

**Monthly Performance Report
(HWT-NG100-MPR-48-R0)**

**July 2020
(From 01/07/2020 to 31/07/2020)**

**100 TPD Municipal Solid Waste (MSW) Facility
Calangute, North Goa**

Prepared By
**Hindustan Waste Treatment Pvt. Ltd.
(HWT)**

Submitted To
**Goa Waste Management Corporation (GWMC)
Department of Science & Technology (DS&T)**

Table – 1
Summary of Overall Average Results for July 2020
(As compared to Schedule – 7: Performance Standards, Volume – I of RFP)

| Sr. No. | Parameter | Performance Standard As per Schedule – 7 | Actual Performance at Plant (Monthly Average) |
|---------|--|---|--|
| 1. | Number of fractions of recyclables sorted per day from the input mixed waste | Minimum 10 numbers of fractions shall be sorted daily from the input dry waste as received in the facility. The list of fractions are as follows: 1. PET Bottles 2. Mixed Plastic Articles 3. Newspapers / other Paper Material 4. Cardboard 5. Styrofoam & Thermocol 6. Coconut Shells 7. Clothes 8. Rubber Articles 9. Metal Articles & Cans 10. E-waste Articles and any Hazardous Waste | More than 10 numbers of fractions are being sorted daily from the input dry waste as received in the facility. The list of fractions are as follows: 1. Glass 2. Aluminium 3. Metal 4. Tetra Pack 5. Hard Plastic 6. PET 7. Mixed Plastic 8. Styrofoam + Thermocol 9. Cloth + Rags + Textile 10. Leather + Rexine + Rubber 11. Paper + Cardboard 12. Coconut Shells |
| 2. | Quantum of reject/residues to be sent to the landfill after processing. No organic fraction shall be disposed in the landfill. | Maximum 10% of inert of the total input waste as received in the facility (in TPD). | Input waste to the Plant is 82.62 TPD . Quantum of Inert is 0.34 TPD which is < 10% of the Total Input Waste as received in the Facility. No Organic Waste has been disposed in the Sanitary Landfill Facility. |
| 3. | Electricity generation in the Plant | Minimum electricity to be generated in the plant shall be 0.40 MW per 100 tons of input wet biodegradable waste as received in the Facility (in TPD). | Electricity generation is 0.47 MW/100 MT of Input Biodegradable Waste as received in the Facility (in TPD). |
| 4. | Biogas Flaring System | The Biogas Flaring System shall strictly be used only in case of emergency and not as a routine practice. | Biogas is being flared strictly, only under emergency and not as a routine practice. The average running time of Biogas Flaring System is 0.00 hours/day . |

| Sr. No. | Parameter | Performance Standard As per Schedule – 7 | Actual Performance at Plant (Monthly Average) | | | | | | | | | | |
|---------|---|---|---|----|------|-----|--------|-----|---------|-----|--------|-----|------------|
| 5. | Discharge of treated effluent conforming to regulatory norms | Effluent Treatment Plant shall be operated under all conditions. | Effluent Treatment Plant is being operated continuously and is meeting all statutory conditions. The Treated Effluent Characteristics are as follows: <table border="1" data-bbox="1032 520 1435 730"> <tr> <td>pH</td> <td>6.97</td> </tr> <tr> <td>BOD</td> <td>7 mg/l</td> </tr> <tr> <td>COD</td> <td>70 mg/l</td> </tr> <tr> <td>TSS</td> <td>8 mg/l</td> </tr> <tr> <td>TDS</td> <td>1,744 mg/l</td> </tr> </table> | pH | 6.97 | BOD | 7 mg/l | COD | 70 mg/l | TSS | 8 mg/l | TDS | 1,744 mg/l |
| pH | 6.97 | | | | | | | | | | | | |
| BOD | 7 mg/l | | | | | | | | | | | | |
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| TSS | 8 mg/l | | | | | | | | | | | | |
| TDS | 1,744 mg/l | | | | | | | | | | | | |
| 6. | General Housekeeping, hygienic conditions, cleanliness, safety norms, adequate manpower, treatment methodology for plant operation & maintenance and storage conditions in the plant. | Minimum housekeeping, safety norms and cleanliness conditions shall be maintained at all times as per the Bid Document requirement. | <ul style="list-style-type: none"> • High standard of Housekeeping, Cleanliness and Safety are being maintained at all times at the Plant. • Adequate manpower has been deployed in all shifts. • Also, the treatment methodology is being followed properly and proper storage conditions have been maintained in the Plant. | | | | | | | | | | |

Table – 1: Summary of Average Results for July 2020

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

| # | Plant Performance Data: July 2020 | | |
|---------|-----------------------------------|--|-----------|
| Sr. No. | Content | Month | Signature |
| 1 | Input Waste Composition | From 01.07.2020 To 31.07.2020 | |
| 2 | Recyclables | | |
| 3 | Electricity Generation | | |
| 4 | Biogas Flare | | |
| 5 | Effluent Treatment Plant | | |
| 6 | Inert | | |
| 7 | Housekeeping | | |

