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## SHREE RAMA NEWSPRINT LTD. WRITING AND PRINTING PAPER

**RAMA SILVER**

### QUALITY SPECIFICATIONS



| SL. NO | PARTICULARS          | UNIT             | Specification |             |             |             |             |             |             |             |             |             |
|--------|----------------------|------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|        |                      |                  | 48 gsm        | 50 gsm      | 52 gsm      | 54 gsm      | 56 gsm      | 58 gsm      | 60 gsm      | 64 gsm      | 70 gsm      | 80 gsm      |
| 1      | Substance            | g/m <sup>2</sup> | ±2.5 %        | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      |
| 2      | Moisture             | %                | 4.1 ± 0.2     | 4.1 ± 0.2   | 4.1 ± 0.2   | 4.1 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   |
| 3      | Bulk                 | cc/gm            | 1.36 ± 0.02   | 1.36 ± 0.02 | 1.36 ± 0.02 | 1.34 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 |
| 4      | Breaking Length MD   | Meter            | 4200 ± 200    | 4200 ± 200  | 4200 ± 200  | 4000 ± 200  | 4000 ± 200  | 4000 ± 200  | 3800 ± 200  | 3800 ± 200  | 3800 ± 200  | 3800 ± 200  |
|        | CD                   | Meter            | 2200 ± 200    | 2200 ± 200  | 2200 ± 200  | 1950 ± 200  | 1950 ± 200  | 1950 ± 200  | 1800 ± 200  | 1800 ± 200  | 1800 ± 200  | 1800 ± 200  |
| 5      | Tear Factor MD       | -                | 48            | 48          | 48          | 48          | 47          | 47          | 47          | 46          | 46          | 46          |
| 6      | CD                   | -                | 63            | 63          | 63          | 63          | 60          | 60          | 60          | 57          | 57          | 57          |
| 7      | Smootness (Bendtsen) | ml/min           | 120 ± 20      | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    |
|        |                      | ml/min           | 150 ± 20      | 150 ± 20    | 150 ± 20    | 150 ± 20    | 150 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    |
| 8      | Brightness(ISO)      | %                | 75.0 ± 1.0    | 75.0 ± 1.0  | 75.0 ± 1.0  | 75.0 ± 1.0  | 75.0 ± 1.0  | 75.0 ± 1.0  | 75.0 ± 1.0  | 75.0 ± 1.0  | 75.0 ± 1.0  | 75.0 ± 1.0  |
| 9      | Opacity              | %                | 92.0 ± 1.0    | 92.0 ± 1.0  | 92.0 ± 1.0  | 92.0 ± 1.0  | 92.0 ± 1.0  | 94.0 ± 1.0  | 94.0 ± 1.0  | 94.0 ± 1.0  | 95.0 ± 1.0  | 95.0 ± 1.0  |
| 10     | L*                   | %                | 87            | 87          | 87          | 87          | 87          | 87          | 87          | 87          | 87          | 87          |
| 11     | a*                   | %                | 3.7 ± 0.2     | 3.7 ± 0.2   | 3.7 ± 0.2   | 3.7 ± 0.2   | 3.7 ± 0.2   | 3.7 ± 0.2   | 3.7 ± 0.2   | 3.7 ± 0.2   | 3.7 ± 0.2   | 3.7 ± 0.2   |
| 12     | b*                   | %                | -7.7 ± 0.2    | -7.7 ± 0.2  | -7.7 ± 0.2  | -7.7 ± 0.2  | -7.7 ± 0.2  | -7.7 ± 0.2  | -7.7 ± 0.2  | -7.7 ± 0.2  | -7.7 ± 0.2  | -7.7 ± 0.2  |
| 14     | Cobb (60 Secs)       | g/m <sup>2</sup> | 25.0 (Max)    | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  |
| 15     | Wax Pick             |                  | 8 A" Clear    | 8 A" Clear  | 8 A" Clear  | 8 A" Clear  | 8 A" Clear  | 8 A" Clear  | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  |

