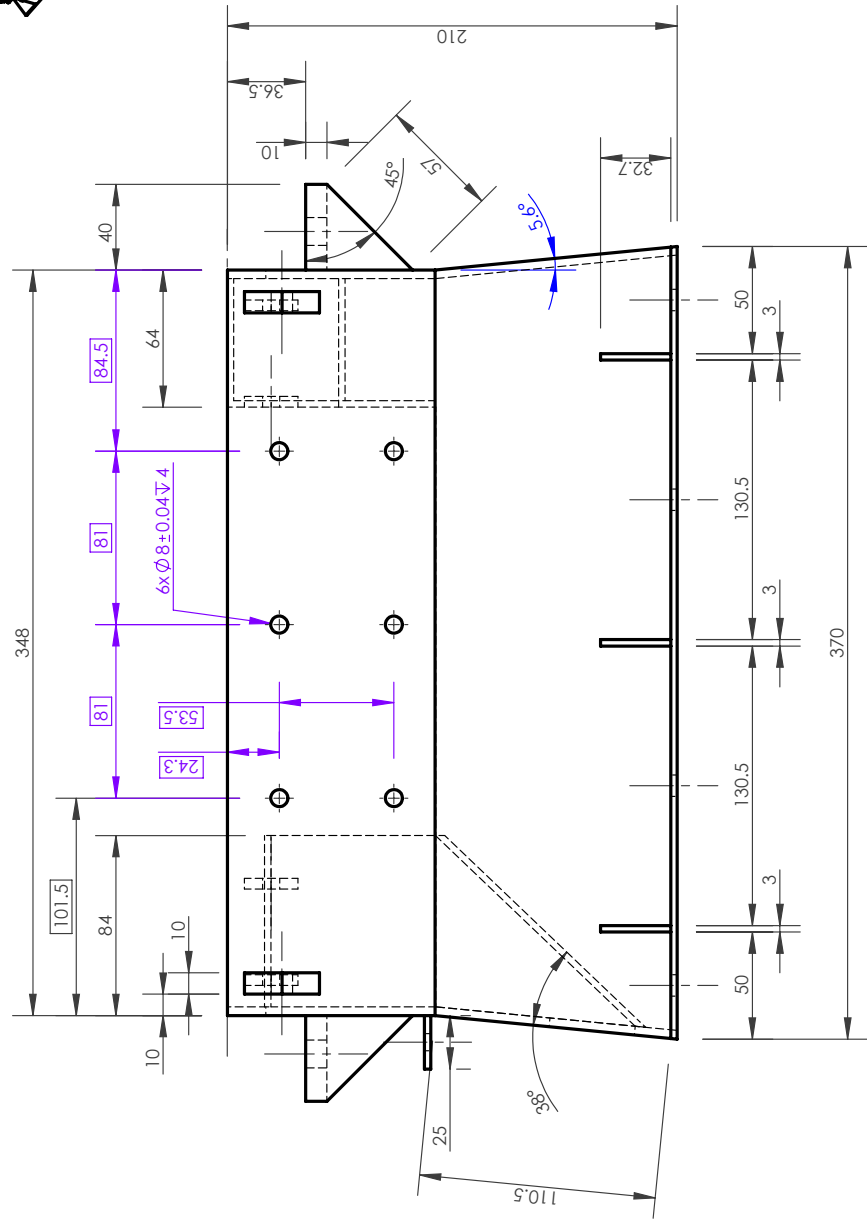
**N.B:** MODEL IS SYMMETRY.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY **FRONT VIEW DIMENSIONS** HAS SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 4mm  
 \*SCALE 1:3



DWG NO: RM2024A-S2.B-035  
 SHEET NO: 55



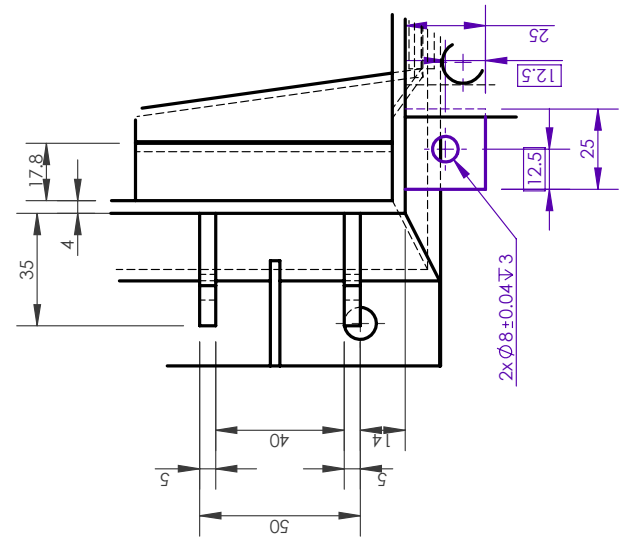
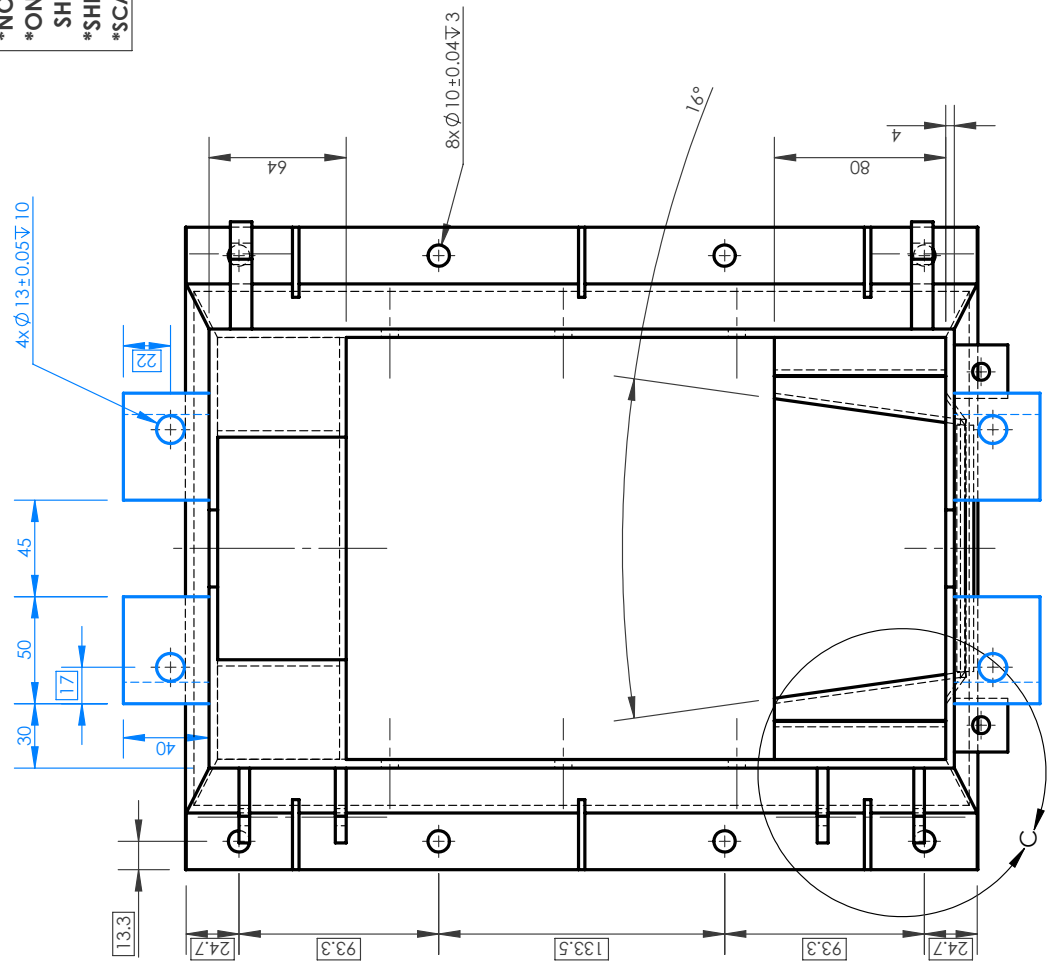
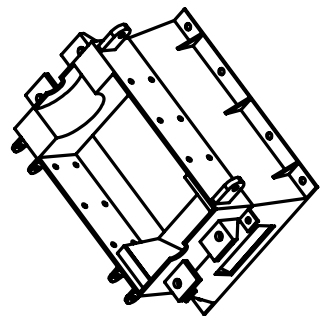
**N.B: MODEL IS SYMMETRY.**  
**\*NOT A COMPLETE DRAWING.**  
**\*ONLY RIGHT VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.**  
**\*SHEET THICKNESS: 4mm**  
**\*SCALE 1:3**



DRAWING NO: RM2024A-S2.B-035  
 SHEET NO: 56

\*PURPLE COLORED DIMENSIONS FOR THE NETFRAME HOLES.

N.B: MODEL IS SYMMETRY.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY TOP VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 4mm  
 \*SCALE 1:3

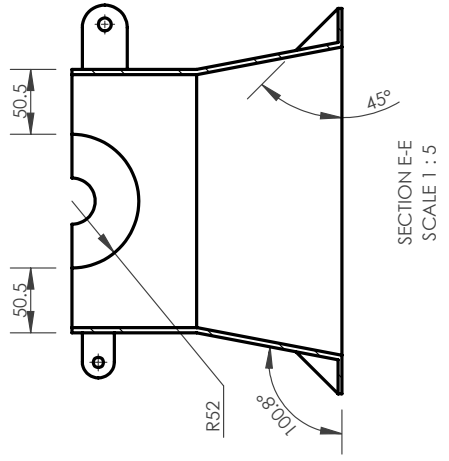
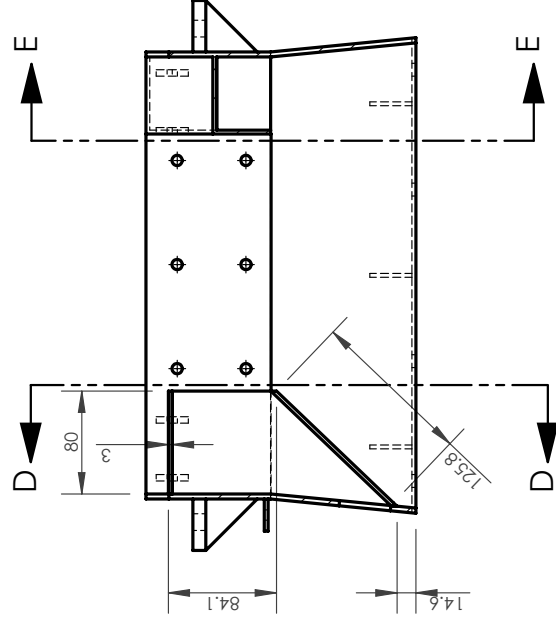
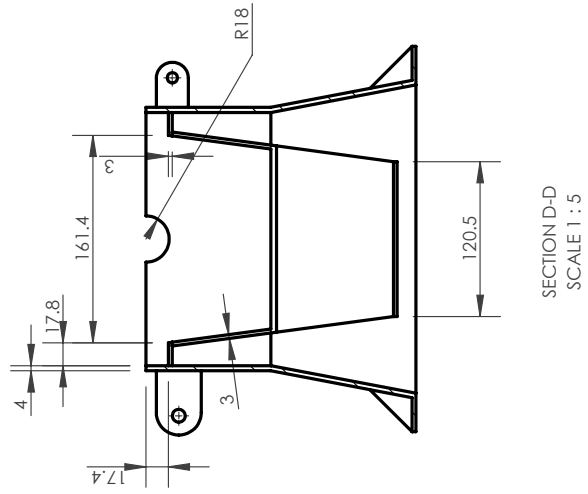
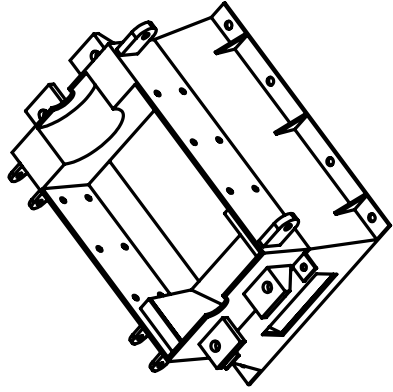


DETAIL C  
 SCALE 1 : 2

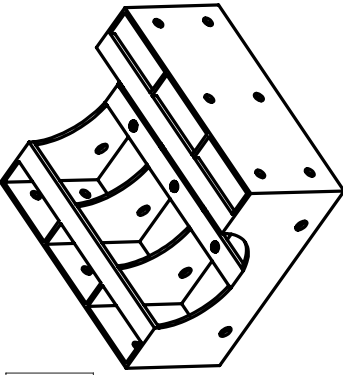
DRAWING NO: RM2024A-S2.B-035  
 SHEET NO: 57

\*BLUE COLORED DIMENSIONS FOR THE NETFRAME HOLES.\*

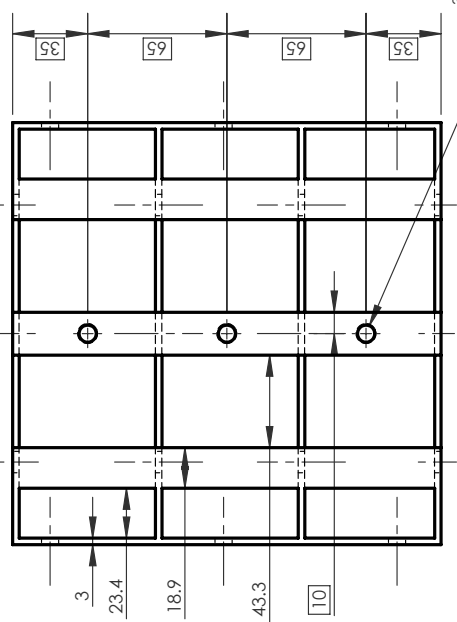
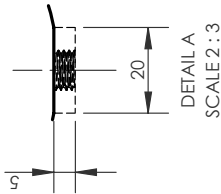
N.B: MODEL IS SYMMETRY.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY BROKEN-OUT SECTION VIEW (FROM RIGHT VIEW)AND TWO SECTION VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 4mm  
 \*SCALE 1:5



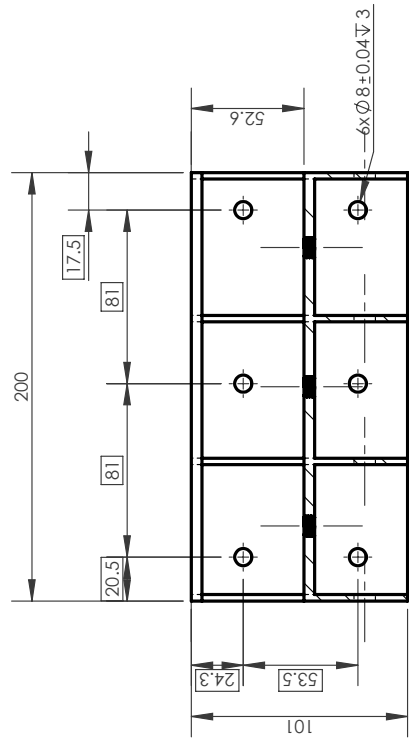
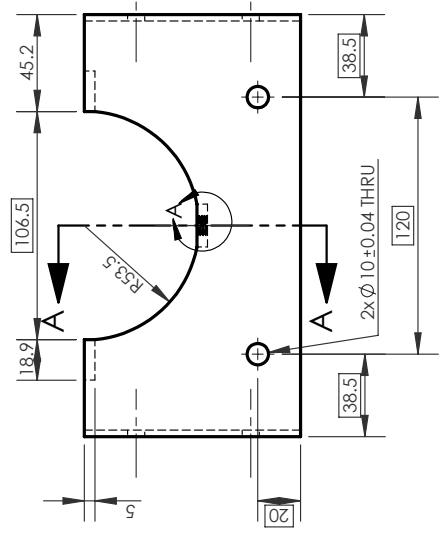
DRAWING NO: RM2024A-S2.B-035  
 SHEET NO: 58



\*MODEL IS SYMMETRY.  
 \*SHEET THICKNESS: 3mm.  
 \*FLAT BAR THICKNESS: 5mm.



3x  $\phi 8 \pm 0.04 \nabla 5$   
 MATRIX THREAD: M8x1.25



**BANGLADESH RICE RESEARCH INSTITUTE**  
 SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING  
 FINISH: NONE  
 FIRST ISSUED: 06-FEB-2024

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: NET FRAME - TOP

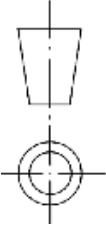
DWG NO: RM2024A-S2.B-036

MANUFACTURING METHOD: MACHINING, BENDING & WELDING

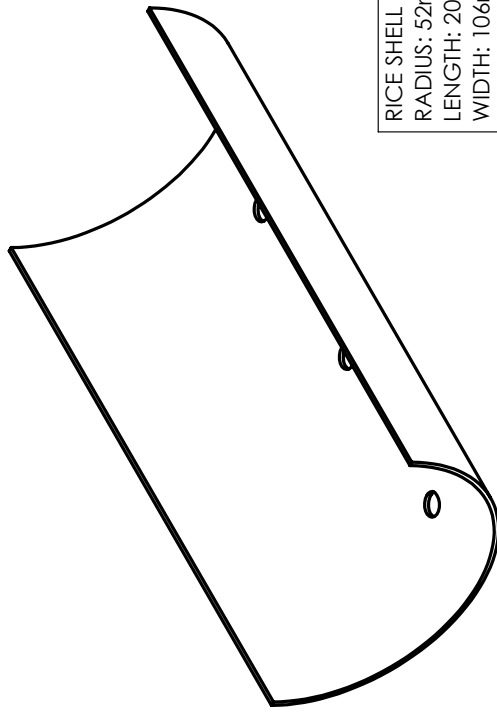
MATERIAL: Plain Carbon Steel

WEIGHT: 2719.32 g


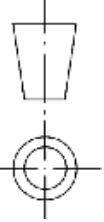
REVISION: A



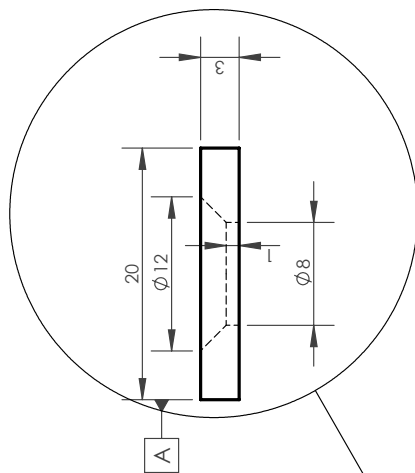
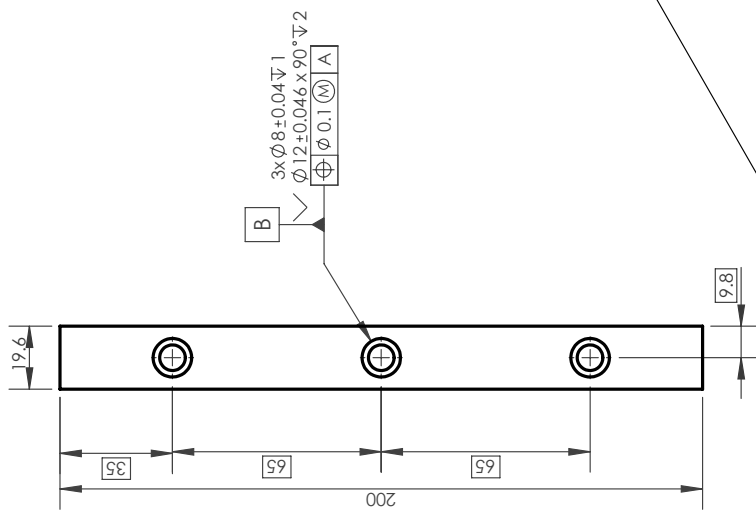
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED



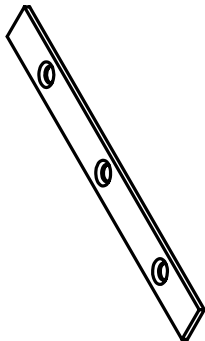
RICE SHELL NET  
 RADIUS: 52mm  
 LENGTH: 200mm  
 WIDTH: 106mm  
 THICKNESS: 1.5mm


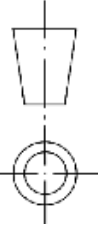
|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 16-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D  |  | DR. AKM SAIBUL ISLAM   | A. S.I    | 16-APR-2024  |   |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DRG. NAME: SHELL NET   |   |                      |  |
|  |  |  |           | DWG NO: RM2024A-S2.B-037   |   |                      |  |
|  |  |  |           | FINDINGS: SHOP   |   |                      |  |
|  |  |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 386.02 g     |  |
|  |  |  |           | SCALE: 1:5   |   | REVISION: A          |  |
|  |  |  |           | SHEET 60   |   | A                    |  |

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

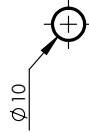
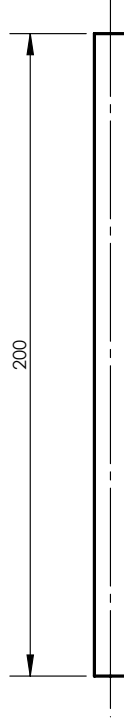
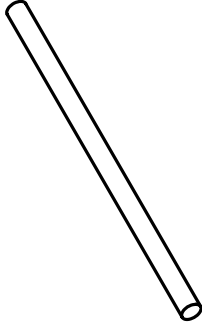



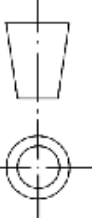
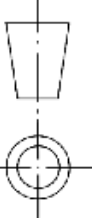
DETAIL A  
SCALE 2 : 1

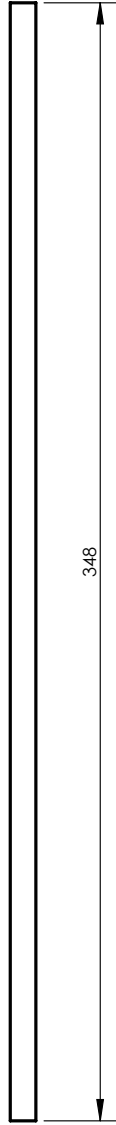
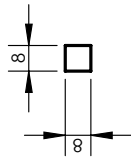
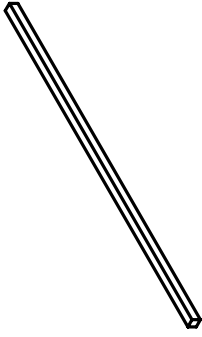



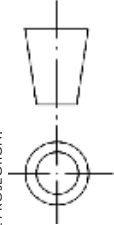
|   |                           |  |             |                           |
|---|---------------------------|--|-------------|---------------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: $\pm 0.1$ , ANGULAR: $\pm 0.05^\circ$<br>* DOES NOT APPLY TO HOLE SIZE |                           | <br><b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |             | DO NOT SCALE DRAWING      |
| DETAILS   |                           | SIGNATURE  | DATE        | FINISH: NONE              |
| DRAWN   | ENGR. SHAFER JAHAN RHAN   | S. J.K   | 16-FEB-2024 | FIRST ISSUED: 06-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 |                           |
| APP'VD  | DR. AKM SAIBUL ISLAM      | A. S.I   | 16-APR-2024 |                           |
| THIRD ANGLE PROJECTION:   |                           |    |             |                           |
| TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)   |                           | DRG. NAME: SEIVE SUPPORT FLAT BAR  |             |                           |
| DWG NO: RM2024A-S2.B-038  |                           | MANUFACTURING METHOD: MACHINING  |             |                           |
| MATERIAL: Plain Carbon Steel  |                           | WEIGHT: 86.73 g  |             |                           |
| SCALE: 1:2  |                           | SHEET 61   |             |                           |
| REVISION:   |                           | A  |             |                           |