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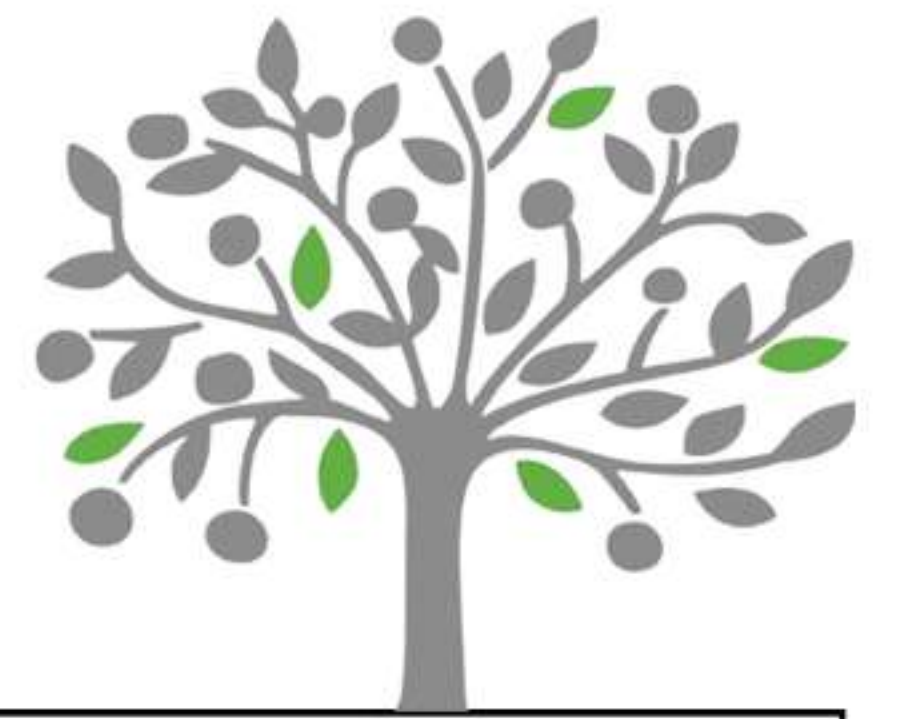


# SHREE RAMA NEWSPRINT LTD.

## WRITING AND PRINTING PAPER

**RAMA PEARL**

### QUALITY SPECIFICATIONS



| SL. NO | PARTICULARS          | UNIT             | Specification |             |             |             |             |             |             |             |             |             |
|--------|----------------------|------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|        |                      |                  | 48 gsm        | 50 gsm      | 52 gsm      | 54 gsm      | 56 gsm      | 58 gsm      | 60 gsm      | 64 gsm      | 70 gsm      | 80 gsm      |
| 1      | Substance            | g/m <sup>2</sup> | ±2.5 %        | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      |
| 2      | Moisture             | %                | 4.1 ± 0.2     | 4.1 ± 0.2   | 4.1 ± 0.2   | 4.1 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   |
| 3      | Bulk                 | cc/gm            | 1.36 ± 0.02   | 1.36 ± 0.02 | 1.36 ± 0.02 | 1.34 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 |
| 4      | Breaking Length      | MD               | Meter         | 4200 ± 200  | 4200 ± 200  | 4200 ± 200  | 4000 ± 200  | 4000 ± 200  | 4000 ± 200  | 3800 ± 200  | 3800 ± 200  | 3800 ± 200  |
|        |                      | CD               | Meter         | 2200 ± 200  | 2200 ± 200  | 2200 ± 200  | 1950 ± 200  | 1950 ± 200  | 1950 ± 200  | 1800 ± 200  | 1800 ± 200  | 1800 ± 200  |
| 5      | Tear Factor          | MD               | -             | 48          | 48          | 48          | 48          | 47          | 47          | 47          | 46          | 46          |
| 6      |                      | CD               | -             | 63          | 63          | 63          | 63          | 60          | 60          | 60          | 57          | 57          |
| 7      | Smootness (Bendtsen) | ml/min           | 120 ± 20      | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    |
|        |                      | ml/min           | 150 ± 20      | 150 ± 20    | 150 ± 20    | 150 ± 20    | 150 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    |
| 8      | Brightness(ISO)      | %                | 80.0 ± 1.0    | 80.0 ± 1.0  | 80.0 ± 1.0  | 80.0 ± 1.0  | 80.0 ± 1.0  | 80.0 ± 1.0  | 80.0 ± 1.0  | 80.0 ± 1.0  | 80.0 ± 1.0  | 80.0 ± 1.0  |
| 9      | Opacity              | %                | 90.0 ± 1.0    | 90.0 ± 1.0  | 90.0 ± 1.0  | 92.0 ± 1.0  | 92.0 ± 1.0  | 94.0 ± 1.0  | 94.0 ± 1.0  | 95.0 ± 1.0  | 95.0 ± 1.0  | 95.0 ± 1.0  |
| 10     | L*                   | %                | 87            | 87          | 87          | 87          | 87          | 87          | 87          | 87          | 87          | 87          |
| 11     | a*                   | %                | 4.2 ± 0.2     | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   |
| 12     | b*                   | %                | -8.7 ± 0.2    | -8.7 ± 0.2  | -8.7 ± 0.2  | -8.7 ± 0.2  | -8.7 ± 0.2  | -8.7 ± 0.2  | -8.7 ± 0.2  | -8.7 ± 0.2  | -8.7 ± 0.2  | -8.7 ± 0.2  |
| 14     | Cobb (60 Secs)       | g/m <sup>2</sup> | 25.0 (Max)    | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  |
| 15     | Wax Pick             |                  | 9 A" Clear    | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  | 9 A" Clear  |

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## WRITING AND PRINTING PAPER

**RAMA PLATINUM**

### QUALITY SPECIFICATIONS



| SL. NO | PARTICULARS          | UNIT             | Specification |             |             |             |             |             |             |             |             |             |
|--------|----------------------|------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|        |                      |                  | 48 gsm        | 50 gsm      | 52 gsm      | 54 gsm      | 56 gsm      | 58 gsm      | 60 gsm      | 64 gsm      | 70 gsm      | 80 gsm      |
| 1      | Substance            | g/m <sup>2</sup> | ±2.5 %        | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      |
| 2      | Moisture             | %                | 4.1 ± 0.2     | 4.1 ± 0.2   | 4.1 ± 0.2   | 4.1 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   |
| 3      | Bulk                 | cc/gm            | 1.36 ± 0.02   | 1.36 ± 0.02 | 1.36 ± 0.02 | 1.34 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 |
| 4      | Breaking Length MD   | Meter            | 4200 ± 200    | 4200 ± 200  | 4200 ± 200  | 4000 ± 200  | 4000 ± 200  | 4000 ± 200  | 3800 ± 200  | 3800 ± 200  | 3800 ± 200  | 3800 ± 200  |
|        | CD                   | Meter            | 2200 ± 200    | 2200 ± 200  | 2200 ± 200  | 1950 ± 200  | 1950 ± 200  | 1950 ± 200  | 1800 ± 200  | 1800 ± 200  | 1800 ± 200  | 1800 ± 200  |
| 5      | Tear Factor MD       | -                | 48            | 48          | 48          | 48          | 47          | 47          | 47          | 47          | 46          | 46          |
| 6      | CD                   | -                | 56            | 56          | 56          | 56          | 55          | 55          | 55          | 55          | 55          | 55          |
| 7      | Smootness (Bendtsen) | ml/min           | 120 ± 20      | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    |
|        |                      | ml/min           | 150 ± 20      | 150 ± 20    | 150 ± 20    | 150 ± 20    | 150 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    |
| 8      | Brightness(ISO)      | %                | 84.0 ± 1.0    | 84.0 ± 1.0  | 84.0 ± 1.0  | 84.0 ± 1.0  | 84.0 ± 1.0  | 84.0 ± 1.0  | 84.0 ± 1.0  | 84.0 ± 1.0  | 84.0 ± 1.0  | 84.0 ± 1.0  |
| 9      | Opacity              | %                | 88.0 ± 1.0    | 88.0 ± 1.0  | 89.0 ± 1.0  | 90.0 ± 1.0  | 90.0 ± 1.0  | 91.0 ± 1.0  | 92.0 ± 1.0  | 93.0 ± 1.0  | 94.0 ± 1.0  | 95.0 ± 1.0  |
| 10     | L*                   | %                | 87.5          | 87.5        | 87.5        | 87.5        | 87.5        | 87.5        | 87.5        | 87.5        | 87.5        | 87.5        |
| 11     | a*                   | %                | 4.7 ± 0.2     | 4.7 ± 0.2   | 4.7 ± 0.2   | 4.7 ± 0.2   | 4.7 ± 0.2   | 4.7 ± 0.2   | 4.7 ± 0.2   | 4.7 ± 0.2   | 4.7 ± 0.2   | 4.7 ± 0.2   |
| 12     | b*                   | %                | -9.7 ± 0.2    | -9.7 ± 0.2  | -9.7 ± 0.2  | -9.7 ± 0.2  | -9.7 ± 0.2  | -9.7 ± 0.2  | -9.7 ± 0.2  | -9.7 ± 0.2  | -9.7 ± 0.2  | -9.7 ± 0.2  |
| 14     | Cobb (60 Secs)       | g/m <sup>2</sup> | 25.0 (Max)    | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  |
| 15     | Wax Pick             |                  | 10 A" Clear   | 10 A" Clear | 10 A" Clear | 10 A" Clear | 10 A" Clear | 10 A" Clear | 10 A" Clear | 10 A" Clear | 10 A" Clear | 10 A" Clear |