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

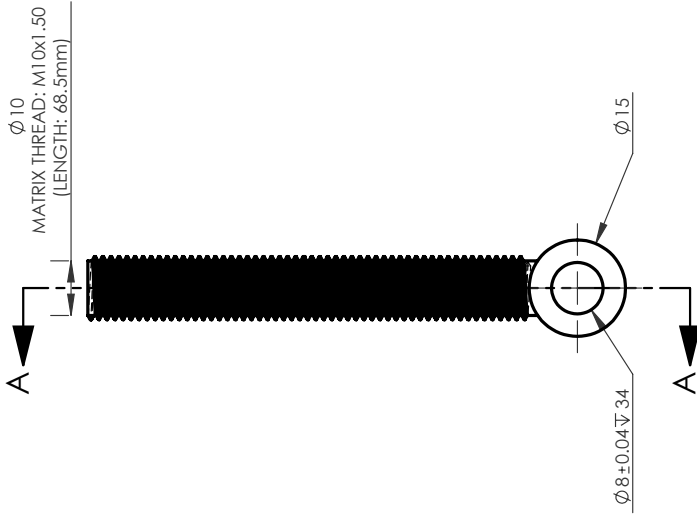



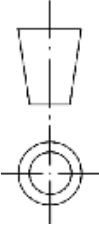
|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 16-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D   |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: CASING FRAME PART - 1              |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S2.B-039   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |  |           | MANUFACTURING METHOD: MACHINING  |   |                      |  |
|   |  |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 122.52 g     |  |
|   |  |  |           | SCALE: 1:2   |   | REVISION: A          |  |
|   |  |  |           | SHEET 62   |   | A                    |  |



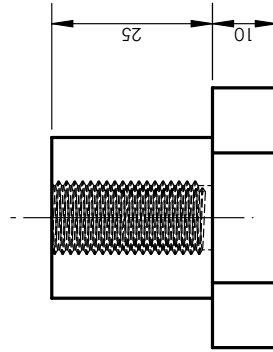
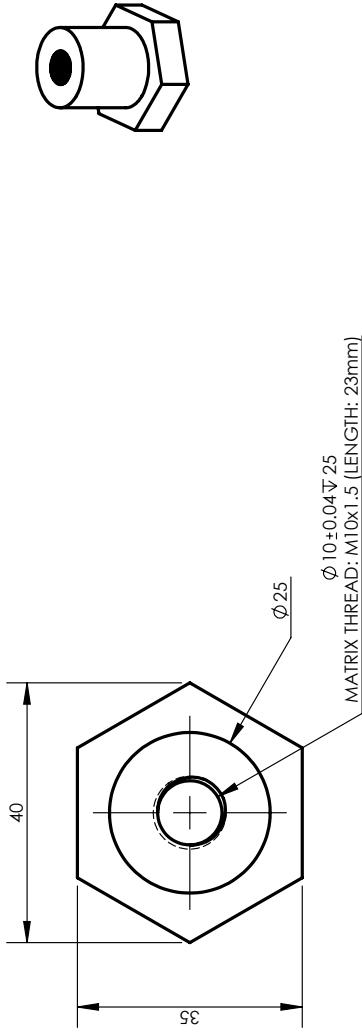
|  |  |  |           |  |  |                      |  |
|--|--|--|-----------|--|--|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)        |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 16-FEB-2024  | FINISH: NONE   |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                            |                      |  |
| APP'D  |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: BODY TOP COVER SUPPORT SQUARE BAR (8X8)MM |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           |  |  |                      |  |
|    |  |  |           | DWG NO: RM2024A-S2.B-040   |  |                      |  |
| MANUFACTURING METHOD: MACHINING  |  |  |           |  |  |                      |  |
| MATERIAL: Plain Carbon Steel   |  |  |           | WEIGHT: 173.72 g   |  |                      |  |
| SCALE: 1:5   |  |  |           | SHEET 63   |  | REVISION: A          |  |


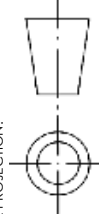
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

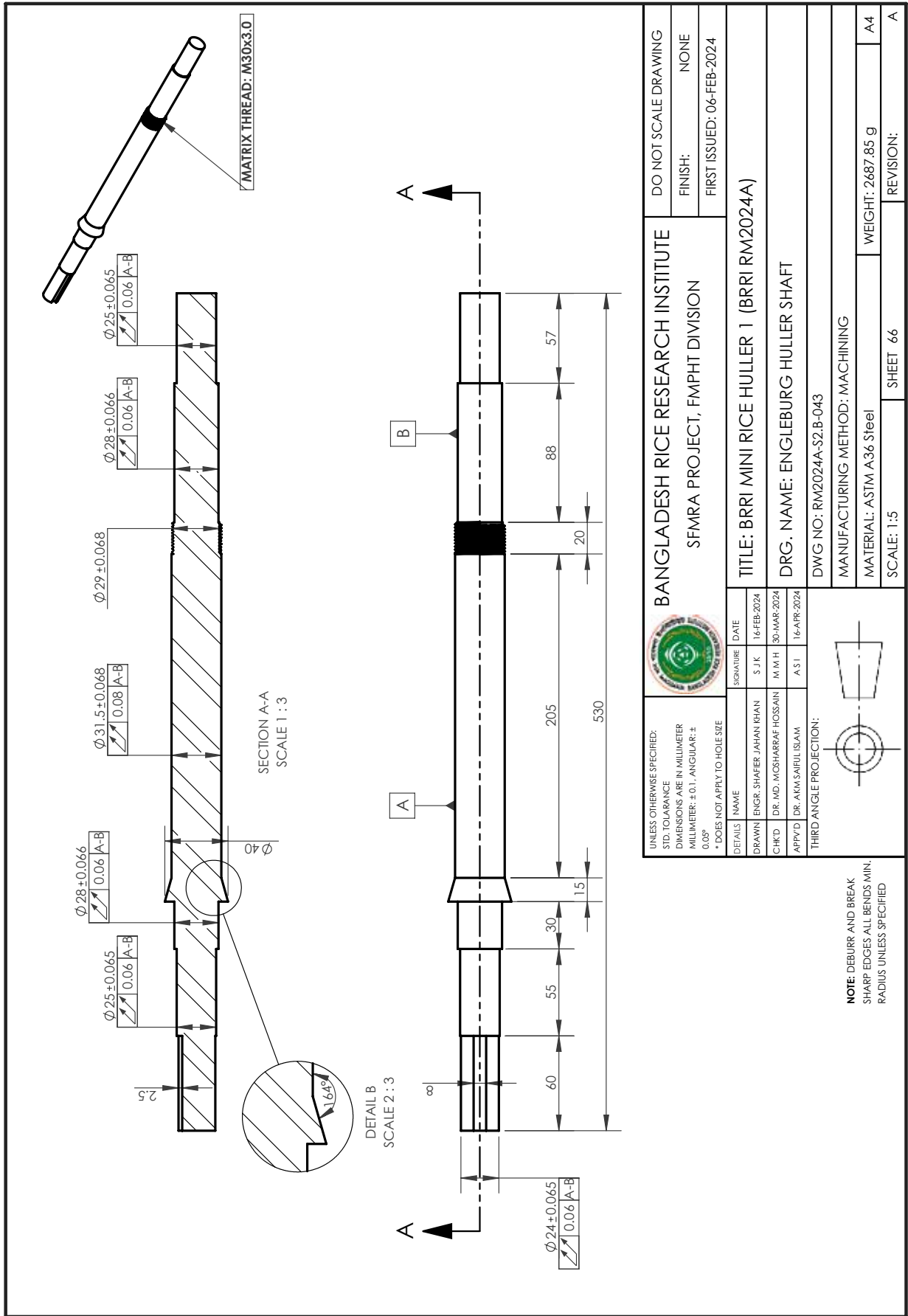


|  |                           |  |           |  |   |   |
|--|---------------------------|--|-----------|--|---|---|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: $\pm 0.1$ , ANGULAR: $\pm 0.05^\circ$<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING  |
| DETAILS  |                           | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |   |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | ENGR. SHAHEER JAHAN KHAN   | S. J.K    | 16-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |   |
| APP'D  | DR. AKM SAIFUL ISLAM      | M. M.H   | A.S.I     | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |   |
| THIRD ANGLE PROJECTION:  |                           |  |           | DRG. NAME: CASING LOCK PART - 1  |   | DWG NO: RM2024A-S2.B-041<br>MANUFACTURING METHOD: MACHINING & WELDING<br>MATERIAL: Plain Carbon Steel<br>SCALE: 1:2<br>WEIGHT: 68.50 g<br>REVISION: A |
|  |                           |  |           | SHEET 64   |   |   |

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



|   |  |  |  |                           |                      |
|---|--|--|--|---------------------------|----------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE                                   |  |  | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |                           | DO NOT SCALE DRAWING |
|   |  |  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |                           | FINISH: NONE         |
| DETAILS NAME SIGNATURE DATE<br>DRAWN ENGR. SHAFER JAHAN RHAN S.J.K 16-FEB-2024<br>CHK'D DR. MD. MOSHARRAF HOSSAIN M.M.H 30-MAR-2024<br>APPVD DR. AKM SAIFUL ISLAM A.S.I 16-APR-2024 |  | DRG. NAME: CASING LOCK PART - FEMALE<br>DWG NO: RM2024A-S2.B-042 |  | FIRST ISSUED: 06-FEB-2024 |                      |
| THIRD ANGLE PROJECTION:    |  | MANUFACTURING METHOD: MACHINING                                  |  | WEIGHT: 161.37 g          |                      |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  | MATERIAL: Plain Carbon Steel                                     |  | REVISION: A               |                      |
|   |  | SCALE: 1:1   |  | SHEET 65                  |                      |



BANGLADESH RICE RESEARCH INSTITUTE  
SFMRA PROJECT, FMPHT DIVISION

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: ENGLEBURG HULLER SHAFT

DWG NO: RM2024A-S2.B-043

MANUFACTURING METHOD: MACHINING

MATERIAL: ASTM A36 Steel

SCALE: 1:5

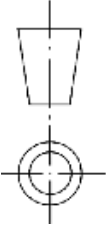
WEIGHT: 2687.85 g

REVISION: A

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

|                           |      |
|---------------------------|------|
| DO NOT SCALE DRAWING      |      |
| FINISH:                   | NONE |
| FIRST ISSUED: 06-FEB-2024 |      |

| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |           |             |
|---|---------------------------|-----------|-------------|
| DETAILS   | NAME                      | SIGNATURE | DATE        |
| DRAWN   | ENGR. SHAFER JAHAN RHAN   | S. J.K    | 16-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M.H    | 30-MAR-2024 |
| APP'D   | DR. AKM SAIFUL ISLAM      | A.S.I     | 16-APR-2024 |

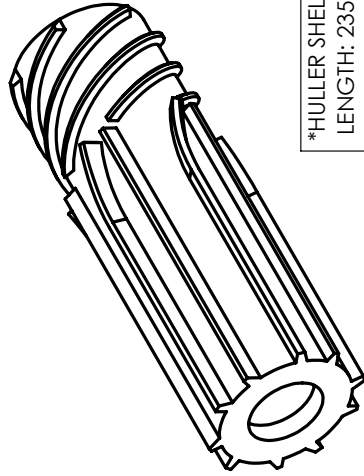


A


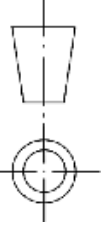
A4

SHEET 66

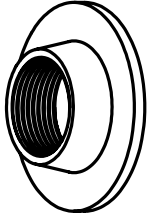
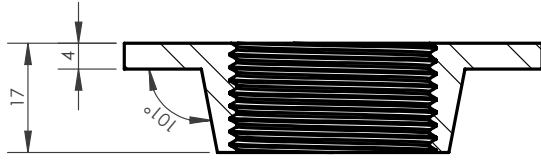
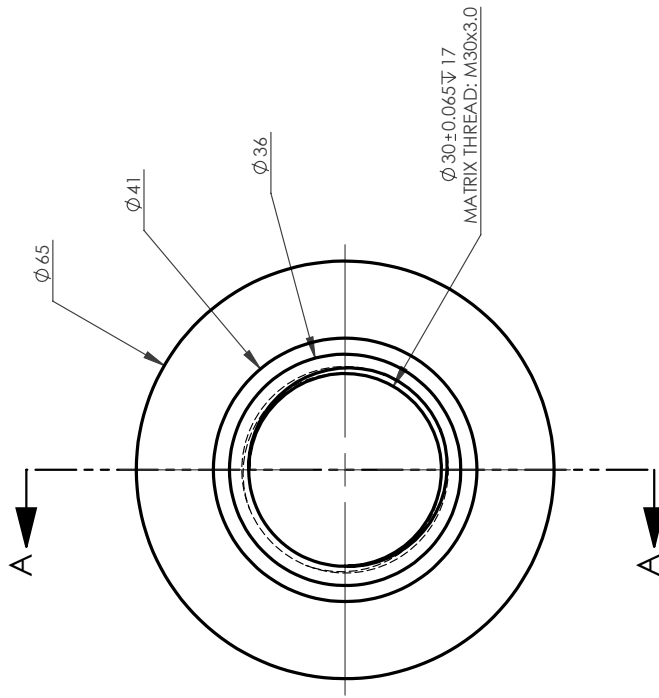
REVISION: A




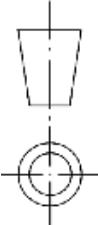
\*HULLER SHELL  
 LENGTH: 235mm  
 DIA: 83mm

|  |  |  |           |  |  |   |  |
|--|--|--|-----------|--|--|---|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING<br>FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | <b>TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)</b> |   |  |
| DRAWN  |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 16-FEB-2024  | DRG. NAME: HULLER SHELL<br>DWG NO: RM2024A-S2.B-044  |   |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FINDINGS: SHOP<br>WEIGHT: 3915.61 g<br>SCALE: 1:5    |   |  |
| APP'VD   |  | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | SHEET 67<br>REVISION: A                              |   |  |
| THIRD ANGLE PROJECTION:  |  |  |           |  |  |   |  |

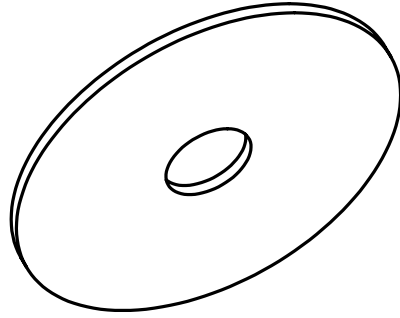
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED




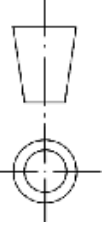
SECTION A-A

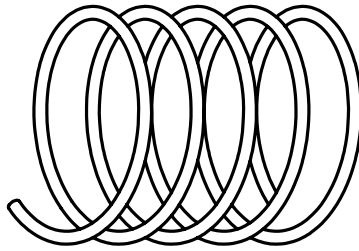
|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 16-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D   |  | DR. AKM SAIBUL ISLAM   | A. S.I    | 16-APR-2024  | DRG. NAME: THREADED LOCK                      |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S2.B-045   |   |                      |  |
| MANUFACTURING METHOD: MACHINING   |  |  |           |  |   |                      |  |
| MATERIAL: ASTM A36 Steel  |  |  |           | WEIGHT: 122.72 g   |   |                      |  |
| SCALE: 1:1  |  |  |           | SHEET 68   |   | REVISION: A          |  |

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


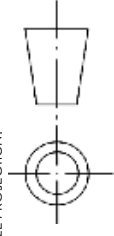


**WASHER**  
 OUTER DIA: 131mm  
 INNER DIA: 29mm  
 THICKNESS: 4mm  
 QUANTITY: 01

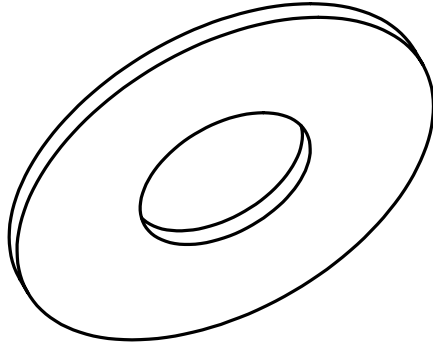
|  |  |           |  |   |   |
|--|--|-----------|--|---|---|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |           | BANGLADESH RICE RESEARCH INSTITUTE   |   | DO NOT SCALE DRAWING                      |
|  |  |           | SFMRA PROJECT, FMPHT DIVISION  |   | FINISH: NONE<br>FIRST ISSUED: 06-FEB-2024 |
| DETAILS  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |   |
| DRAWN  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 16-FEB-2024  | DRG. NAME: LONG WASHER                        |   |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S2.B-046                      |   |
| APP'VD   | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | MANUFACTURING METHOD: MACHINING               |   |
| THIRD ANGLE PROJECTION:  |  |           |  |   |   |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |           | MATERIAL: Plain Carbon Steel   |   |   |
|  |  |           | SCALE: 1:2   |   | WEIGHT: 399.91 g                          |
|  |  |           | SHEET 69   |   | REVISION: A                               |




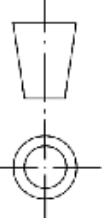
MAIN CIRCLE DIA: 35mm  
 PITCH: 10mm  
 REVOLUTION: 5  
 SPRING CIRCLE DIA: 2mm  
 FULL LENGTH: 50mm

|   |                           |  |           |  |   |                      |  |
|---|---------------------------|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |   | DO NOT SCALE DRAWING |  |
| DETAILS   |                           | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 16-FEB-2024  | DRG. NAME: POLISHER SHAFT - SPRING            |                      |  |
| APP'D   | DR. AKM SAIFUL ISLAM      | M. M. H.   | A. S. I.  | 16-APR-2024  | DWG NO: RM2024A-S2.B-047                      |                      |  |
| THIRD ANGLE PROJECTION:   |                           |  |           |  |   |                      |  |
| FINDINGS: SHOP  |                           |  |           | SCALE: 1:1   |   |                      |  |
| MATERIAL: Plain Carbon Steel  |                           |  |           | SHEET 70   |   | REVISION: A          |  |
| WEIGHT: 13.52 g   |                           |  |           | A4   |   | A                    |  |

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




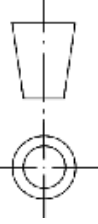
**WASHER**  
 OUTER DIA: 71mm  
 INNER DIA: 29mm  
 THICKNESS: 3mm  
 QUANTITY: 01

|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 16-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D  |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: WASHER                             |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S2.B-048   |   |                      |  |
| MANUFACTURING METHOD: MACHINING  |  |  |           |  |   |                      |  |
| MATERIAL: Plain Carbon Steel   |  |  |           | WEIGHT: 77.19 g  |   | A4                   |  |
| SCALE: 1:1   |  |  |           | SHEET 71   |   | REVISION: A          |  |

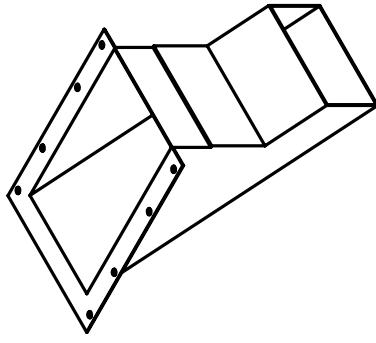
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED



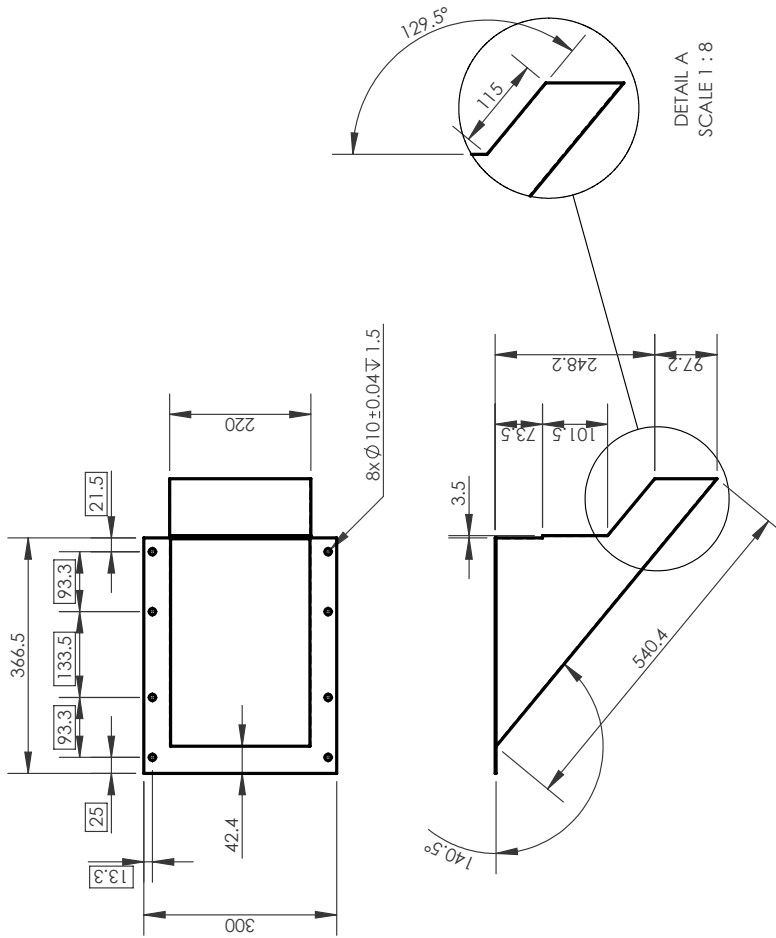
**UCP-205 BEARING HOUSING**  
**QUANTITY: 02**

|   |   |   |  |  |                      |
|---|---|---|--|--|----------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                             |   | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING |
|   | DETAILS NAME<br>DRAWN ENGR. SHAFER JAHAN KHAN<br>CHK'D DR. MD. MOSHARRAF HOSSAIN<br>APPVD DR. AKKI SAIBUL ISLAM | SIGNATURE<br>S.J.K.<br>M.M.H.<br>A.S.I. | DATE<br>16-FEB-2024<br>30-MAR-2024<br>16-APR-2024                          | TITLE: <b>BRI MINI RICE HULLER 1 (BRI RM2024A)</b><br>DRG. NAME: UCP - 205<br>DWG NO: RM2024A-S2.B-049 |                      |
| THIRD ANGLE PROJECTION:                                       |   |   | FINDINGS: SHOP<br>WEIGHT: 106.89 g<br>SCALE: 1:2                           |  |                      |
|   |   |   |  | SHEET 72   | REVISION: A          |


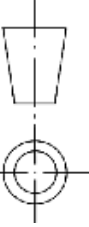
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

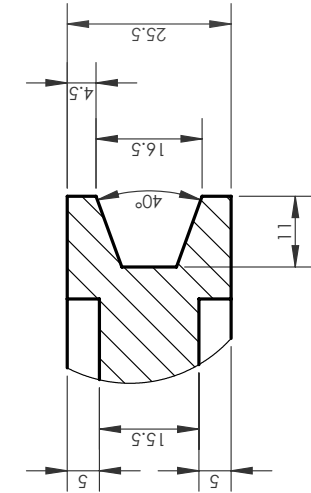
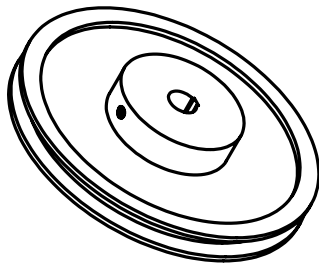


**N.B: MODEL IS SYMMETRY.**  
**\*SHEET THICKNESS: 1.5mm.**  
**\*BENDING RADIUS: 2mm.**

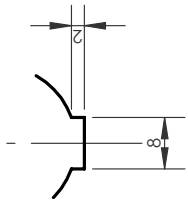


DETAIL A  
 SCALE 1 : 8

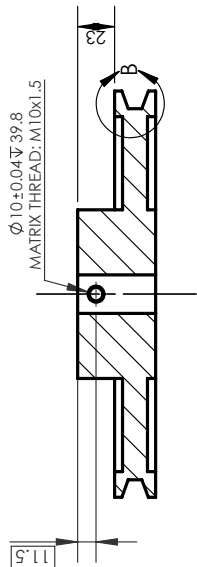
|  |                           |  |             |  |  |                           |  |
|--|---------------------------|--|-------------|--|--|---------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.08°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING      |  |
| DETAILS  | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |  |                           |  |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 16-FEB-2024 | DRG. NAME: HUSK OUT LINE   |  | FINISH: NONE              |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | DWG NO: RM2024A-S2.B-050   |  | FIRST ISSUED: 06-FEB-2024 |  |
| APP'D  | DR. AKM SAIBUL ISLAM      | A.S.I  | 16-APR-2024 | THIRD ANGLE PROJECTION:  |  |                           |  |
|    |                           |  |             | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                         |  |                           |  |
| <b>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</b>   |                           |  |             | MATERIAL: Plain Carbon Steel   |  | WEIGHT: 3810.42 g         |  |
|  |                           |  |             | SCALE: 1:10  |  | REVISION: A               |  |
|  |                           |  |             | SHEET 73   |  | A                         |  |



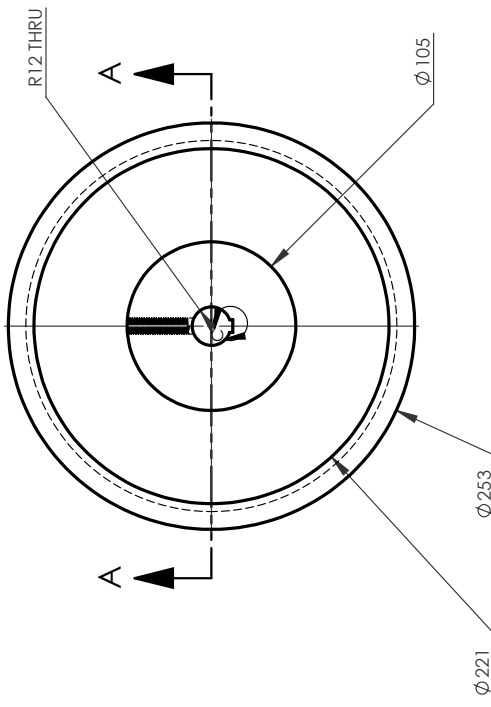
DETAIL B  
SCALE 1 : 1



DETAIL C  
SCALE 1 : 1



SECTION A-A  
SCALE 1 : 4



**BANGLADESH RICE RESEARCH INSTITUTE**  
SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING  
FINISH: NONE  
FIRST ISSUED: 06-FEB-2024

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: HULLER PULLEY

DWG NO: RM2024A-S2.B-051

MANUFACTURING METHOD: MACHINING

MATERIAL: Gray Cast Iron

SCALE: 1:5

WEIGHT: 7587.81 g

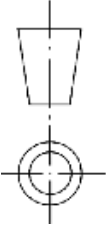
REVISION: A

A

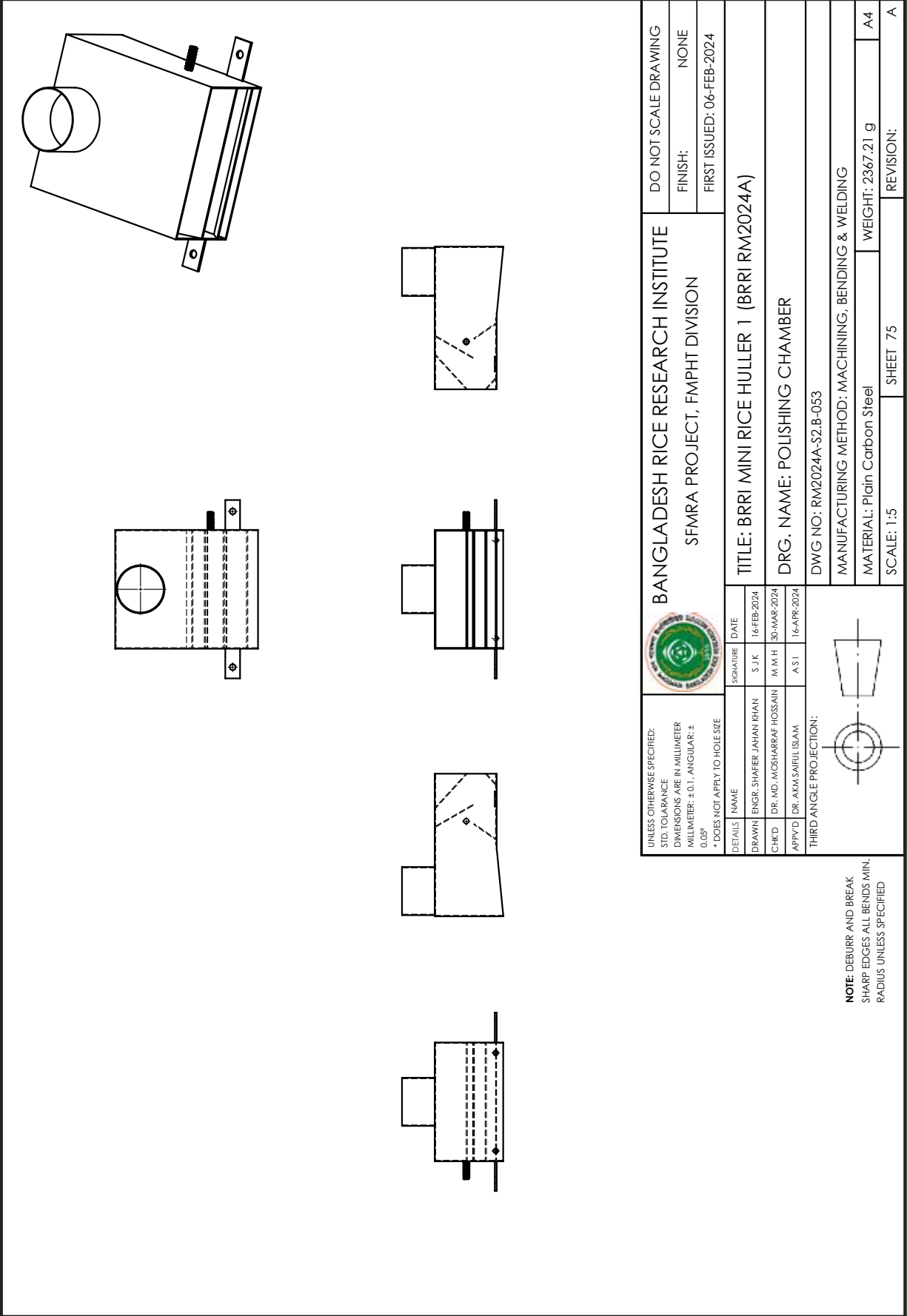
UNLESS OTHERWISE SPECIFIED:  
STD. TOLERANCE  
DIMENSIONS ARE IN MILLIMETER  
MILLIMETER: ±0.1, ANGULAR: ±  
0.05°  
\* DOES NOT APPLY TO HOLE SIZE


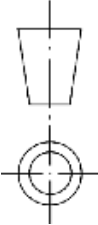
| DETAILS | NAME                      | SIGNATURE | DATE        |
|---------|---------------------------|-----------|-------------|
| DRAWN   | ENGR. SHAFER JAHAN RHAN   | S J K     | 16-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M M H     | 30-MAR-2024 |
| APP'VD  | DR. AKM SAIFUL ISLAM      | A S I     | 16-APR-2024 |

THIRD ANGLE PROJECTION:

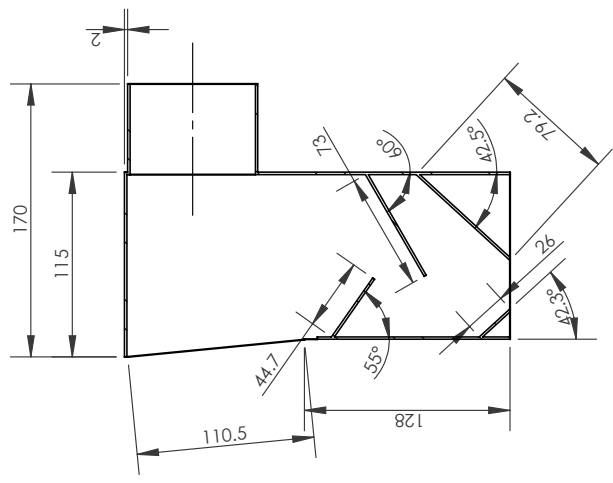
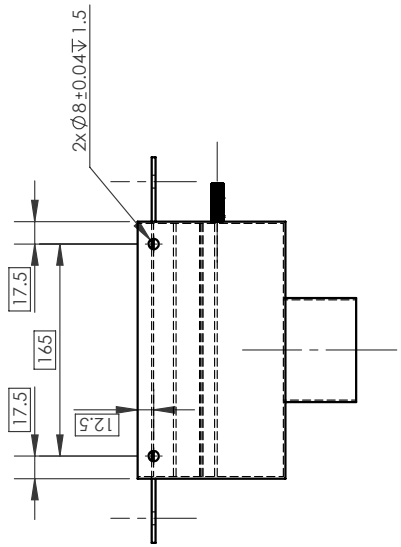


**NOTE:** DEBURR AND BREAK  
SHARP EDGES ALL BENDS MIN.  
RADIUS UNLESS SPECIFIED

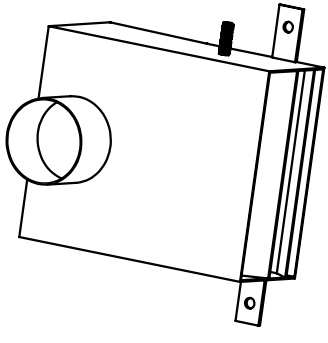


|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 16-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'VD  |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: POLISHING CHAMBER                  |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S2.B-053   |   |                      |  |
| MANUFACTURING METHOD: MACHINING, BENDING & WELDING  |  |  |           |  |   |                      |  |
| MATERIAL: Plain Carbon Steel  |  |  |           | WEIGHT: 2367.21 g  |   | A4                   |  |
| SCALE: 1:5  |  |  |           | SHEET 75   |   | REVISION: A          |  |

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



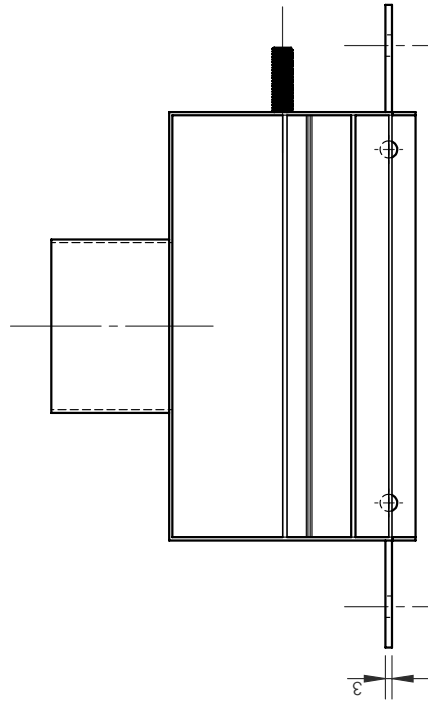
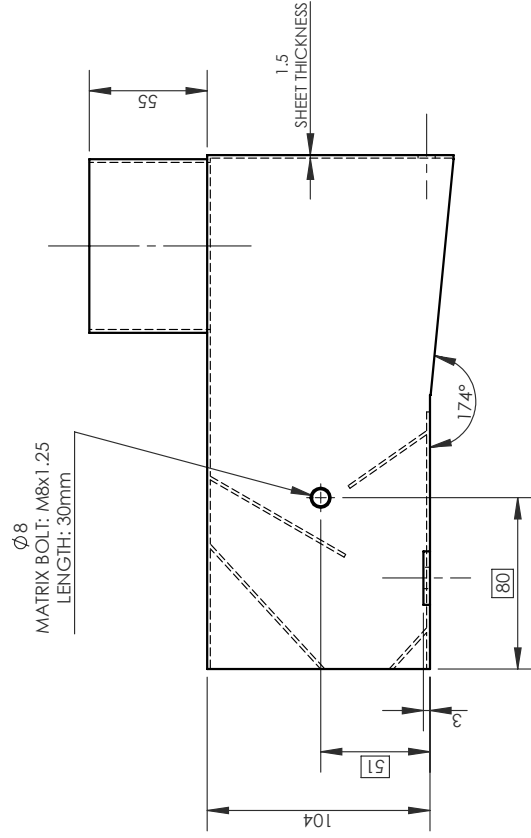
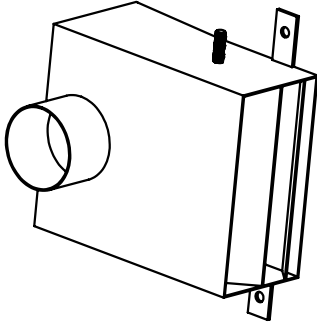
SECTION A-A  
SCALE 1 : 4



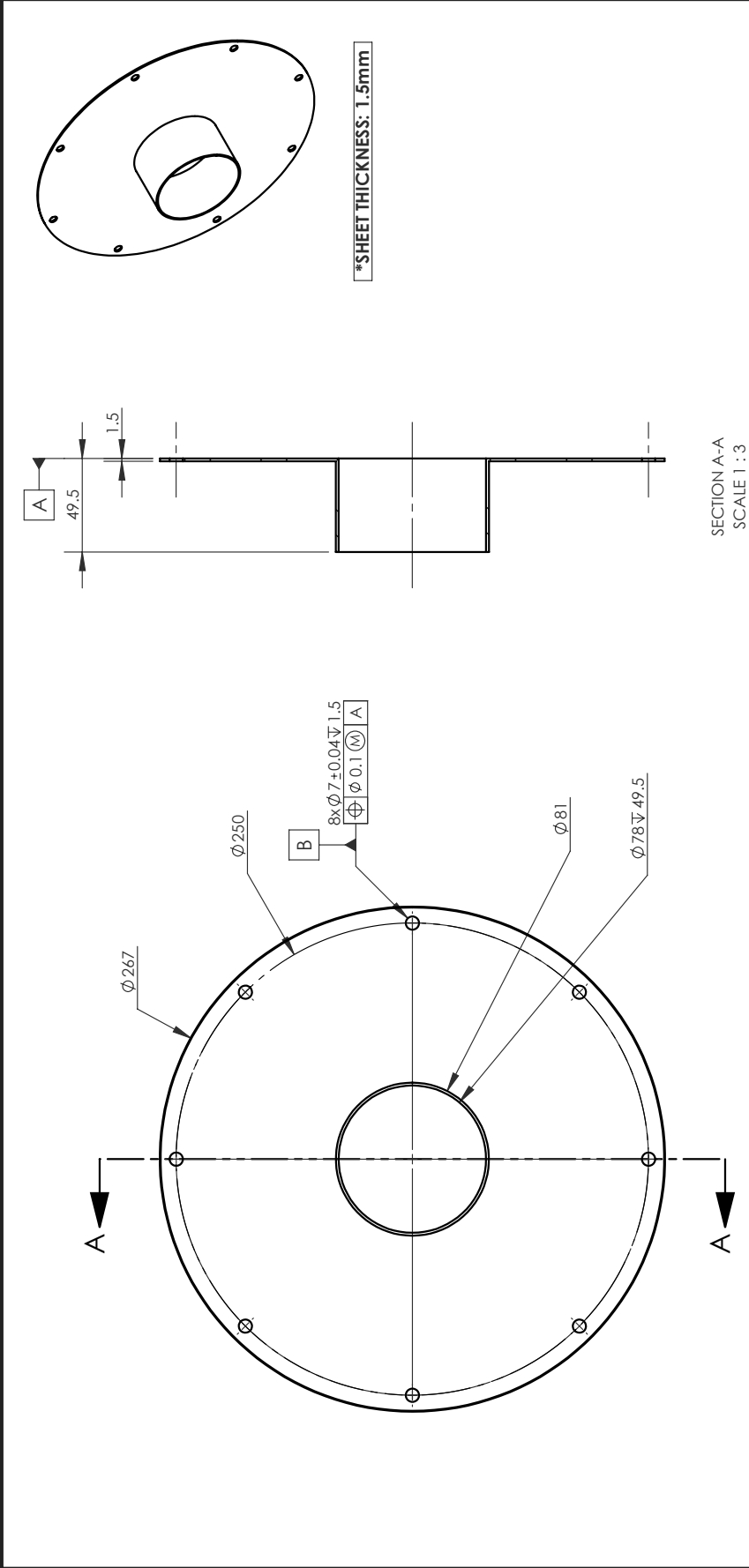
**N.B:** MODEL IS SYMMETRY.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY TOP VIEW AND SECTION FROM TOP VIEW  
 & REAR VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 1.5mm


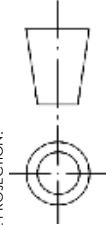
DWG NO: RM2024A-S2.B-053  
 SHEET NO: 76

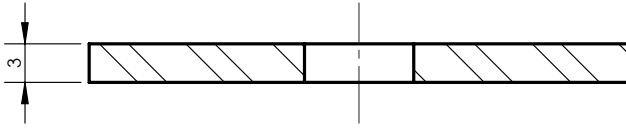
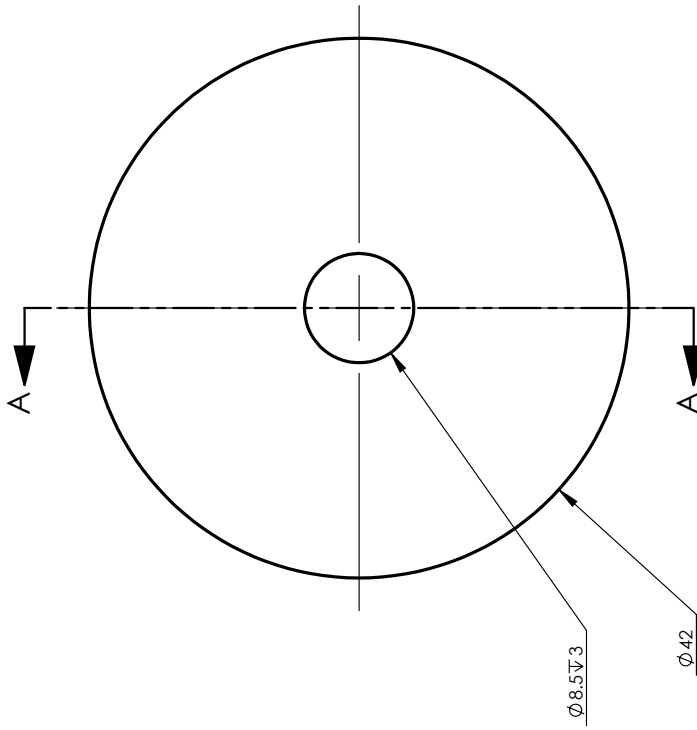
**N.B:** MODEL IS SYMMETRY.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY FRONT VIEW AND RIGHT VIEW  
 DIMENSIONS HAS SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 1.5mm



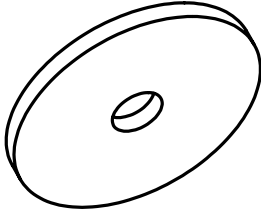
DWG NO: RM2024A-S2.B-053  
 SHEET 77


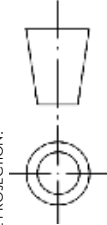


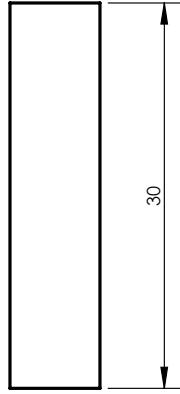
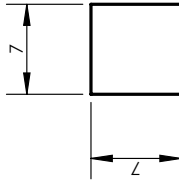
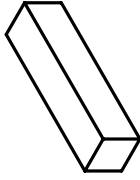
|  |                           |  |             |  |                           |                      |  |
|--|---------------------------|--|-------------|--|---------------------------|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |                           | DO NOT SCALE DRAWING |  |
| DETAILS  |                           | NAME   | SIGNATURE   | DATE   | FINISH: NONE              |                      |  |
| DRAWN  |                           | ENGR. SHAFER JAHAN KHAN  | S. J.K      | 19-FEB-2024  | FIRST ISSUED: 06-FEB-2024 |                      |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |                           |                      |  |
| APP'D  | DR. AKM SAIFUL ISLAM      | A.S.I  | 16-APR-2024 | DRG. NAME: BLOWER FLANGE   |                           |                      |  |
| THIRD ANGLE PROJECTION:  |                           |  |             | DWG NO: RM2024A-S3-054   |                           |                      |  |
|    |                           |  |             | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                         |                           |                      |  |
| <b>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</b>   |                           |  |             | MATERIAL: Plain Carbon Steel   |                           | WEIGHT: 735.84 g     |  |
|  |                           |  |             | SCALE: 1:5   |                           | REVISION: A          |  |
|  |                           |  |             | SHEET 78   |                           | A                    |  |


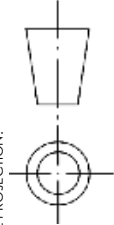


SECTION A-A

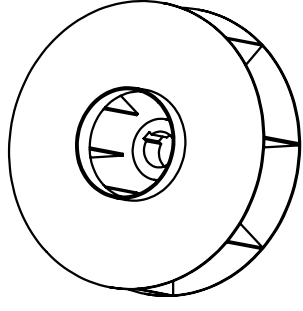
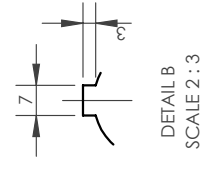
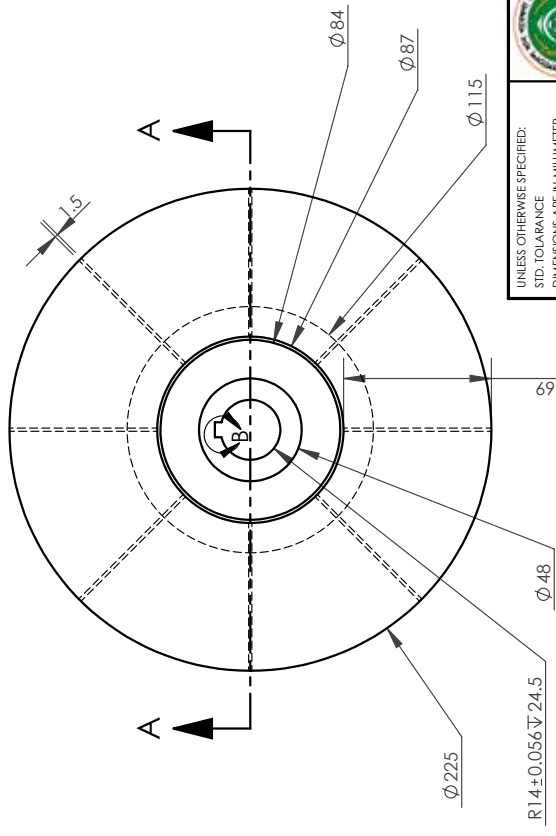
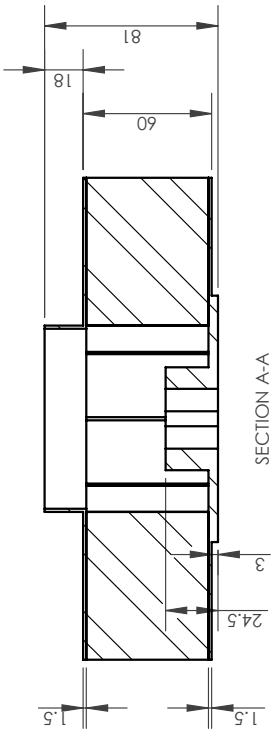


|  |  |  |           |  |   |                      |                 |
|--|--|--|-----------|--|---|----------------------|-----------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: $\pm 0.1$ , ANGULAR: $\pm 0.05^\circ$<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |                 |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |                      |                 |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 19-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |                 |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |                 |
| APP'VD   |  | DR. AKM SAIFUL ISLAM   | A. S.I    | 16-APR-2024  | DRG. NAME: BLOWER WASHER                      |                      |                 |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S3-055   |   |                      |                 |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  | MANUFACTURING METHOD: MACHINING  |           | MATERIAL: Plain Carbon Steel   |   |                      | WEIGHT: 31.09 g |
|  |  | SCALE: 2:1   |           | SHEET 79   |   | REVISION: A          |                 |


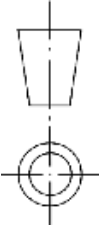


|   |  |  |           |  |   |                      |  |
|---|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 19-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D   |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  |   |                      |  |
| THIRD ANGLE PROJECTION:   |  |  |           | DRG. NAME: KEY   |   |                      |  |
|   |  |  |           | DWG NO: RM2024A-S3-055   |   |                      |  |
|   |  |  |           | MANUFACTURING METHOD: MACHINING  |   |                      |  |
|   |  |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 11.47 g      |  |
|   |  |  |           | SCALE: 2:1   |   | REVISION: A          |  |
|   |  |  |           | SHEET 80   |   | A                    |  |

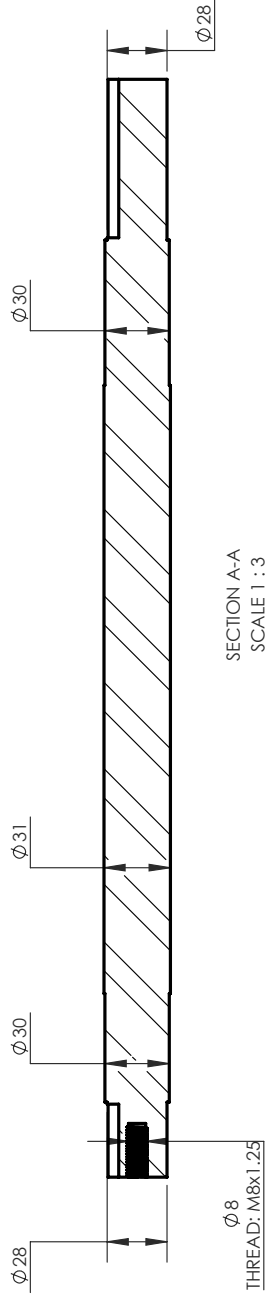
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED



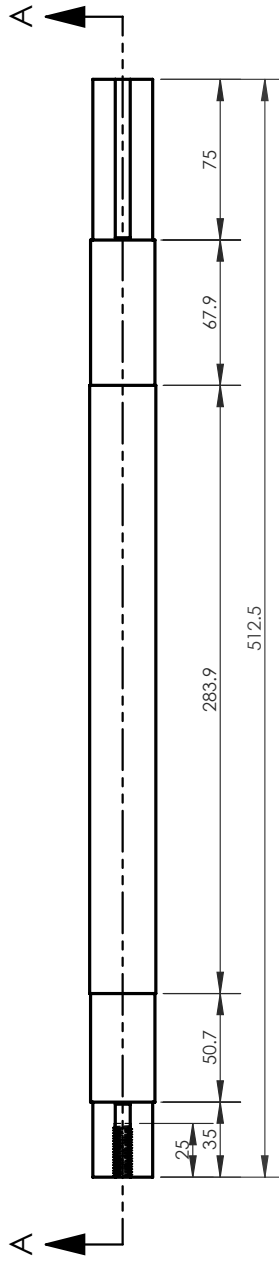
**N.B: TOTAL 8 BLADES.**

|  |                     |  |                     |                      |
|--|---------------------|--|---------------------|----------------------|
|    |                     | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |                     | DO NOT SCALE DRAWING |
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLESIZE |                     | SIGNATURE<br>S. J.K  | DATE<br>19-FEB-2024 | FINISH: NONE         |
| DETAILS<br>NAME<br>ENGR. SHAFER JAHAN RHAN   | DATE<br>30-MAR-2024 | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |                     |                      |
| CHK'D<br>DR. MD. MOSHARRAF HOSSAIN   | M.M.H               | DRG. NAME: BLOWER FAN  |                     |                      |
| APP'VD<br>DR. AKM SAIBUL ISLAM   | A.S.I               | DWG NO: RM2024A-S3-056   |                     |                      |
| THIRD ANGLE PROJECTION:                                      |                     | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                         |                     |                      |
| <b>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</b>   |                     | MATERIAL: Plain Carbon Steel   | WEIGHT: 1694.33 g   | REVISION: A          |
| SCALE: 1:5   |                     | SHEET 81   | A                   |                      |

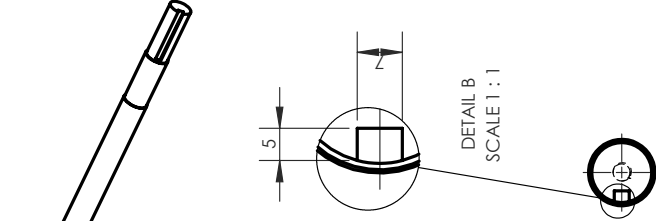
N.B: SAME DIMENSIONS FOR 2 KEYSLOT CUTOUTS.