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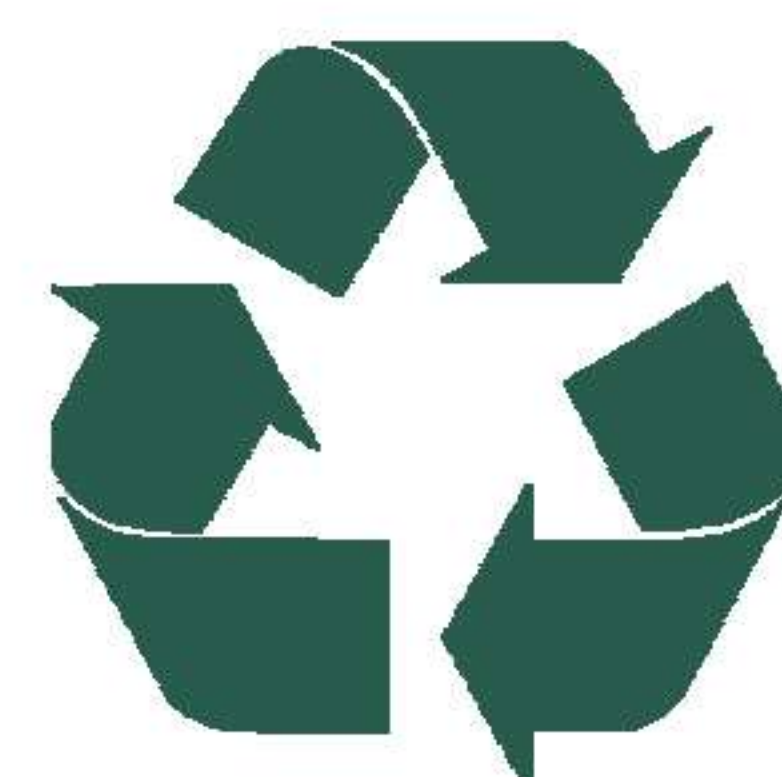
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## SHREE RAMA NEWSPRINT LTD. WRITING AND PRINTING PAPER