SECTION A-A  
SCALE 1 : 3



DETAIL B  
SCALE 1 : 1



BANGLADESH RICE RESEARCH INSTITUTE  
SFMRA PROJECT, FMPHT DIVISION

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: BLOWER SHAFT

DWG NO: RM2024A-S3-057

MANUFACTURING METHOD: MACHINING

MATERIAL: Plain Carbon Steel

SCALE: 1:5

SHEET 82

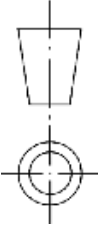
WEIGHT: 2811.10 g

REVISION: A

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   | ENGR. SHAHEER JAHAN KHAN  | S. J.K    | 19-FEB-2024 |
| CHK'D   | DR. MD. MOCHARRAF HOSSAIN | M. M.H    | 30-MAR-2024 |
| APP'D   | DR. AKM SAIFUL ISLAM      | A. S.I    | 16-APR-2024 |

THIRD ANGLE PROJECTION:

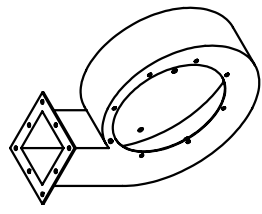
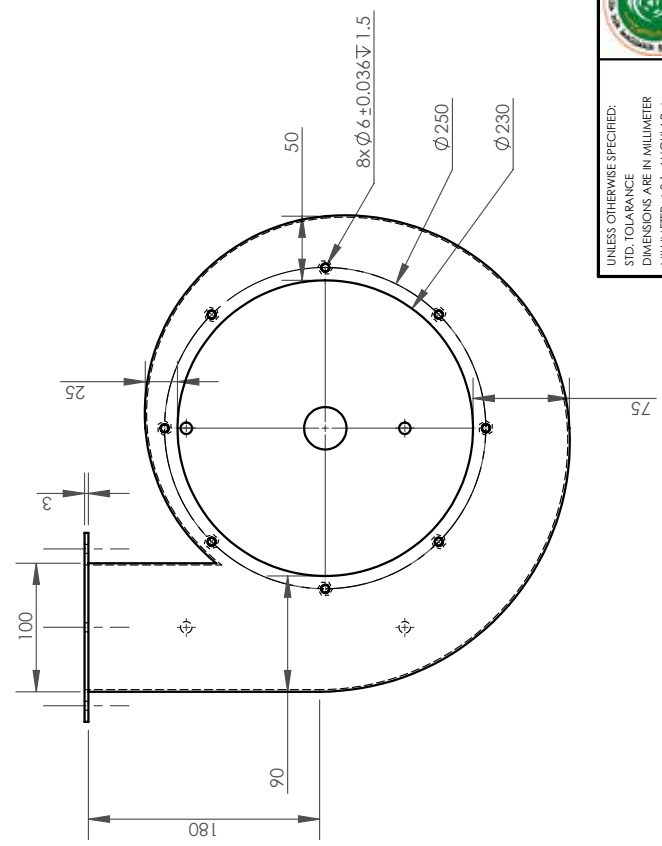
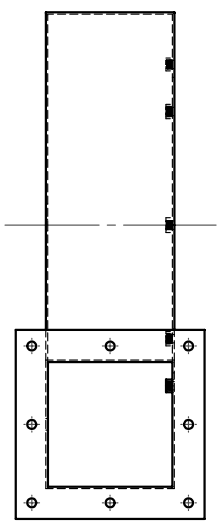



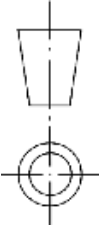
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

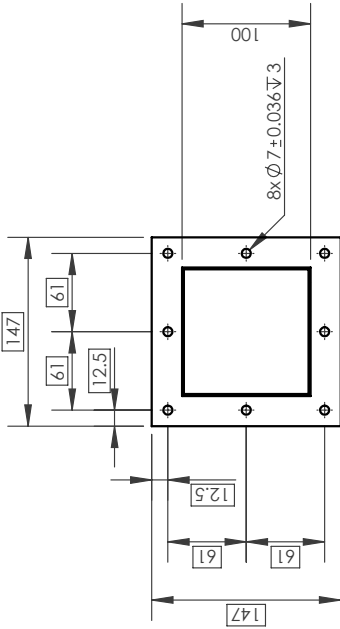
DO NOT SCALE DRAWING  
FINISH: NONE  
FIRST ISSUED: 06-FEB-2024

**N.B: THE NUMBER OF 8 HEX NUT (M6) WILL BE WELDED TO EACH HOLES. BOLT WILL IN AND OUT: M6x1.0.**

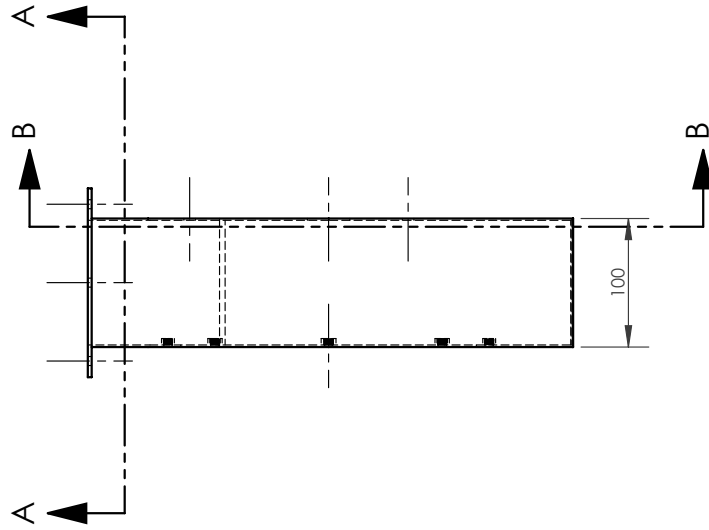
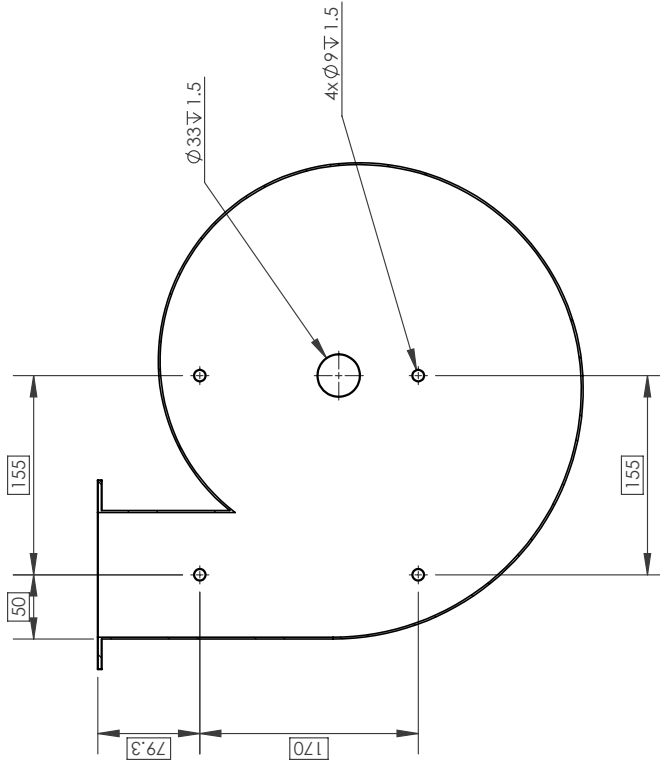
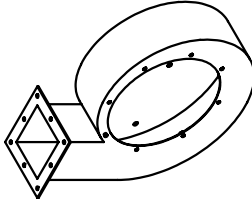
**N.B: MODEL IS SYMMETRY FOR HOLES.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY FRONT VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.  
 \*CHECK NEXT 2 PAGES FOR ALL VIEWS.  
 \*SHEET NO: 83 TO 84.  
 \*SHEET THICKNESS: 1.5mm**



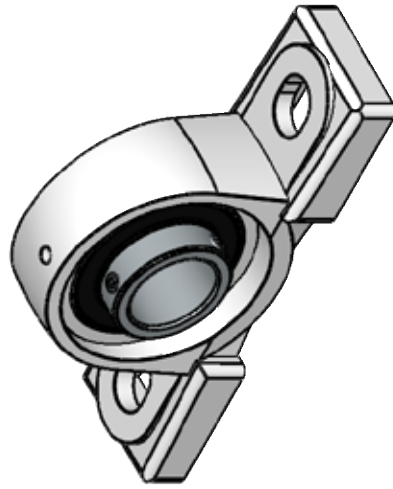
|  |                           |  |             |  |  |                      |  |
|--|---------------------------|--|-------------|--|--|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING |  |
| DETAILS  | NAME                      | SIGNATURE  | DATE        | FINISH: NONE   |  |                      |  |
| DRAWN  | ENGR. SHAFER JAHAN RHAN   | S. J.K   | 19-FEB-2024 | FIRST ISSUED: 06-FEB-2024  |  |                      |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |  |                      |  |
| APP'VD   | DR. AKM SAIBUL ISLAM      | A. S.I   | 16-APR-2024 | DRG. NAME: BLOWER  |  |                      |  |
| THIRD ANGLE PROJECTION:  |                           |  |             | DWG NO: RM2024A-S3-058   |  |                      |  |
|    |                           |  |             | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                         |  |                      |  |
| <b>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</b>   |                           |  |             | MATERIAL: Plain Carbon Steel   |  | WEIGHT: 3660.51 g    |  |
| SCALE: 1:5   |                           |  |             | SHEET 83   |  | REVISION: A          |  |




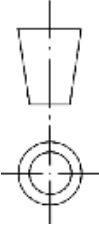
**N.B:** MODEL IS SYMMETRY FOR HOLES.  
**\*NOT A COMPLETE DRAWING.**  
**\*ONLY RIGHT VIEW AND SECTION FROM THE RIGHT VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.**  
**\*SHEET THICKNESS: 1.5mm**  
**\*SCALE 1:5**

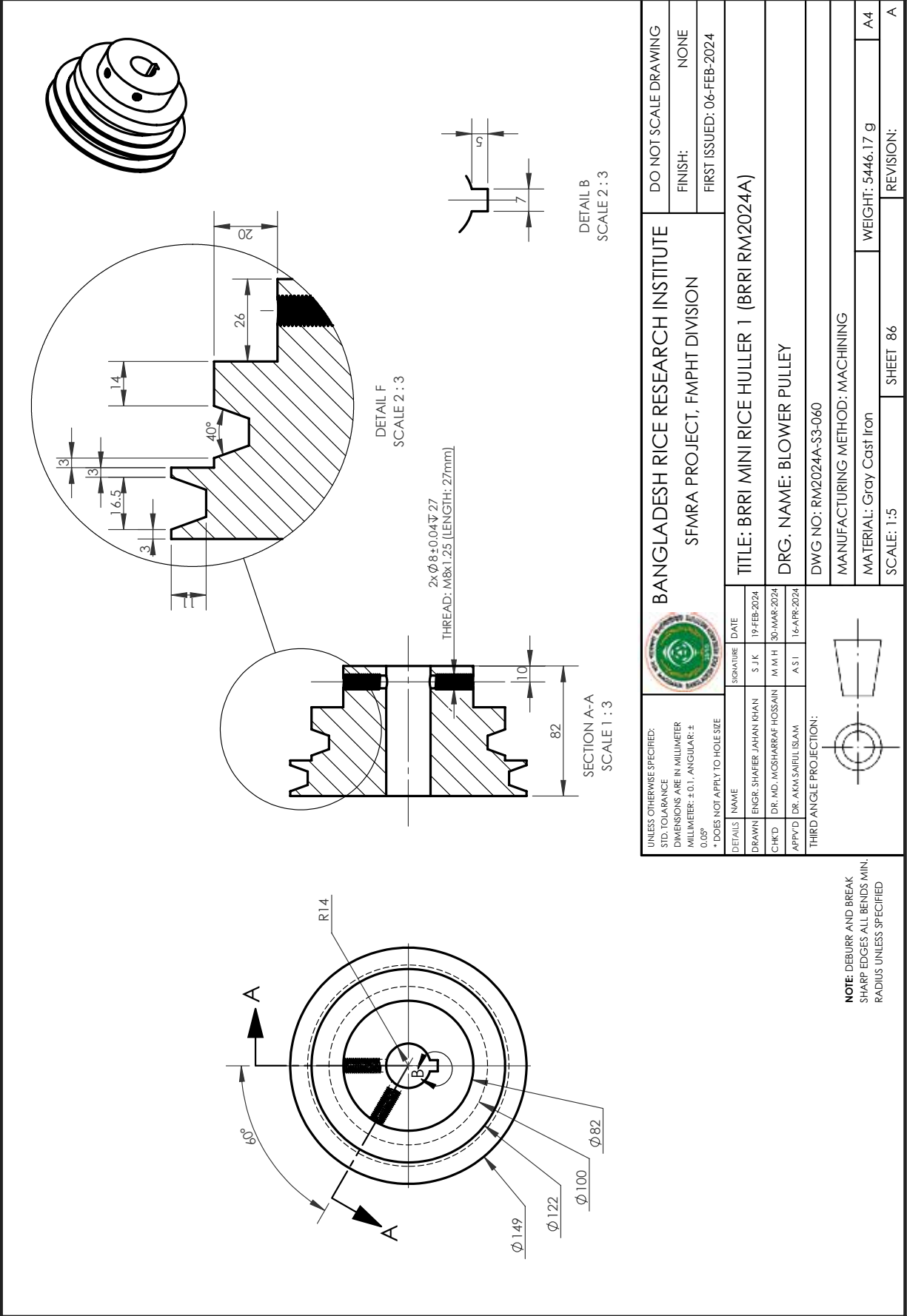



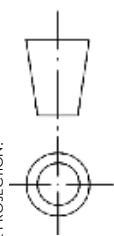
**DRAWING NO: RM2024A-S3-058**  
**SHEET: 84**



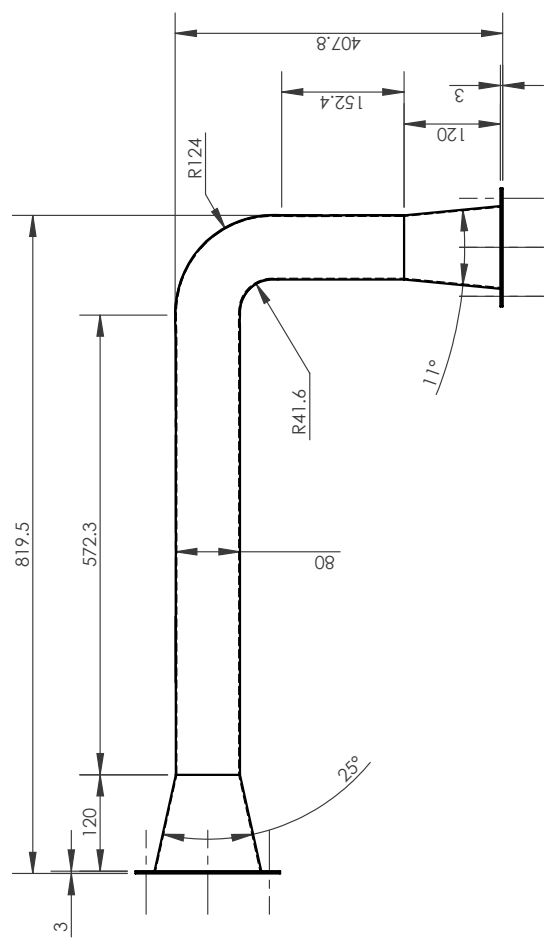
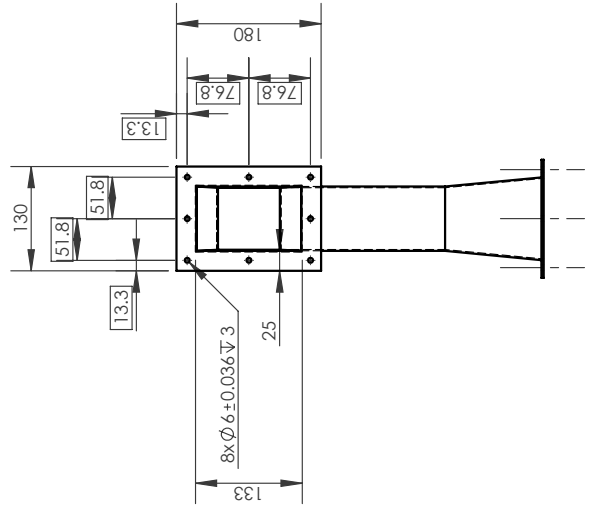
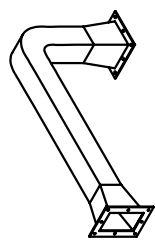
**BEARING HOUSING: UCP206**  
**QUANTITY: 02**


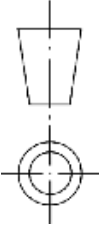
|   |  |  |           |  |   |                      |             |
|---|--|--|-----------|--|---|----------------------|-------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |             |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |             |
| DRAWN   |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 19-FEB-2024  | DRG. NAME: BLOWER BEARING HOUSING - UCP206    |                      |             |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S3-059                        |                      |             |
| APP'VD  |  | DR. AKKI SAIBUL ISLAM  | A.S.I     | 16-APR-2024  | FINDINGS: SHOP                                |                      |             |
| THIRD ANGLE PROJECTION:   |  |  |           | A4   |   |                      | REVISION: A |
| <b>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</b>  |  | SCALE: 1:2   |           | SHEET 85   |   | REVISION:            |             |



|  |                           |  |             |  |  |                           |  |
|--|---------------------------|--|-------------|--|--|---------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING      |  |
| DETAILS  | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |  | FINISH: NONE              |  |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 19-FEB-2024 | DRG. NAME: BLOWER PULLEY   |  | FIRST ISSUED: 06-FEB-2024 |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | DWG NO: RM2024A-S3-060   |  | REVISION: A               |  |
| APP'D  | DR. AKM SAIFUL ISLAM      | A.S.I  | 16-APR-2024 | MANUFACTURING METHOD: MACHINING  |  | WEIGHT: 5446.17 g         |  |
| THIRD ANGLE PROJECTION:  |                           |  |             | MATERIAL: Gray Cast Iron   |  | SCALE: 1:5                |  |
|    |                           |  |             | SHEET 86   |  | REVISION: A               |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |                           |  |             | SCALE: 1:5   |  | SHEET 86                  |  |

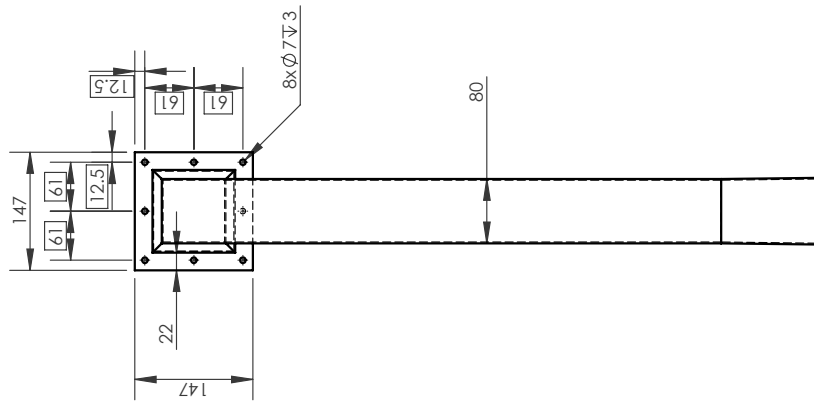
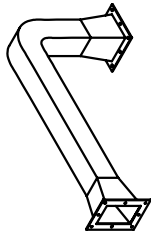
**N.B:** MODEL IS SYMMETRY FOR HOLES.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY **FRONT & RIGHT VIEW DIMENSIONS** HAS SHOWN IN THIS SHEET.  
 \*CHECK NEXT PAGES FOR ALL VIEWS.  
**SHEET NO: 88 TO 89.**  
 \*SHEET THICKNESS: 1.5mm



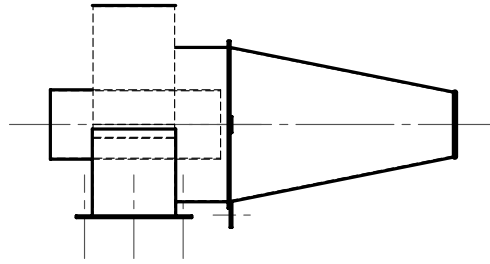
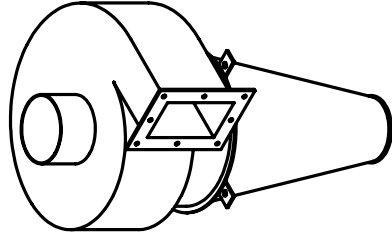
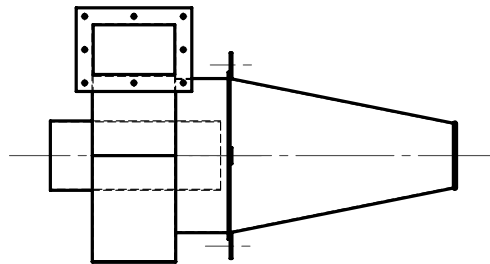
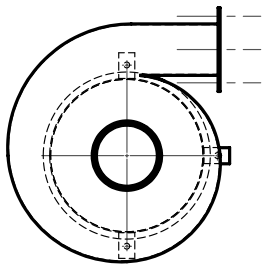
|  |                           |  |                          |                      |
|--|---------------------------|--|--------------------------|----------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLESIZE |                           | <br><b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |                          | DO NOT SCALE DRAWING |
| DETAILS  |                           | NAME   | SIGNATURE                | DATE                 |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | ENGR. SHAFER JAHAN KHAN  | S. J.K                   | 19-FEB-2024          |
| APP'VD   | DR. AKM SAIFUL ISLAM      | M. M.H   | A. S.I                   | 30-MAR-2024          |
| THIRD ANGLE PROJECTION:  |                           |    |                          |                      |
| TITLE: <b>BRRI MINI RICE HULLER 1 (BRRI RM2024A)</b>   |                           |  |                          |                      |
| DRG. NAME: <b>HUSK LINE BLOWER TO CYCLONE</b>  |                           |  |                          |                      |
| DWG NO: <b>RM2024A-S3-062</b>  |                           |  |                          |                      |
| MANUFACTURING METHOD: <b>MACHINING, BENDING &amp; WELDING</b>  |                           |  |                          |                      |
| MATERIAL: <b>Plain Carbon Steel</b>  |                           |  | WEIGHT: <b>4779.47 g</b> |                      |
| SCALE: <b>1:20</b>   |                           |  | REVISION: <b>A</b>       |                      |
|  |                           |  | SHEET <b>87</b>          |                      |


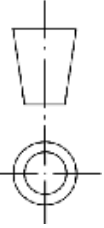
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

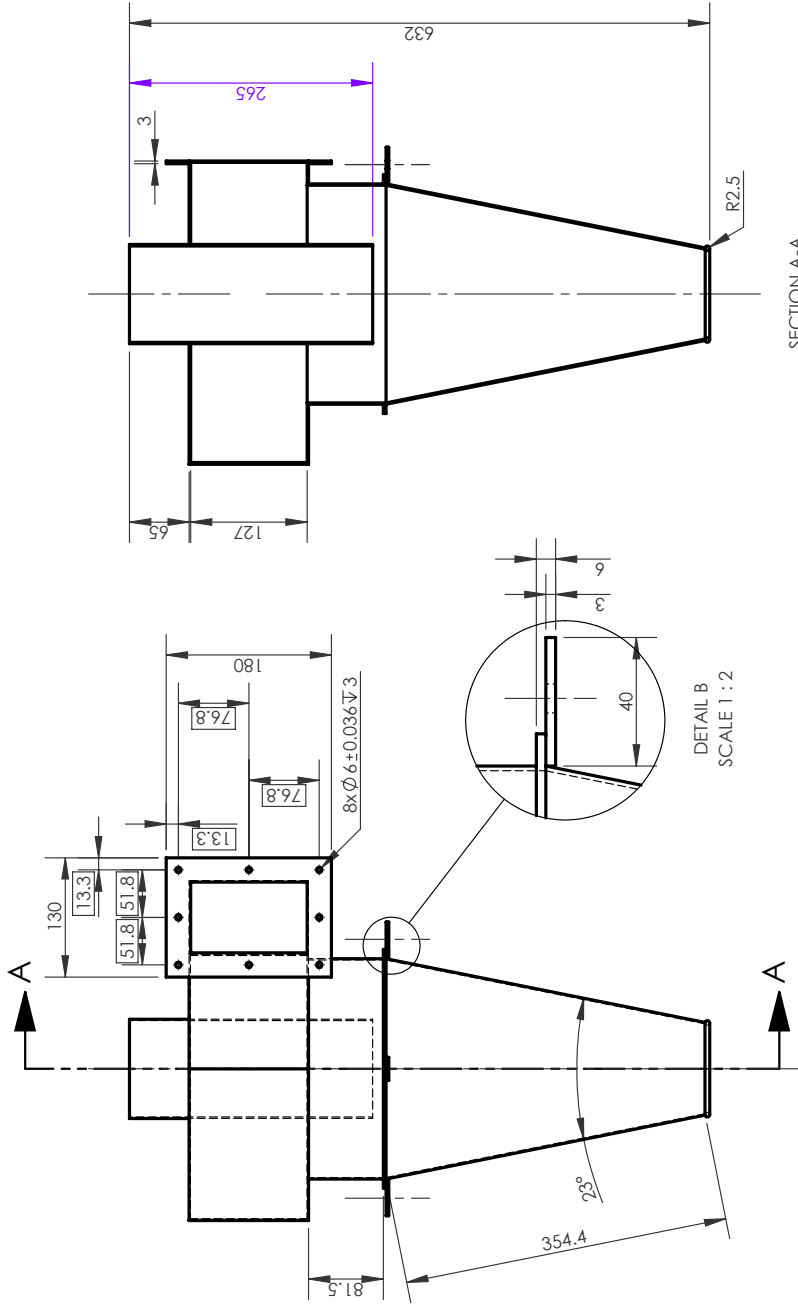
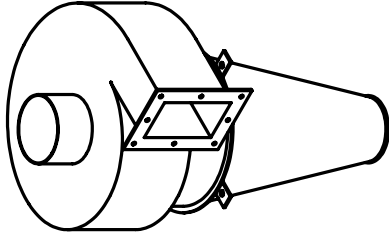
**N.B:** MODEL IS SYMMERY FOR HOLES.  
\*NOT A COMPLETE DRAWING.  
\*ONLY TOP VIEW DIMENSIONS  
HAS SHOWN IN THIS SHEET.  
\*CHECK NEXT 2 PAGES FOR ALL VIEWS.  
SHEET NO: 88 TO 89.  
\*SHEET THICKNESS: 1.5mm



DRAWING NO: RM2024A-S3-062  
SHEET: 88

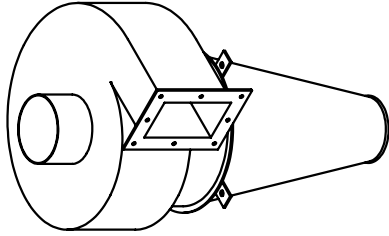


|   |                           |  |             |   |  |                           |  |
|---|---------------------------|--|-------------|---|--|---------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION  |  | DO NOT SCALE DRAWING      |  |
| DETAILS   | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)   |  |                           |  |
| DRAWN   | ENGR. SHAFER JAHAN RHAN   | S. J.K   | 19-FEB-2024 | FINISH: NONE  |  | FIRST ISSUED: 06-FEB-2024 |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | DRG. NAME: CYCLONE  |  |                           |  |
| APP'VD  | DR. AKM SAIFUL ISLAM      | A. S.I   | 16-APR-2024 | DWG NO: RM2024A-S3-063  |  |                           |  |
| THIRD ANGLE PROJECTION:   |                           |  |             |   |  |                           |  |
| <b>NOTE:</b> DEBURR AND BREAK<br>SHARP EDGES ALL BENDS MIN.<br>RADIUS UNLESS SPECIFIED  |                           |  |             | MANUFACTURING METHOD: MACHINING, BENDING & WELDING<br>MATERIAL: Plain Carbon Steel<br>WEIGHT: 8175.19 g<br>SCALE: 1:10<br>SHEET 89<br>REVISION: A |  |                           |  |

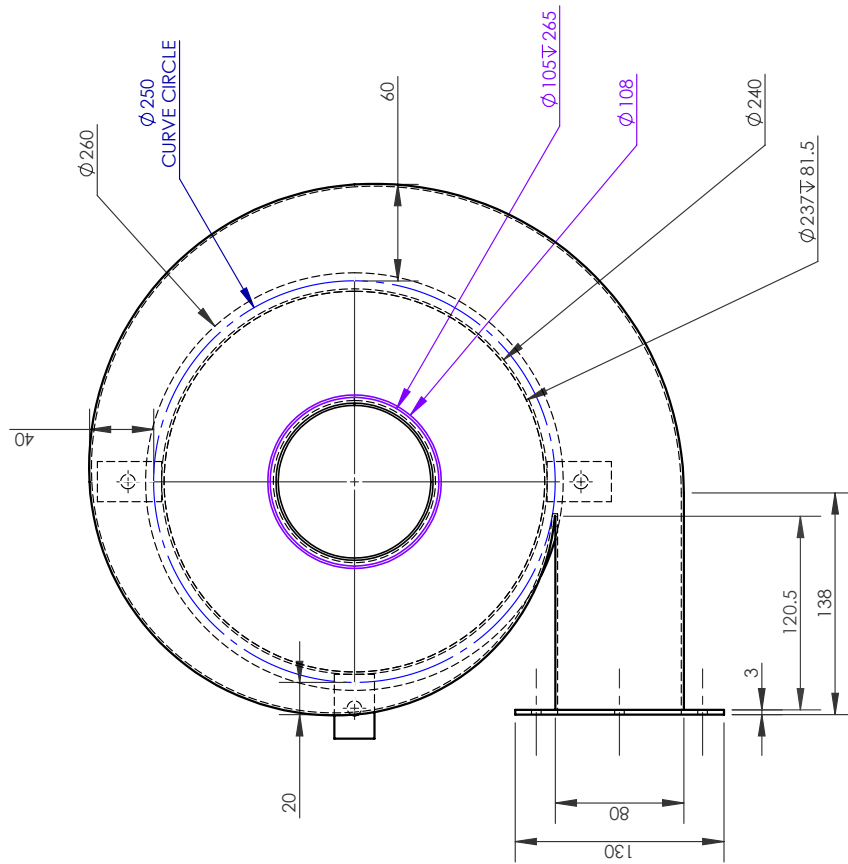


**N.B:** MODEL IS SYMMETRY FOR HOLES.  
 \*NOT A COMPLETE DRAWING.  
 \*ONLY FRONT VIEW DIMENSIONS HAS SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 1.5mm  
 \*SCALE 1:7

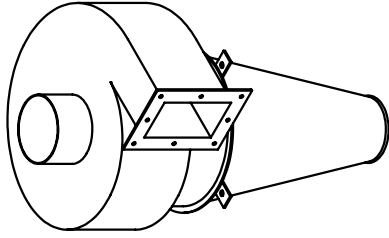
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 SHEET NO: 90



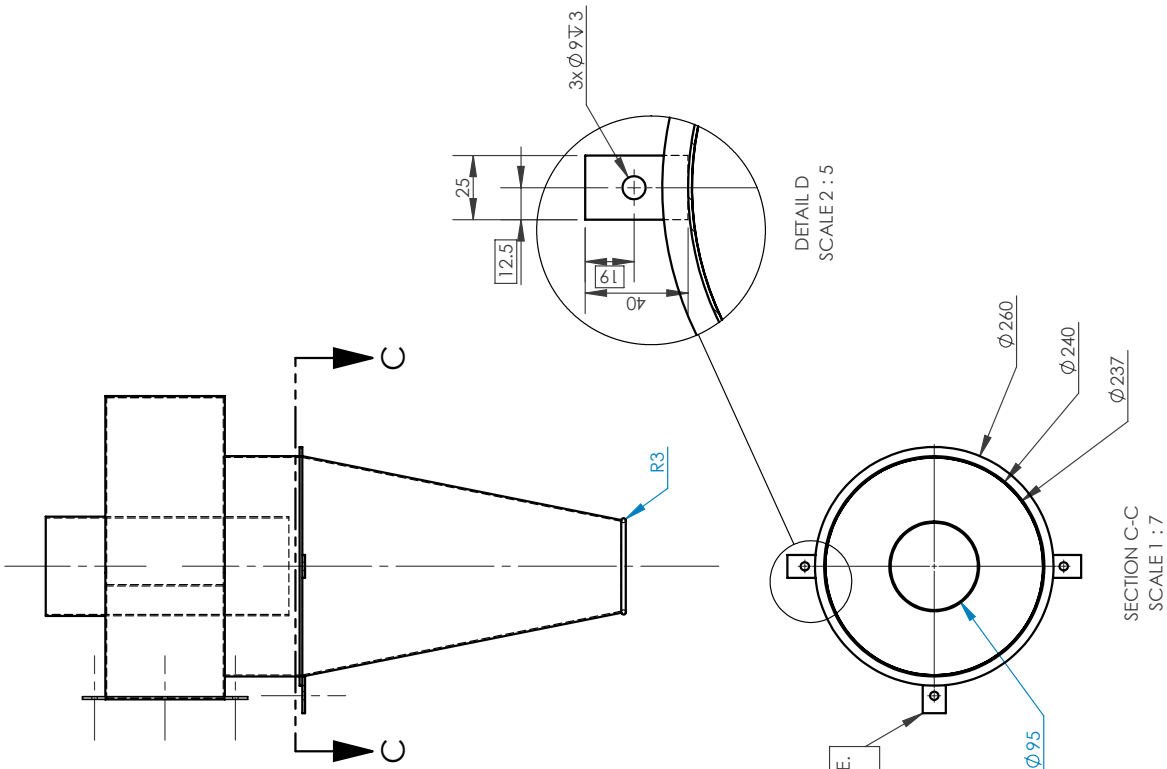
\*NOT A COMPLETE DRAWING.  
 \*ONLY **TOP VIEW DIMENSIONS** HAS  
 SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 1.5mm  
 \*SCALE 1:4



DRAWING NO: RM2024A-S3-063  
 SHEET: 91



\*NOT A COMPLETE DRAWING.  
 \*ONLY **RIGHT VIEW DIMENSIONS** HAS SHOWN IN THIS SHEET.  
 \*SHEET THICKNESS: 1.5mm  
 \*SCALE 1:7

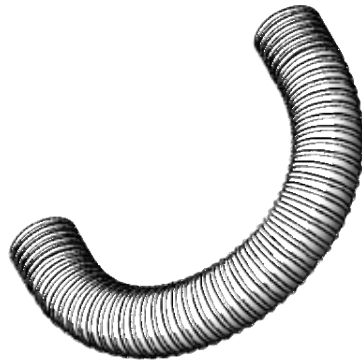


DETAIL D  
 SCALE 2 : 5


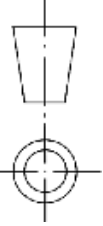
SECTION C-C  
 SCALE 1 : 7

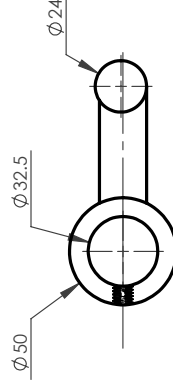
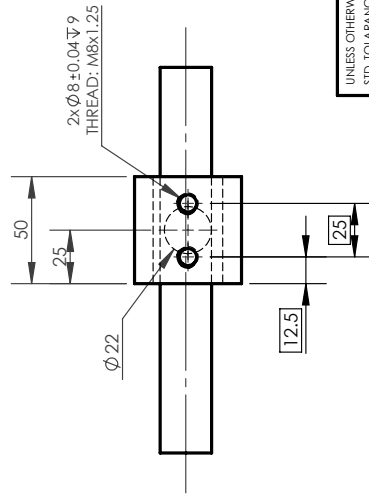
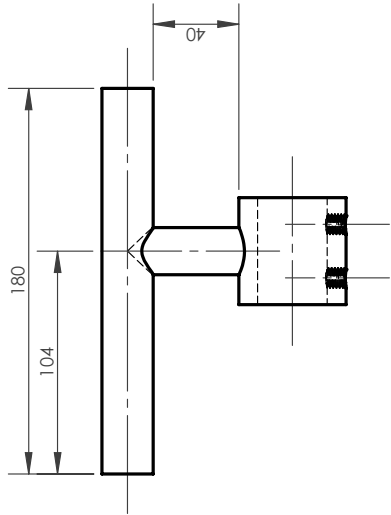
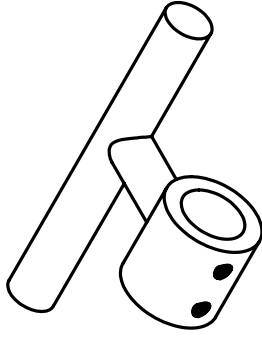
N.B: TOTAL 3 PART WILL BE WELDED HERE.  
 \*EQUAL DISTANCES.


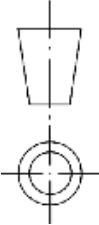
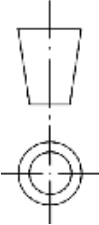
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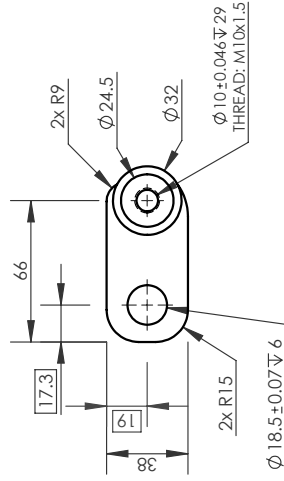
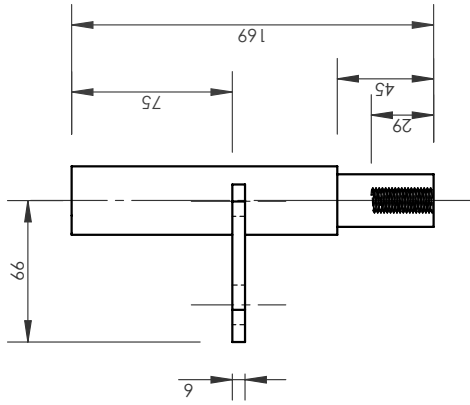
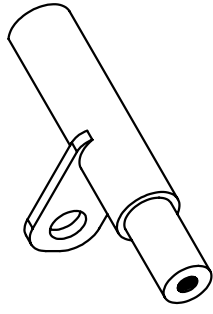


HOSE PIPE  
INNER DIA: 82mm

|   |  |  |           |  |   |                      |             |
|---|--|--|-----------|--|---|----------------------|-------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |             |
| DETAILS   |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |             |
| DRAWN   |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 19-FEB-2024  | FINISH: NONE                                  |                      |             |
| CHK'D   |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |             |
| APP'VD  |  | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: HOSE PIPE                          |                      |             |
| THIRD ANGLE PROJECTION:   |  |  |           | DWG NO: RM2024A-S3-064   |   |                      | REVISION: A |
| <b>NOTE:</b> DEBURR AND BREAK<br>SHARP EDGES ALL BENDS MIN.<br>RADIUS UNLESS SPECIFIED  |  | FINDINGS: SHOP   |           | MATERIAL: ABS.PC   |   | WEIGHT: 501.05 g     | A4          |
|   |  | SCALE: 1:10  |           | SHEET 93   |   | REVISION:            | A           |



|   |                           |  |           |  |   |                      |  |
|---|---------------------------|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMEER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS   |                           | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |                      |  |
| DRAWN   |                           | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 24-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| APP'D   | DR. AKM SAIFUL ISLAM      | A. S.I   | A. S.I    | 16-APR-2024  | DRG. NAME: TENSION SHAFT - 1                  |                      |  |
| THIRD ANGLE PROJECTION:   |                           |  |           | DWG NO: RM2024A-S4-065   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |                           |  |           | MANUFACTURING METHOD: MACHINING  |   |                      |  |
|   |                           |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 1194.15 g    |  |
|   |                           |  |           | SCALE: 1:2   |   | REVISION: A          |  |
|   |                           |  |           | SHEET 94   |   | A                    |  |



Ø 10 ± 0.046  $\Psi$  29  
 THREAD: M10x1.5

Ø 18.5 ± 0.07  $\Psi$  6



**BANGLADESH RICE RESEARCH INSTITUTE**  
 SFMRA PROJECT, FMPHT DIVISION

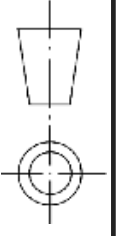
DO NOT SCALE DRAWING  
 FINISH: NONE  
 FIRST ISSUED: 06-FEB-2024

|   |                  |
|---|------------------|
| TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                  |
| DRG. NAME: TENSION SHAFT - PULLEY HOLDER      |                  |
| DWG NO: RM2024A-S4-066                        |                  |
| MANUFACTURING METHOD: MACHINING               |                  |
| MATERIAL: Plain Carbon Steel                  | WEIGHT: 998.93 g |
| SCALE: 1:2                                    | REVISION: A      |
| SHEET 95                                      | REVISION: A      |

| DETAILS | NAME                      | SIGNATURE | DATE        |
|---------|---------------------------|-----------|-------------|
| DRAWN   | ENGR. SHAFER JAHAN RHAN   | S J K     | 24-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M M H     | 30-MAR-2024 |
| APP'VD  | DR. AKM SAIBUL ISLAM      | A S I     | 16-APR-2024 |


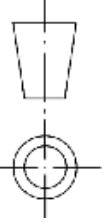
UNLESS OTHERWISE SPECIFIED:  
 STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER  
 MILLIMETER: ± 0.1, ANGULAR: ± 0.05°  
 \* DOES NOT APPLY TO HOLE SIZE

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

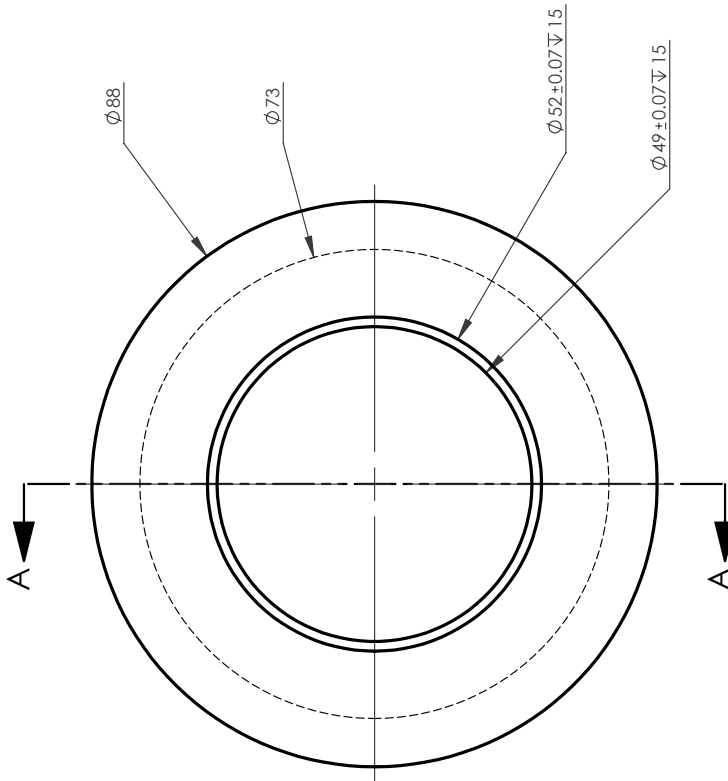
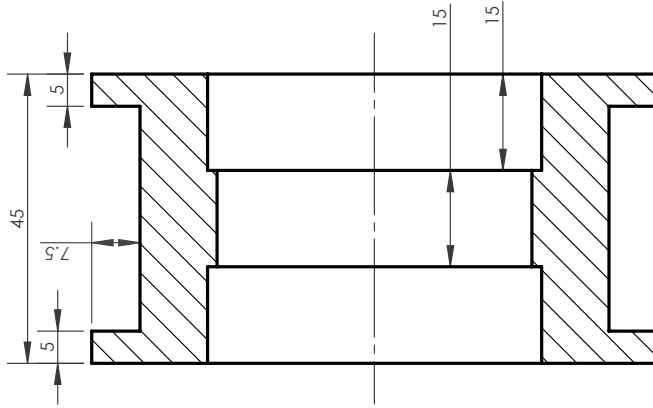
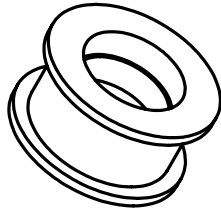





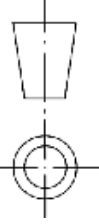
BEARING: 6205 RS  
 QUANTITY: 02 FOR TENSION