**RAMA PALLADIUM**

### QUALITY SPECIFICATIONS



| SL. NO | PARTICULARS          | UNIT             | Specification |             |             |             |             |             |             |             |             |
|--------|----------------------|------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|        |                      |                  | 50 gsm        | 52 gsm      | 54 gsm      | 56 gsm      | 58 gsm      | 60 gsm      | 64 gsm      | 70 gsm      | 80 gsm      |
| 1      | Substance            | g/m <sup>2</sup> | ±2.5 %        | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      | ±2.5 %      |
| 2      | Moisture             | %                | 4.0 ± 0.2     | 4.0 ± 0.2   | 4.1 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   | 4.2 ± 0.2   |
| 3      | Bulk                 | cc/gm            | 1.36 ± 0.02   | 1.36 ± 0.02 | 1.34 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 | 1.30 ± 0.02 |
| 4      | Breaking Length MD   | Meter            | 4200 ± 200    | 4200 ± 200  | 4000 ± 200  | 4000 ± 200  | 4000 ± 200  | 3800 ± 200  | 3800 ± 200  | 3800 ± 200  | 3800 ± 200  |
|        | CD                   | Meter            | 2200 ± 200    | 2200 ± 200  | 1950 ± 200  | 1950 ± 200  | 1950 ± 200  | 1800 ± 200  | 1800 ± 200  | 1800 ± 200  | 1800 ± 200  |
| 5      | Tear Factor MD       | -                | 48            | 48          | 48          | 47          | 47          | 47          | 47          | 46          | 46          |
| 6      | CD                   | -                | 56            | 56          | 56          | 55          | 55          | 55          | 55          | 55          | 55          |
| 7      | Smootness (Bendtsen) | ml/min           | 120 ± 20      | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    | 120 ± 20    |
|        |                      | ml/min           | 150 ± 20      | 150 ± 20    | 150 ± 20    | 150 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    | 140 ± 20    |
| 8      | Brightness(ISO)      | %                | 88.0 ± 1.0    | 88.0 ± 1.0  | 88.0 ± 1.0  | 88.0 ± 1.0  | 88.0 ± 1.0  | 88.0 ± 1.0  | 88.0 ± 1.0  | 88.0 ± 1.0  | 88.0 ± 1.0  |
| 9      | Opacity              | %                | 88.0 ± 1.0    | 88.0 ± 1.0  | 89.0 ± 1.0  | 89.0 ± 1.0  | 90.0 ± 1.0  | 91.0 ± 1.0  | 92.0 ± 1.0  | 94.0 ± 1.0  | 95.0 ± 1.0  |
| 10     | L*                   | %                | 89.5          | 89.5        | 89.5        | 89.5        | 89.5        | 89.5        | 89.5        | 89.5        | 89.5        |
| 11     | a*                   | %                | 5.5 ± 0.2     | 5.5 ± 0.2   | 5.5 ± 0.2   | 5.5 ± 0.2   | 5.5 ± 0.2   | 5.5 ± 0.2   | 5.5 ± 0.2   | 5.5 ± 0.2   | 5.5 ± 0.2   |
| 12     | b*                   | %                | -11.7 ± 0.2   | -11.7 ± 0.2 | -11.7 ± 0.2 | -11.7 ± 0.2 | -11.7 ± 0.2 | -11.7 ± 0.2 | -11.7 ± 0.2 | -11.7 ± 0.2 | -11.7 ± 0.2 |
| 14     | Cobb (60 Secs)       | g/m <sup>2</sup> | 25.0 (Max)    | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  | 25.0 (Max)  |
| 15     | Wax Pick             |                  | 10 A" Clear   | 10 A" Clear | 10 A" Clear | 10 A" Clear | 10 A" Clear | 10 A"       | 10 A"       | 10 A" Clear | 10 A" Clear |

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