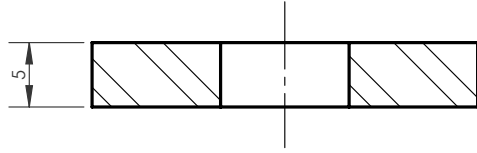
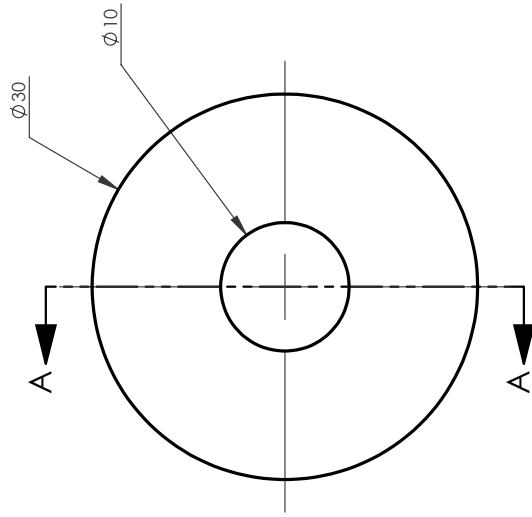
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE   |  |           | BANGLADESH RICE RESEARCH INSTITUTE           |                | DO NOT SCALE DRAWING |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
|--|--|-----------|--|----------------|----------------------|------|-------|-------------------------|-------|-------------|-------|---------------------------|-------|-------------|-------|----------------------|-------|-------------|---|--|--|
|  |  |           | 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>ENGR. SHAFER JAHAN KHAN</td> <td>S J K</td> <td>24-FEB-2024</td> </tr> <tr> <td>CHK'D</td> <td>DR. MD. MOSHARRAF HOSSAIN</td> <td>M M H</td> <td>30-MAR-2024</td> </tr> <tr> <td>APP'D</td> <td>DR. AKM SAIBUL ISLAM</td> <td>A S I</td> <td>16-APR-2024</td> </tr> </tbody> </table> |  |           | DETAILS                                      | NAME           | SIGNATURE            | DATE | DRAWN | ENGR. SHAFER JAHAN KHAN | S J K | 24-FEB-2024 | CHK'D | DR. MD. MOSHARRAF HOSSAIN | M M H | 30-MAR-2024 | APP'D | DR. AKM SAIBUL ISLAM | A S I | 16-APR-2024 | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |  |  |
| DETAILS  | NAME   | SIGNATURE | DATE   |                |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
| DRAWN  | ENGR. SHAFER JAHAN KHAN  | S J K     | 24-FEB-2024                                  |                |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN  | M M H     | 30-MAR-2024                                  |                |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
| APP'D  | DR. AKM SAIBUL ISLAM   | A S I     | 16-APR-2024                                  |                |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
| THIRD ANGLE PROJECTION:  |  |           | DRG. NAME: 6205 RS BEARING - USED IN TENSION |                |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
|    |  |           | DWG NO: RM2024A-S4-067                       |                |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
| FINDINGS: SHOP   |  |           |  |                |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
| MATERIAL: Material <not specified>   |  |           |  | WEIGHT: 0.02 g |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
| SCALE: 1:1   |  |           |  | REVISION: A    |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |
| SHEET 96   |  |           |  | A              |                      |      |       |                         |       |             |       |                           |       |             |       |                      |       |             |   |  |  |

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

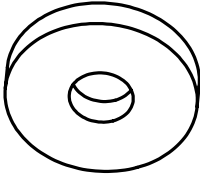



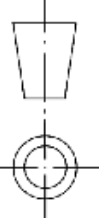
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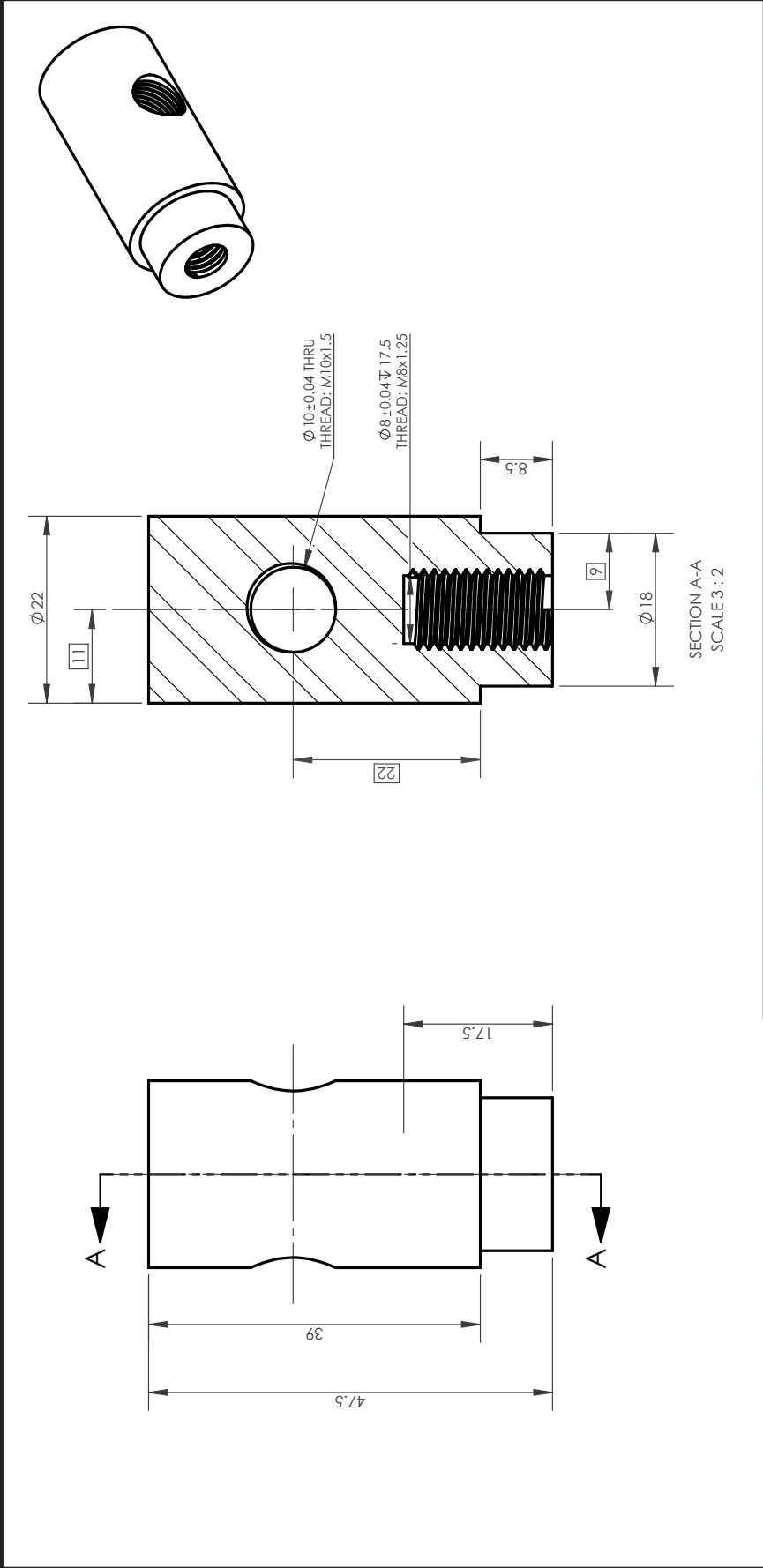
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|   |                                      | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION  |  | DO NOT SCALE DRAWING                          |
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                                      | TITLE: <b>BRR I MINI RICE HULLER 1 (BRR I RM2024A)</b><br>DRG. NAME: <b>TENSION PULLEY</b><br>DWG NO: <b>RM2024A-S4-068</b><br>MANUFACTURING METHOD: <b>MACHINING</b><br>MATERIAL: <b>Gray Cast Iron</b><br>SCALE: <b>1:2</b> | FINISH: <b>NONE</b><br>FIRST ISSUED: <b>06-FEB-2024</b>                              | WEIGHT: <b>830.25 g</b><br>REVISION: <b>A</b> |
| DETAILS NAME<br>DRAWN ENGR. SHAFER JAHAN KHAN<br>CHK'D DR. MD. MOSHARRAF HOSSAIN<br>APP'VD DR. AKM SAIBUL ISLAM   | SIGNATURE<br>S J K<br>M M H<br>A S I | DATE<br>24-FEB-2024<br>30-MAR-2024<br>16-APR-2024   |  |   |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |                                      |   |  |   |


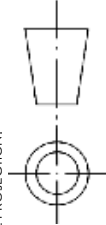
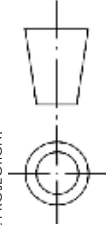


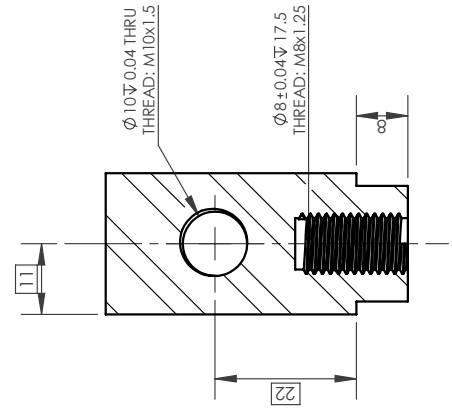
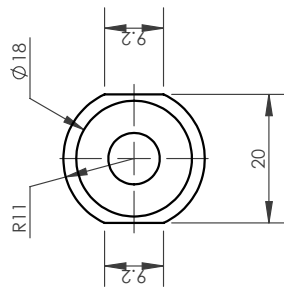
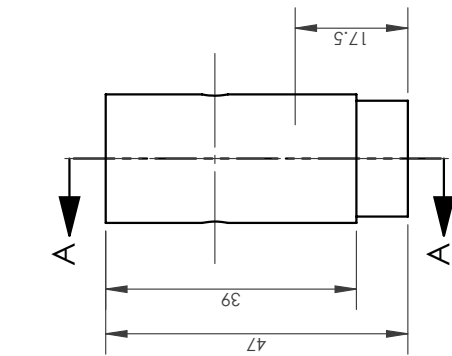
SECTION A-A



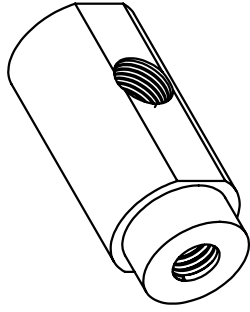
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| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: $\pm 0.1$ , ANGULAR: $\pm 0.05^\circ$<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |   | DO NOT SCALE DRAWING |  |
| DETAILS   |                           | NAME   | SIGNATURE   | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M. H.   | [Signature] | 30-MAR-2024  | DRG. NAME: TENSION SHAFT - WASHER             |                      |  |
| APP'D   | DR. AKM SAIFUL ISLAM      | A. S. I.   | [Signature] | 16-APR-2024  | DWG NO: RM2024A-S4-069                        |                      |  |
| THIRD ANGLE PROJECTION:   |                           |  |             |  |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |                           |  |             |  |   |                      |  |
| MANUFACTURING METHOD: MACHINING   |                           |  |             | WEIGHT: 24.50 g  |   |                      |  |
| MATERIAL: Plain Carbon Steel  |                           |  |             | SCALE: 2:1   |   |                      |  |
| SHEET: 98   |                           |  |             | REVISION: A  |   |                      |  |


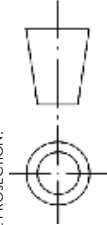
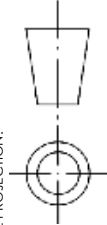


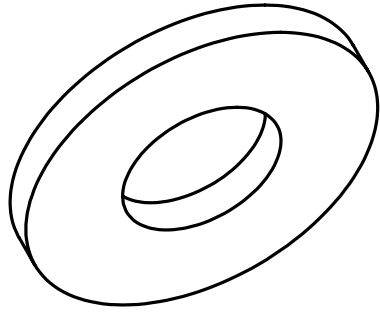
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| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |                           | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |                      |  |
| DRAWN  |                           | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 24-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| APP'VD   | DR. AKM SAIFUL ISLAM      | A. S.I   | A. S.I    | 16-APR-2024  | DRG. NAME: TENSION SCREW HOLDER - 1           |                      |  |
| THIRD ANGLE PROJECTION:  |                           |  |           | DWG NO: RM2024A-S4-070   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |                           |  |           | MANUFACTURING METHOD: MACHINING  |   |                      |  |
|  |                           |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 110.45 g     |  |
|  |                           |  |           | SCALE: 3:2   |   | REVISION: A          |  |
|  |                           |  |           | SHEET 99   |   | REVISION: A          |  |




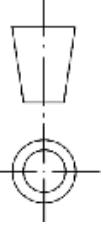
SECTION A-A



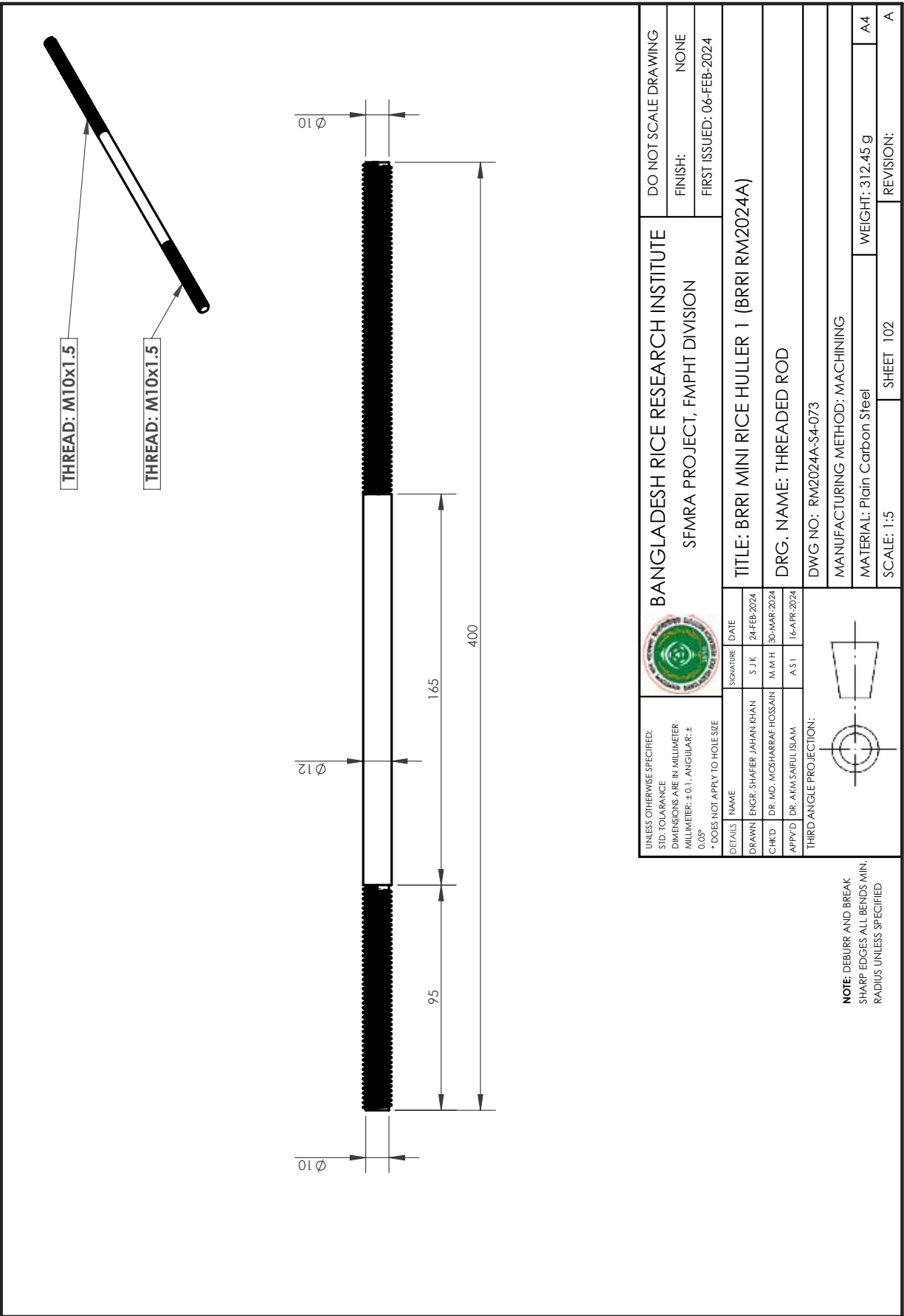
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|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | FINISH: NONE                                  |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 24-FEB-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| APP'VD   |  | DR. AKM SAIFUL ISLAM   | A. S.I    | 16-APR-2024  | DRG. NAME: TENSION SCREW HOLDER - 2           |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S4-071   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  |  |           | MANUFACTURING METHOD: MACHINING  |   |                      |  |
|  |  |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 106.58 g     |  |
|  |  |  |           | SCALE: 1:1   |   | REVISION: A          |  |
|  |  |  |           | SHEET 100  |   | A                    |  |



**WASHER-**  
**OUTER DIA: 20mm**  
**INNER DIA: 9mm**  
**THICKNESS: 2mm**

|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN RHAN  | S. J.K    | 24-FEB-2024  | DRG. NAME: WASHER                             |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | DWG NO: RM2024A-S4-072                        |                      |  |
| APP'VD   |  | DR. AKM SAIBUL ISLAM   | A.S.I     | 16-APR-2024  | MANUFACTURING METHOD: MACHINING               |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           |  |   |                      |  |
| MATERIAL: Plain Carbon Steel   |  | SCALE: 5:1   |           | SHEET 101  |   | REVISION: A          |  |
| WEIGHT: 3.91 g   |  | A4   |           |  |   |                      |  |

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



THREAD: M10x1.5

THREAD: M10x1.5


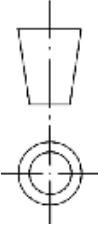
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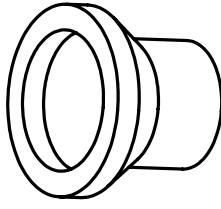
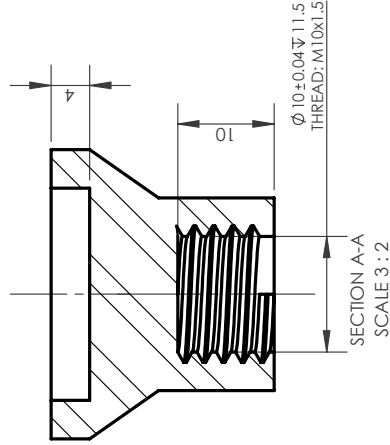
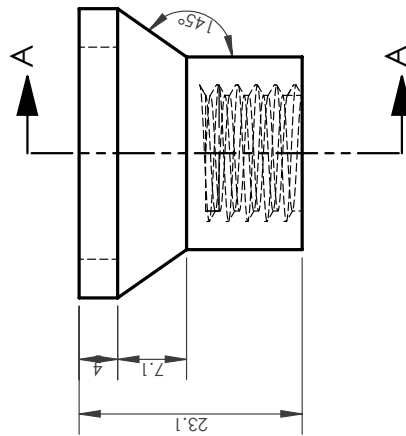
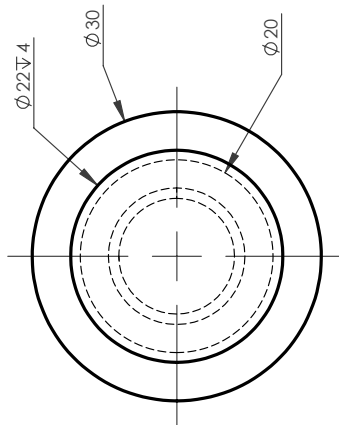
Ø10

95

165

400

|  |                           |  |             |  |  |                      |  |
|--|---------------------------|--|-------------|--|--|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING |  |
| DETAILS  | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |  |                      |  |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 24-FEB-2024 | FINISH:  |  | NONE                 |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | FIRST ISSUED:  |  | 06-FEB-2024          |  |
| APP'VD   | DR. AKM SAIEUL ISLAM      | A. S.I   | 16-APR-2024 | DRG. NAME: THREADED ROD  |  |                      |  |
| THIRD ANGLE PROJECTION:  |                           |  |             | DWG NO: RM2024A-S4-073   |  |                      |  |
|    |                           |  |             | MANUFACTURING METHOD: MACHINING  |  |                      |  |
| <b>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</b>   |                           |  |             | MATERIAL: Plain Carbon Steel   |  | WEIGHT: 312.45 g     |  |
|  |                           |  |             | SCALE: 1:5   |  | REVISION: A          |  |
|  |                           |  |             | SHEET 102  |  | A                    |  |



UNLESS OTHERWISE SPECIFIED:  
 STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER  
 MILLIMETER:  $\pm 0.1$ , 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: 06-FEB-2024

| DETAILS | NAME                      | SIGNATURE | DATE        |
|---------|---------------------------|-----------|-------------|
| DRAWN   | ENGR. SHAFER JAHAN KHAN   | S J K     | 24-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M M H     | 30-MAR-2024 |
| APP'VD  | DR. AKM SAIFUL ISLAM      | A S I     | 16-APR-2024 |

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: TENSION WHEEL

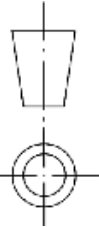
DWG NO: RM2024A-S4-074

MANUFACTURING METHOD: MACHINING

MATERIAL: Plain Carbon Steel

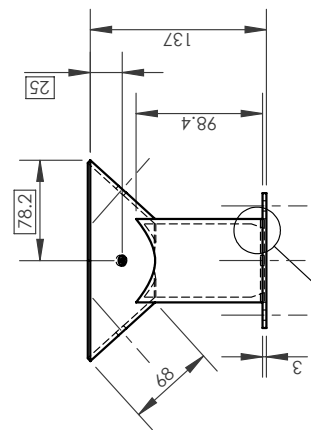
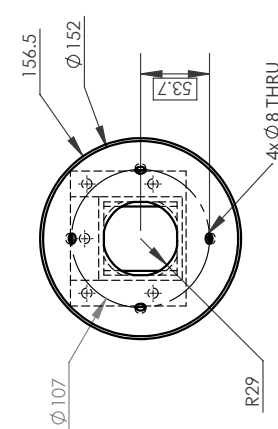
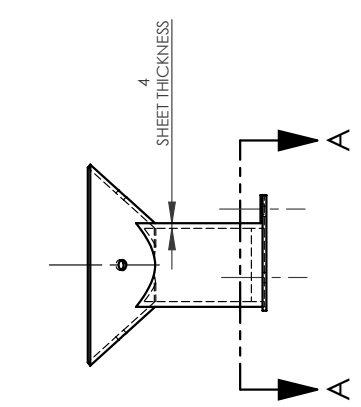
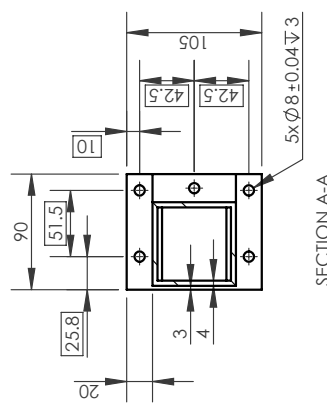
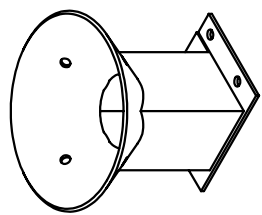
WEIGHT: 56.99 g

REVISION: A



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

SCALE: 3:2 SHEET 103



**BANGLADESH RICE RESEARCH INSTITUTE**  
**SFMRA PROJECT, FMPHT DIVISION**

**TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)**

**DRG. NAME: HOPPER-BASE**

**DWG NO: RM2024A-S5-075**

**MANUFACTURING METHOD: MACHINING**

**MATERIAL: Plain Carbon Steel**

**SCALE: 3:2**

**SHEET 104**

**REVISION: A**

**DO NOT SCALE DRAWING**

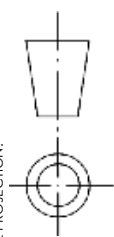
**FINISH: NONE**

**FIRST ISSUED: 06-FEB-2024**

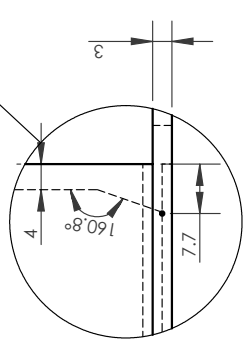
UNLESS OTHERWISE SPECIFIED:  
 STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER  
 MILLIMETER: ±0.1, ANGULAR: ±  
 0.05°  
 \* DOES NOT APPLY TO HOLE SIZE

| DETAILS | NAME                      | SIGNATURE | DATE        |
|---------|---------------------------|-----------|-------------|
| DRAWN   | ENGR. SHAFER JAHAN KHAN   | S J K     | 26-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M M H     | 30-MAR-2024 |
| APP'D   | DR. AKN. SAIFUL ISLAM     | A S I     | 16-APR-2024 |

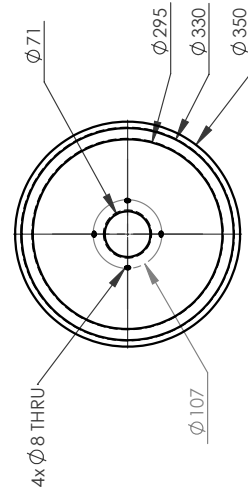
THIRD ANGLE PROJECTION:



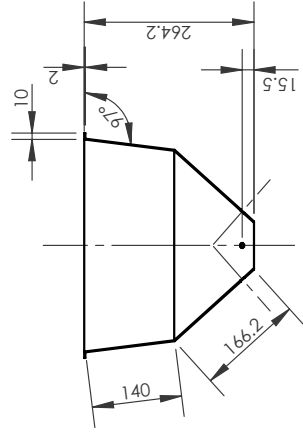
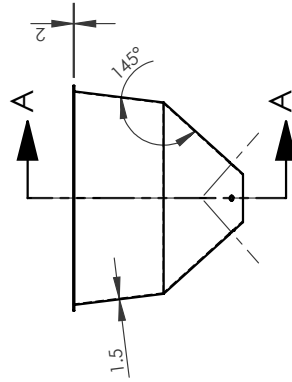
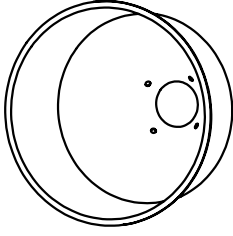
**NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED**



**DETAIL B**  
**SCALE 1 : 1**



N.B.: SHEET THICKNESS 1.5mm.



SECTION A-A



**BANGLADESH RICE RESEARCH INSTITUTE**  
**SFMRA PROJECT, FMPHT DIVISION**

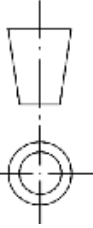
DO NOT SCALE DRAWING  
 FINISH: NONE  
 FIRST ISSUED: 06-FEB-2024

**TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)**

**DRG. NAME: HOPPER**

DWG NO: RM2024A-S5-076

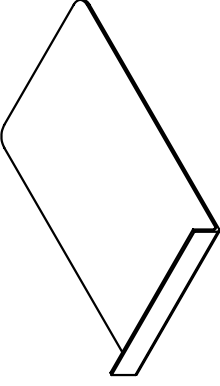
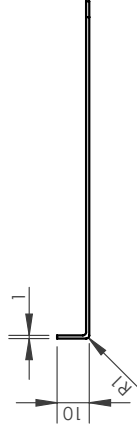
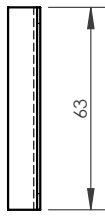
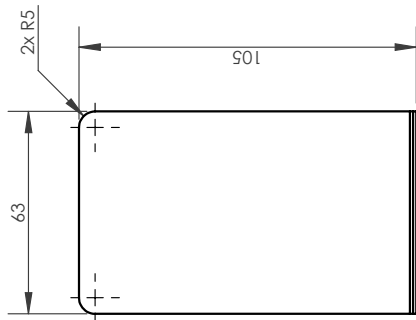
**NOTE:** DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED


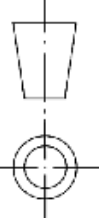
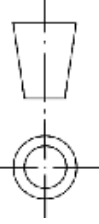


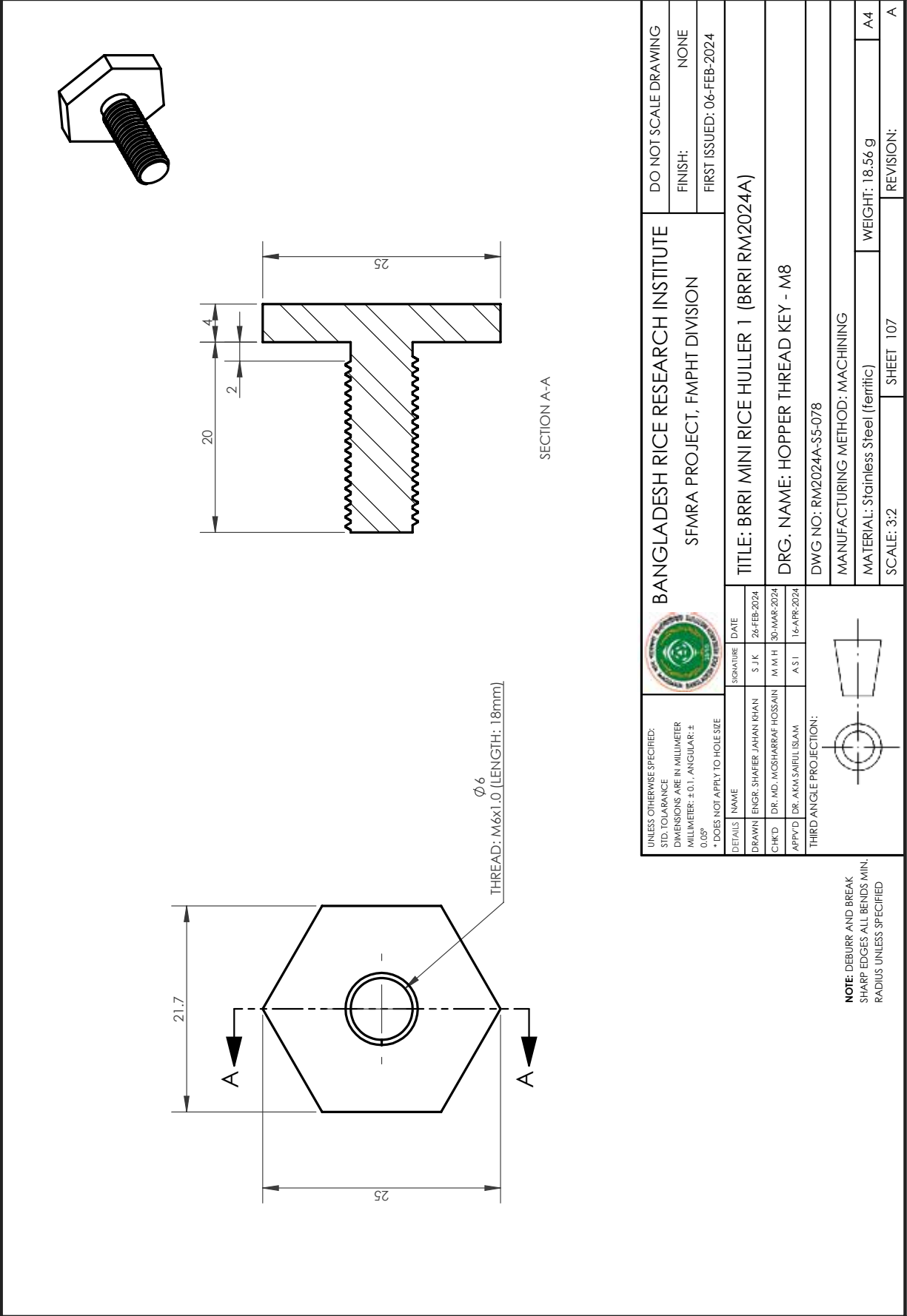
MANUFACTURING METHOD: MACHINING  
 MATERIAL: Plain Carbon Steel  
 SCALE: 3:2


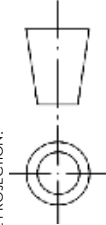

WEIGHT: 2908.02 g  
 REVISION: A

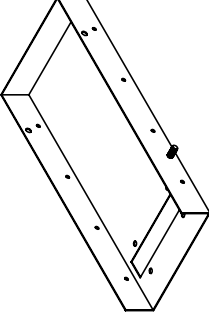
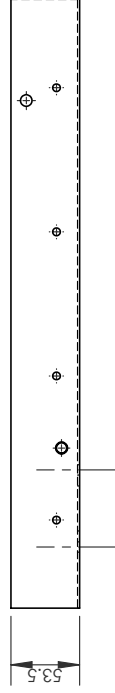
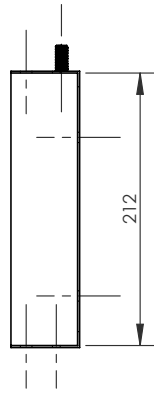
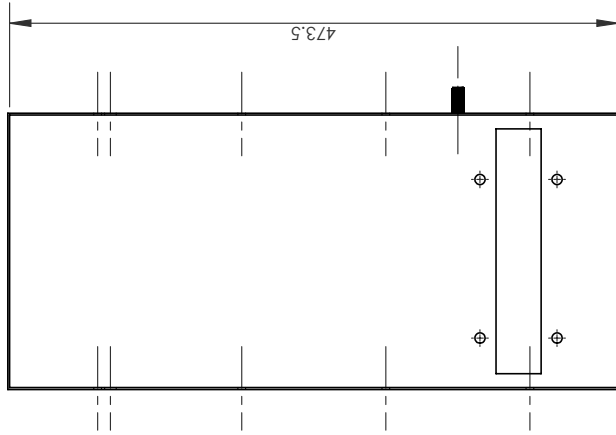
SHEET 105




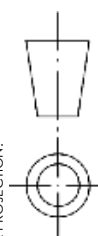
|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 26-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'D  |  | DR. AKM SAIFUL ISLAM   | A. S.I    | 16-APR-2024  | DRG. NAME: HOPPER - PADDY SUPPEY CONTROLLER   |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S5-077   |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  |  |           | MANUFACTURING METHOD: MACHINING  |   |                      |  |
|  |  |  |           | MATERIAL: Plain Carbon Steel   |   | WEIGHT: 55.94 g      |  |
|  |  |  |           | SCALE: 3:2   |   | REVISION: A          |  |
|  |  |  |           | SHEET 106  |   | A                    |  |

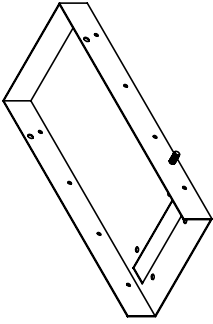


|  |  |   |           |  |   |                      |  |
|--|--|---|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |   |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME  | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN RHAN   | S J K     | 26-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN   | M M H     | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'VD   |  | DR. AKM SAIFUL ISLAM  | A S I     | 16-APR-2024  | DRG. NAME: HOPPER THREAD KEY - M8             |                      |  |
| THIRD ANGLE PROJECTION:  |  |   |           | DWG NO: RM2024A-S5-078   |   |                      |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |  |  |           | MANUFACTURING METHOD: MACHINING  |   |                      |  |
|  |  | SCALE: 3:2  |           | SHEET 107  |   | WEIGHT: 18.56 g      |  |
|  |  |   |           | REVISION:  |   | A                    |  |

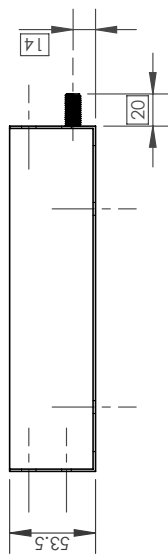
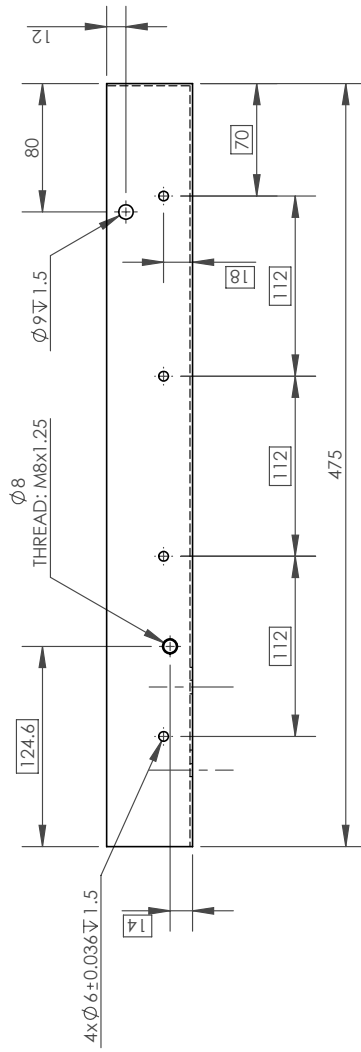


N.B: DETAIL VIEW FOR FRONT, RIGHT, TOP HAS SHOWN IN NEXT PAGES

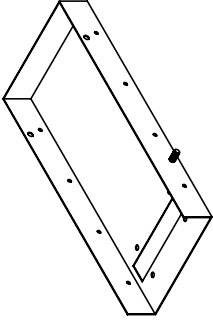
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|---|---------------------------|--|-------------|--|--|---------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ± 0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |  | DO NOT SCALE DRAWING      |  |
| DETAILS   | NAME                      | SIGNATURE  | DATE        | <b>TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)</b>                                 |  | FINISH: NONE              |  |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M. M. H.   | 30-MAR-2024 | <b>DRG. NAME: GRADER CASING</b>  |  | FIRST ISSUED: 06-FEB-2024 |  |
| APP'VD  | DR. AKM SAIFUL ISLAM      | A. S. I.   | 16-APR-2024 | <b>DWG NO: RM2024A-S6-079</b>  |  |                           |  |
| THIRD ANGLE PROJECTION:   |                           |  |             |  |  |                           |  |
| <b>NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED</b>  |                           |  |             | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                                   |  |                           |  |
|   |                           |  |             | MATERIAL: Plain Carbon Steel   |  | WEIGHT: 1825.69 g         |  |
|   |                           |  |             | SCALE: 1:5   |  | SHEET 108                 |  |
|   |                           |  |             | REVISION:  |  | A                         |  |



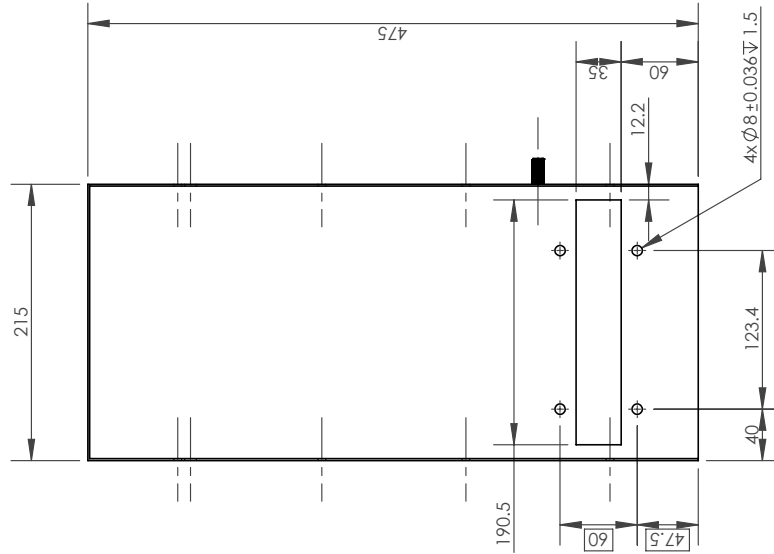
N.B: MODEL IS SYMMETRY.  
 \*\*\*NOT A COMPLETE DRAWING.  
 \*\*\*ONLY FRONT AND RIGHT VIEW DIMENSIONS HAS SHOWN HERE.  
 \*SCALE 1:4



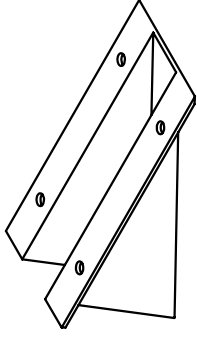
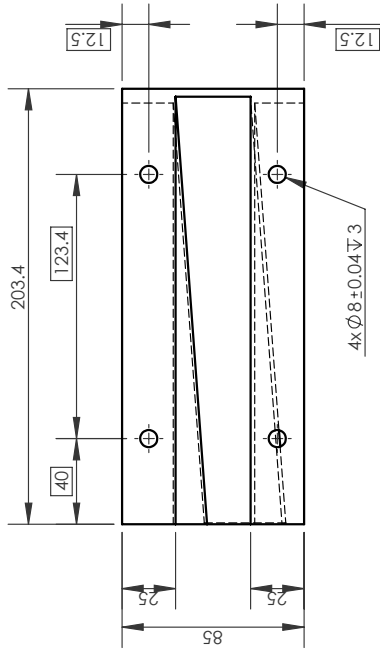
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 SHEET NO: 109



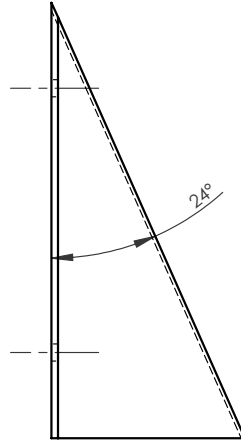
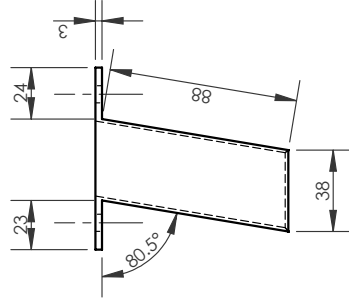
N.B: MODEL IS SYMMETRY.  
 \*\*\*NOT A COMPLETE DRAWING.  
 \*\*\*ONLY TOP VIEW DIMENSIONS HAS SHOWN HERE.  
 \*SCALE 1:5


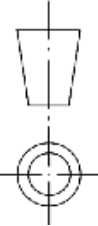


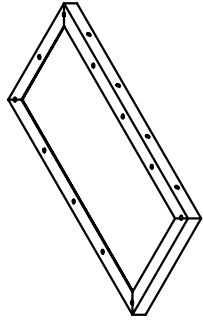
DRAWING NO: RM2024A-S6-079  
 SHEET NO: 110



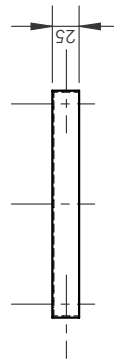
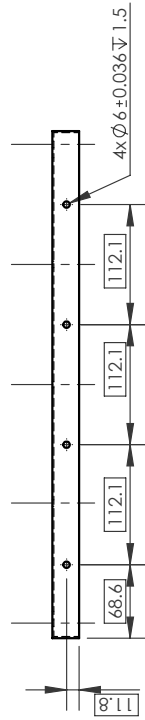
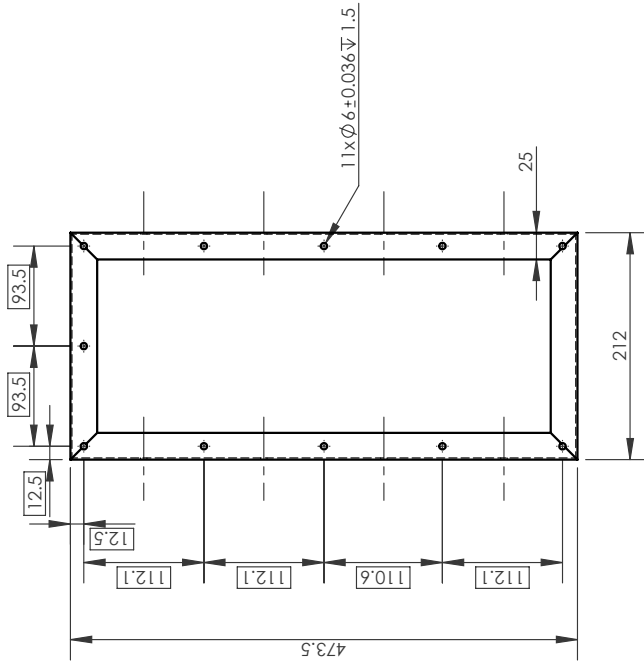
N.B: MODEL IS SYMMETRY FOR HOLES.



|  |                           |  |             |  |  |                              |  |
|--|---------------------------|--|-------------|--|--|------------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |  | DO NOT SCALE DRAWING         |  |
| DETAILS  | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)  |  | FINISH: NONE                 |  |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 28-FEB-2024 | DRG. NAME: GRADER BROKEN RICE OUTPUT LINE  |  | FIRST ISSUED: 06-FEB-2024    |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | DWG NO: RM2024A-S6-080   |  | REVISION: A                  |  |
| APP'VD   | DR. AKM SAIFUL ISLAM      | A. S.I   | 16-APR-2024 | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                                   |  | WEIGHT: 522.95 g             |  |
| THIRD ANGLE PROJECTION:  |                           |  |             |  |  | MATERIAL: Plain Carbon Steel |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |                           |  |             | SCALE: 3:2   |  | SHEET 1/11                   |  |



N.B: MODEL IS SYMMETRY.  
\*ANGLE BAR SIZE: (25x25x1.5)mm.



**BANGLADESH RICE RESEARCH INSTITUTE**  
SFMRA PROJECT, FMPHT DIVISION

DO NOT SCALE DRAWING  
FINISH: NONE  
FIRST ISSUED: 06-FEB-2024

TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)

DRG. NAME: GRADER NET HOLDING ANGLE FRAME

DWG NO: RM2024A-S6-081

MANUFACTURING METHOD: MACHINING, BENDING & WELDING

MATERIAL: Plain Carbon Steel

SCALE: 3:2

SHEET 112

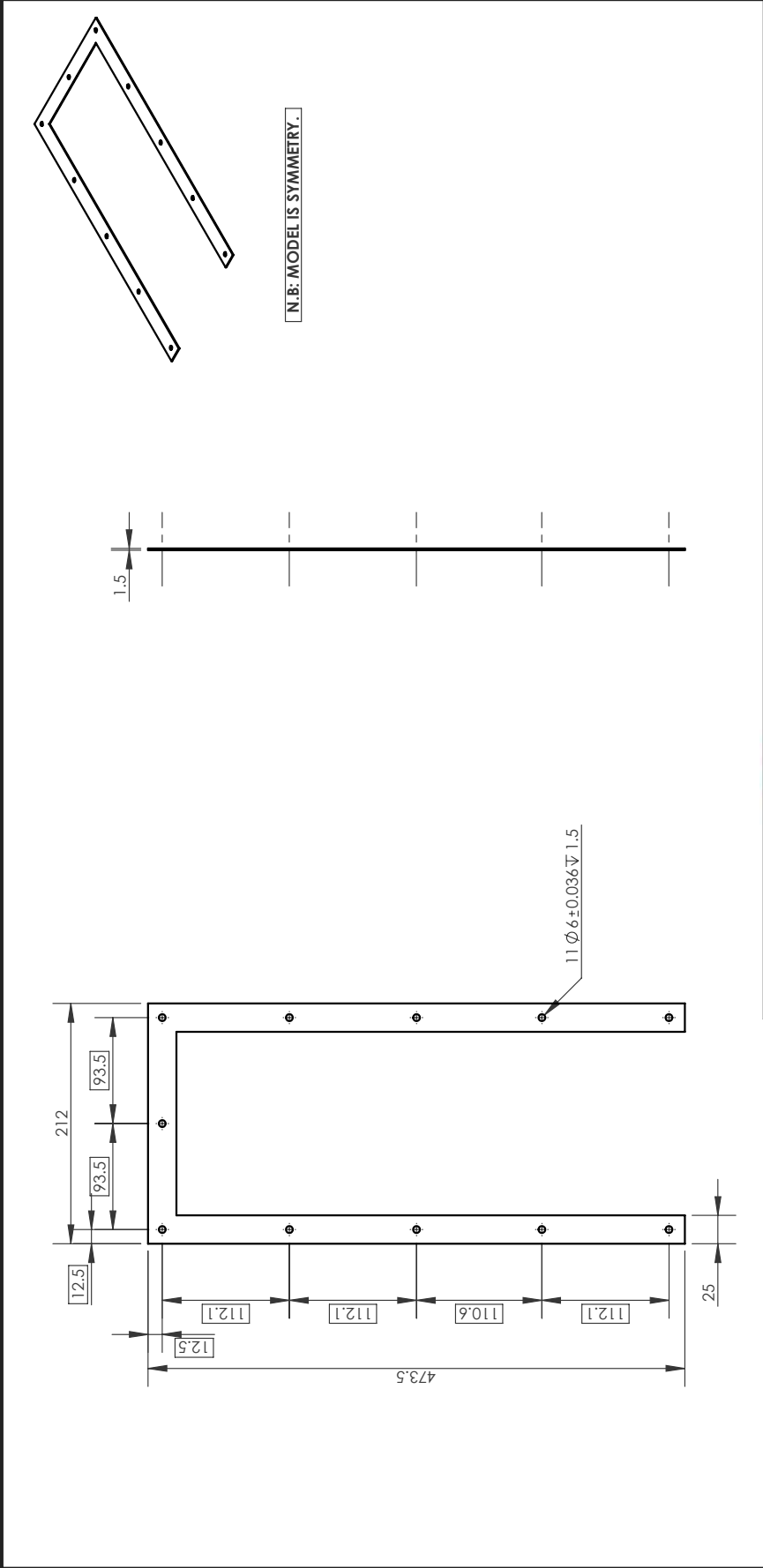
REVISION: A

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


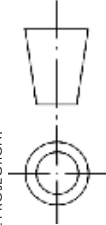
| DETAILS | NAME                      | SIGNATURE | DATE        |
|---------|---------------------------|-----------|-------------|
| DRAWN   | ENGR. SHAFER JAHAN KHAN   | S J K     | 28-FEB-2024 |
| CHK'D   | DR. MD. MOSHARRAF HOSSAIN | M M H     | 30-MAR-2024 |
| APP'VD  | DR. AKM SAIFUL ISLAM      | A S I     | 16-APR-2024 |

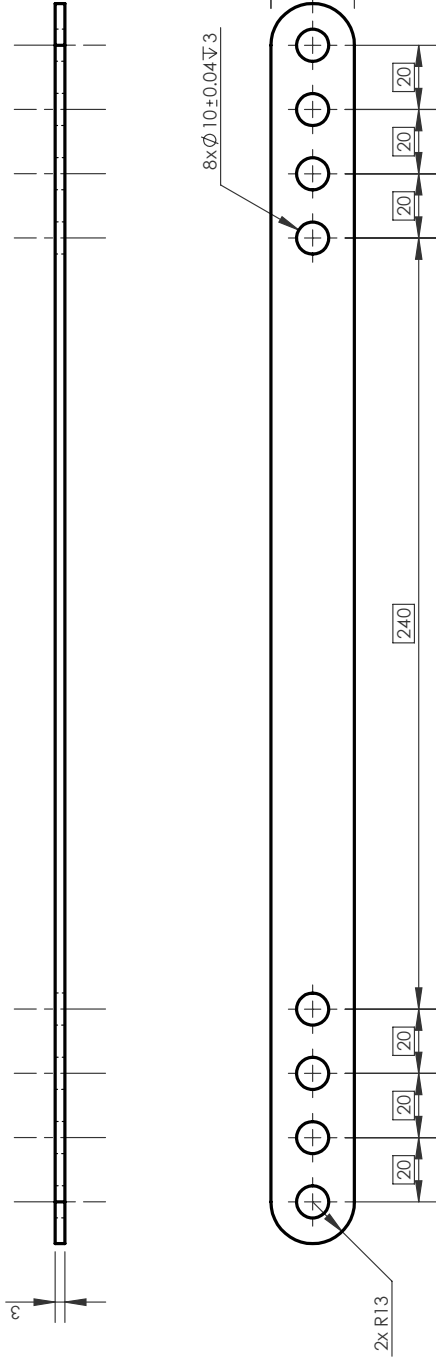
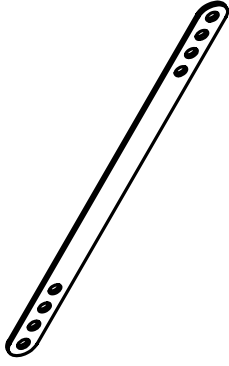
THIRD ANGLE PROJECTION:


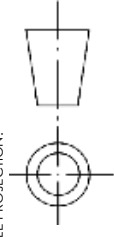
NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED

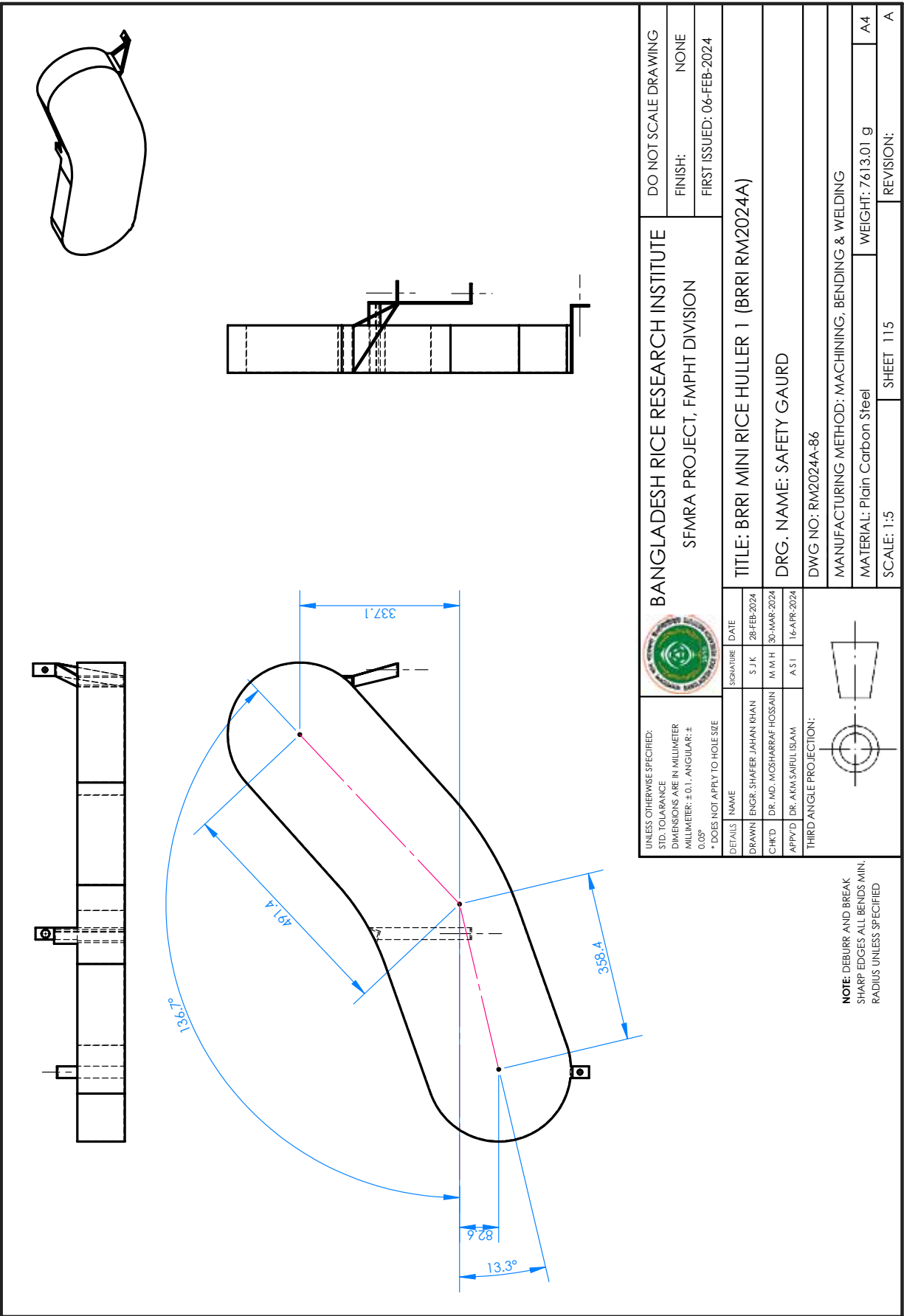



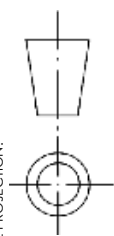
N.B: MODEL IS SYMMETRY.

|  |  |  |           |  |   |                      |  |
|--|--|--|-----------|--|---|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.08°<br>* DOES NOT APPLY TO HOLE SIZE |  |  |           | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |   | DO NOT SCALE DRAWING |  |
| DETAILS  |  | NAME   | SIGNATURE | DATE   | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |  |
| DRAWN  |  | ENGR. SHAFER JAHAN KHAN  | S. J.K    | 28-FEB-2024  | FINISH: NONE                                  |                      |  |
| CHK'D  |  | DR. MD. MOSHARRAF HOSSAIN  | M. M.H    | 30-MAR-2024  | FIRST ISSUED: 06-FEB-2024                     |                      |  |
| APP'VD   |  | DR. AKM SAIFUL ISLAM   | A.S.I     | 16-APR-2024  | DRG. NAME: GRADER NET HOLDING FRAME           |                      |  |
| THIRD ANGLE PROJECTION:  |  |  |           | DWG NO: RM2024A-S6-083   |   |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |  | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                                   |           | SCALE: 3:2   |   |                      |  |
|  |  | MATERIAL: Plain Carbon Steel   |           | WEIGHT: 320.74 g   |   | REVISION: A          |  |
|  |  | SHEET 113  |           | A  |   |                      |  |

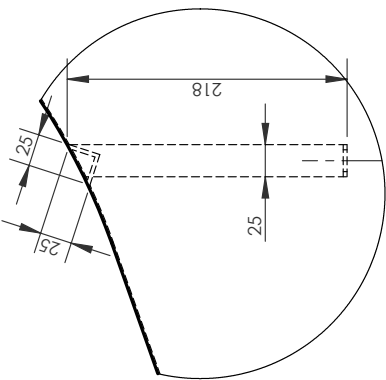


|  |                           |  |             |  |  |                      |  |
|--|---------------------------|--|-------------|--|--|----------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION |  | DO NOT SCALE DRAWING |  |
| DETAILS  | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)                              |  |                      |  |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 28-FEB-2024 | FINISH: NONE   |  |                      |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | FIRST ISSUED: 06-FEB-2024  |  |                      |  |
| APP'D  | DR. AKM SAIBUL ISLAM      | A.S.I  | 16-APR-2024 | DRG. NAME: GRADER HOLDING BAR  |  |                      |  |
| THIRD ANGLE PROJECTION:  |                           |  |             | DWG NO: RM2024A-S6-084   |  |                      |  |
|    |                           |  |             | MANUFACTURING METHOD: MACHINING  |  |                      |  |
| <b>NOTE:</b> DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED   |                           |  |             | MATERIAL: Plain Carbon Steel   |  | WEIGHT: 216.75 g     |  |
|  |                           |  |             | SCALE: 3:2   |  | REVISION: A          |  |
|  |                           |  |             | SHEET 114  |  | A                    |  |

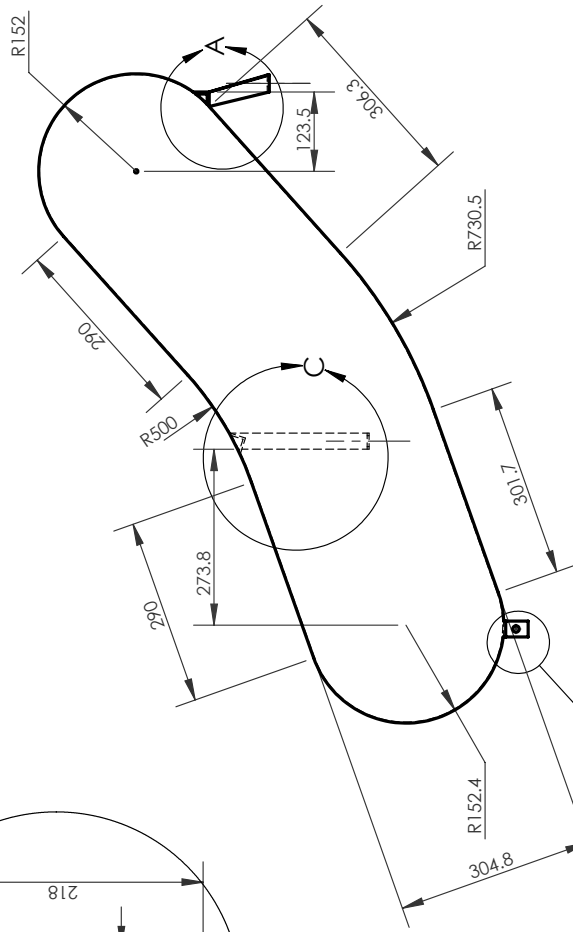


|  |                           |  |             |  |  |                           |  |
|--|---------------------------|--|-------------|--|--|---------------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ±0.1, ANGULAR: ±0.05°<br>* DOES NOT APPLY TO HOLE SIZE |                           |  |             | <b>BANGLADESH RICE RESEARCH INSTITUTE</b><br>SFMRA PROJECT, FMPHT DIVISION           |  | DO NOT SCALE DRAWING      |  |
| DETAILS  | NAME                      | SIGNATURE  | DATE        | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A)  |  |                           |  |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S. J.K   | 28-FEB-2024 | FINISH: NONE   |  | FIRST ISSUED: 06-FEB-2024 |  |
| CHK'D  | DR. MD. MOSHARRAF HOSSAIN | M. M.H   | 30-MAR-2024 | DRG. NAME: SAFETY GAURD  |  |                           |  |
| APP'VD   | DR. AKM SAIBUL ISLAM      | A. S.I   | 16-APR-2024 | DWG NO: RM2024A-86   |  |                           |  |
| THIRD ANGLE PROJECTION:  |                           |  |             |  |  |                           |  |
| NOTE: DEBURR AND BREAK SHARP EDGES ALL BENDS MIN. RADIUS UNLESS SPECIFIED  |                           |  |             | MANUFACTURING METHOD: MACHINING, BENDING & WELDING                                   |  |                           |  |
|  |                           |  |             | MATERIAL: Plain Carbon Steel   |  | WEIGHT: 7613.01 g         |  |
|  |                           |  |             | SCALE: 1:5   |  | REVISION: A               |  |
|  |                           |  |             | SHEET 115  |  | A                         |  |

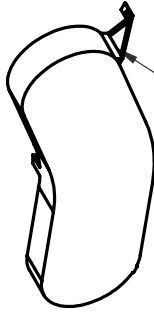
N.B: ONLY FRONT VIEW DIMENSIONS HAS SHOWN HERE.  
 \*\*\*NOT A COMPLETE DRAWING.  
 \*SCALE 1:10



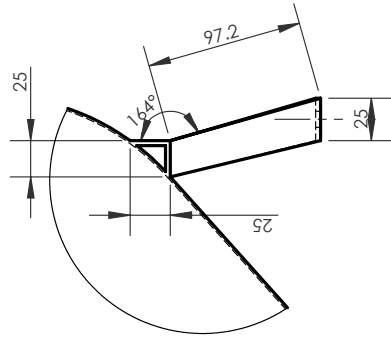
DETAIL C  
 SCALE 1 : 5



DETAIL B  
 SCALE 1 : 3



\*ANGLE BAR: (25x25x3)mm.

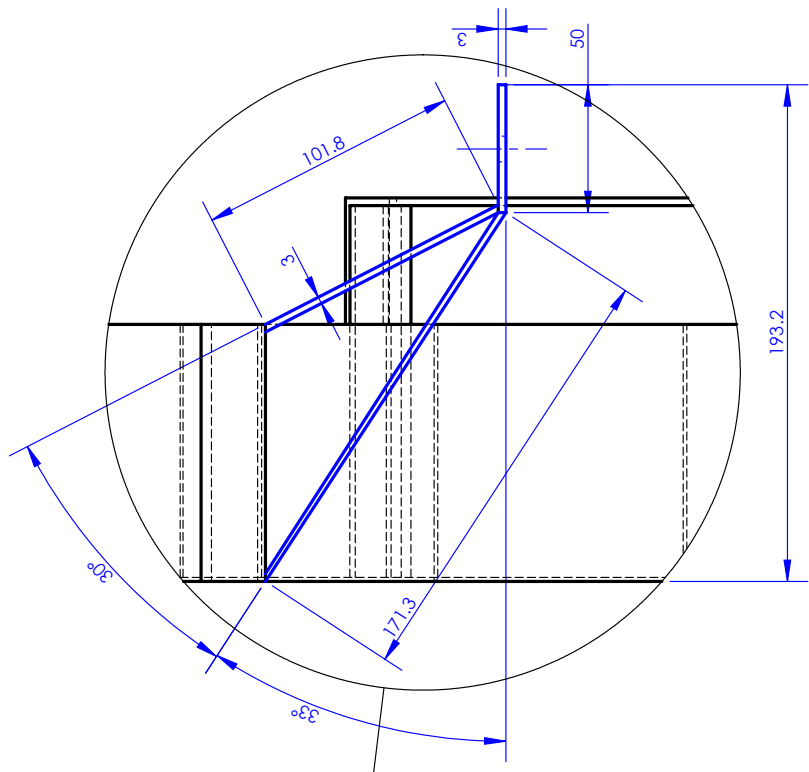
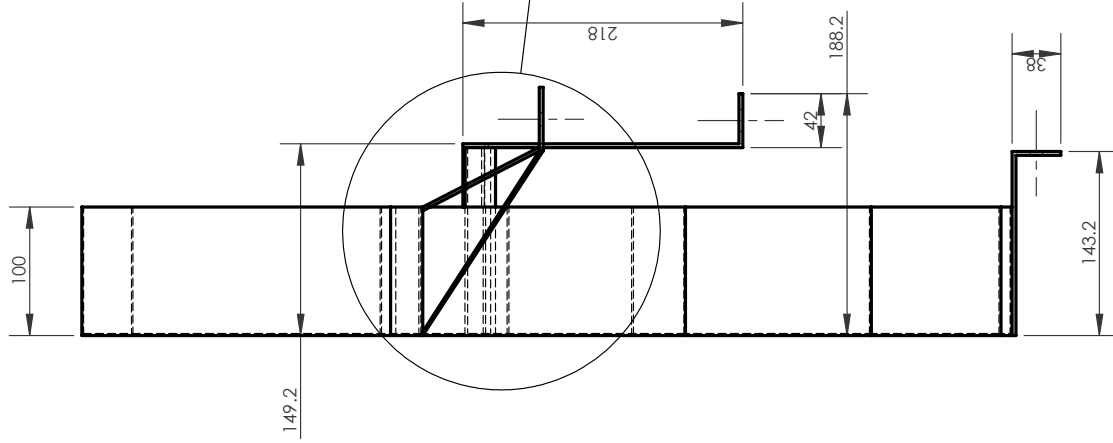


DETAIL A  
 SCALE 1 : 4

DWG NO: RM2024A-86  
 SHEET NO: 116



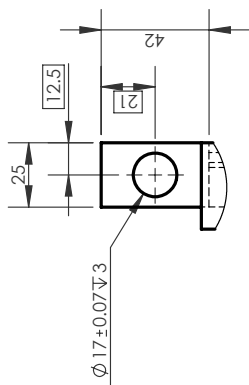
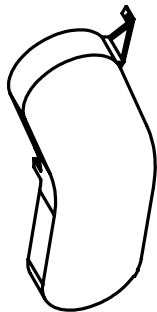
N.B: ONLY **RIGHT VIEW** DIMENSIONS HAS SHOWN HERE.  
\*\*\*NOT A COMPLETE DRAWING.  
\*\*\*SHEET THICKNESS: 1.5mm.  
\*SCALE 1:5



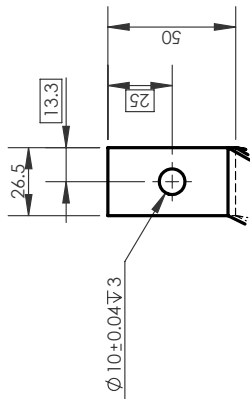
DETAIL D  
SCALE 2 : 5

DRAWING NO: RM2024A-86  
SHEET NO: 117

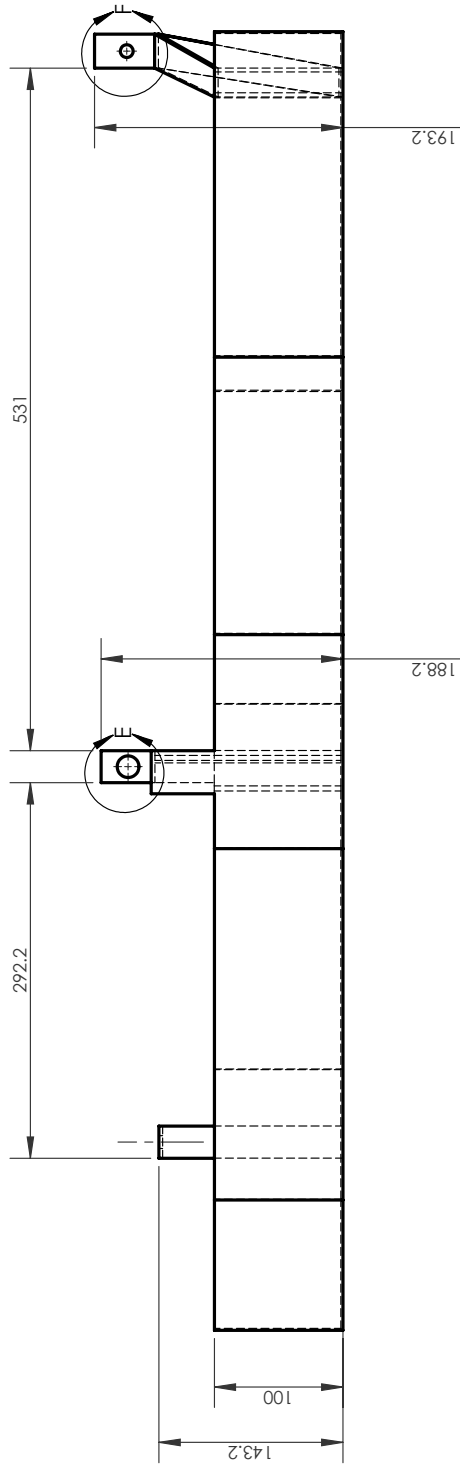
N.B: ONLY TOP VIEW DIMENSIONS HAS SHOWN HERE.  
 \*\*\*NOT A COMPLETE DRAWING.  
 \*\*\*SHEET THICKNESS: 1.5mm.  
 \*SCALE 1:5



DETAIL E  
SCALE 2 : 5




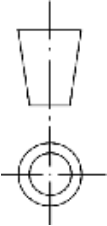
DETAIL F  
SCALE 2 : 5



DRAWING NO: RM2024A-86  
 SHEET NO: 118




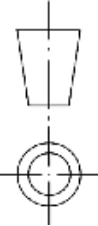
V-GROOVE TYPE-B BELT  
MODEL: B-68

|  |   |           |                                    |   |                      |                           |
|--|---|-----------|------------------------------------|---|----------------------|---------------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ± 0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |           | BANGLADESH RICE RESEARCH INSTITUTE |   | DO NOT SCALE DRAWING |                           |
|  |   |           | SFMPRA PROJECT, FMPHT DIVISION     |   | FINISH: NONE         | FIRST ISSUED: 06-FEB-2024 |
| DETAILS  | NAME  | SIGNATURE | DATE                               | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |                           |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S J K     | 28-FEB-2024                        | DRG. NAME: V-BELT TYPE-B MODEL NO-68          |                      |                           |
| CHKD   | DR. MD. MOSHARRAF HOSSAIN   | M M H     | 30-MAR-2024                        | DWG NO: RM2024A-87                            |                      |                           |
| APPVD  | DR. AKAM SABUL ISLAM  | AS I      | 16-APR-2024                        | FINDINGS: SHOP                                |                      |                           |
| THIRD ANGLE PROJECTION:  |   |           |                                    | MATERIAL: Rubber                              |                      |                           |
|   |   |           |                                    | SCALE: 3:2                                    |                      | REVISION:                 |
|  |   |           |                                    | SHEET 119                                     |                      | WEIGHT: 98.21 g           |

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



V-GROOVE TYPE-B BELT  
MODEL: B-48

|  |   |           |                                    |   |                      |                           |
|--|---|-----------|------------------------------------|---|----------------------|---------------------------|
| UNLESS OTHERWISE SPECIFIED:<br>STD. TOLERANCE<br>DIMENSIONS ARE IN MILLIMETER<br>MILLIMETER: ± 0.1, ANGULAR: ±<br>0.05°<br>* DOES NOT APPLY TO HOLE SIZE |  |           | BANGLADESH RICE RESEARCH INSTITUTE |   | DO NOT SCALE DRAWING |                           |
|  |   |           | SFMRA PROJECT, FMPHT DIVISION      |   | FINISH: NONE         | FIRST ISSUED: 06-FEB-2024 |
| DETAILS  | NAME  | SIGNATURE | DATE                               | TITLE: BRRI MINI RICE HULLER 1 (BRRI RM2024A) |                      |                           |
| DRAWN  | ENGR. SHAFER JAHAN KHAN   | S J K     | 28-FEB-2024                        | DRG. NAME: V-BELT TYPE-B MODEL NO-48          |                      |                           |
| CHKD   | DR. MD. MOSHARRAF HOSSAIN   | M M H     | 30-MAR-2024                        | DWG NO: RM2024A-88                            |                      |                           |
| APPVD  | DR. AKAM SABUL ISLAM  | AS I      | 16-APR-2024                        | FINDINGS: SHOP                                |                      |                           |
| THIRD ANGLE PROJECTION:  |   |           |                                    | MATERIAL: Rubber                              |                      |                           |
|   |   |           |                                    | SCALE: 3:2                                    |                      | REVISION: A               |
|  |   |           |                                    | SHEET 120                                     |                      | WEIGHT: 188.93 g          |

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