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

| 1 WASTE: | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---------------------------|------|-------|-------|-------|-------|-------|--------|-------|--------------------|---------|-------|--------|--------|--------|--------|--------|---------------------|--------|---------|--------|--------|-------|-------|
| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul | | |
| 1.1 Input Waste: | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Type 1: Dry Waste | TPD | 29.60 | 38.42 | 35.33 | 30.69 | 14.14 | 30.77 | 34.71 | 30.52 | 35.33% | 25.24 | 45.38 | 29.70 | 24.02 | 16.12 | 30.82 | 30.82 | 28.87 | 33.54% | 29.67 | 32.14 | 24.73 | 29.11 |
| 2 | Type 2: Wet Waste | TPD | 33.06 | 39.33 | 35.74 | 35.35 | 27.43 | 39.87 | 32.62 | 34.77 | 40.25% | 32.18 | 22.84 | 35.72 | 34.95 | 38.66 | 36.61 | 38.72 | 34.24 | 39.78% | 34.24 | 37.59 | 38.22 | 28.78 |
| 3 | Type 3: Mixed Waste | TPD | 14.61 | 17.85 | 16.81 | 17.74 | 14.83 | 22.70 | 15.17 | 17.10 | 19.79% | 19.72 | 1.49 | 14.30 | 23.96 | 8.81 | 23.84 | 20.28 | 16.06 | 18.65% | 16.25 | 16.81 | 11.61 | 19.15 |
| 4 | Type 4: Tree Waste | TPD | 3.81 | 1.86 | 3.00 | 3.05 | 3.35 | 7.33 | 5.58 | 4.00 | 4.63% | 4.77 | 8.95 | 2.81 | 8.26 | 7.26 | 10.21 | 6.14 | 6.91 | 8.03% | 1.87 | 3.23 | 6.26 | 1.18 |
| 5 | Total.....(1)+(2)+(3)+(4) | TPD | 81.08 | 97.46 | 90.88 | 86.83 | 59.75 | 100.67 | 88.08 | 86.39 | 100.00% | 81.91 | 78.66 | 82.53 | 91.19 | 70.85 | 101.48 | 95.96 | 86.08 | 100.00% | 82.03 | 89.77 | 80.82 | 78.22 |

- # Note:
 1 Type-I: Dry Waste: This has 25-30% Organic and 70-75% Inorganic.
 2 Type-II: Wet Waste: This has 65-70% Organic and 30-35%
 3 Type-I: Mixed Waste: This has 45-50% Organic and 50-55% Inorganic.

| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul | | |
|----------------------|-----------------------|------|-------|-------|-------|-------|-------|--------|-------|--------------------|--------|-------|--------|--------|--------|--------|--------|---------------------|--------|--------|--------|--------|-------|-------|
| 1.2 Output Products: | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Organic Fraction | TPD | 37.95 | 46.58 | 43.07 | 41.84 | 29.52 | 46.94 | 38.82 | 40.67 | 47.08% | 38.49 | 27.11 | 39.31 | 41.98 | 35.32 | 45.20 | 44.41 | 38.83 | 45.11% | 39.99 | 41.80 | 38.28 | 36.71 |
| 2 | Inorganic Fraction: | | | | | | | | | | | | | | | | | | | | | | | |
| | Recyclables | TPD | 5.93 | 6.80 | 6.57 | 5.75 | 3.92 | 6.65 | 5.91 | 5.93 | 6.87% | 5.65 | 5.12 | 5.73 | 5.71 | 4.50 | 6.74 | 6.25 | 5.67 | 6.59% | 5.95 | 6.51 | 5.46 | 5.75 |
| | RDF | TPD | 31.43 | 41.02 | 35.84 | 34.67 | 22.27 | 38.30 | 35.69 | 34.17 | 39.56% | 31.62 | 36.07 | 33.07 | 33.87 | 23.03 | 36.97 | 38.04 | 33.24 | 38.61% | 32.22 | 36.82 | 28.87 | 33.54 |
| | Bulking Material | TPD | 0.93 | 1.20 | 1.31 | 1.03 | 0.69 | 1.46 | 0.95 | 1.08 | 1.25% | 0.86 | 1.02 | 0.96 | 1.38 | 0.74 | 1.38 | 1.12 | 1.07 | 1.24% | 1.12 | 1.41 | 0.89 | 1.05 |
| | Inert | TPD | 1.03 | 0.00 | 1.09 | 0.49 | 0.00 | 0.00 | 1.13 | 0.53 | 0.62% | 0.51 | 0.39 | 0.65 | 0.00 | 0.00 | 0.99 | 0.00 | 0.36 | 0.42% | 0.88 | 0.00 | 1.06 | 0.00 |
| 3 | Tree Waste | TPD | 3.81 | 1.86 | 3.00 | 3.05 | 3.35 | 7.33 | 5.58 | 4.00 | 4.63% | 4.77 | 8.95 | 2.81 | 8.26 | 7.26 | 10.21 | 6.14 | 6.91 | 8.03% | 1.87 | 3.23 | 6.26 | 1.18 |
| | Total.....(1)+(2)+(3) | TPD | 81.08 | 97.46 | 90.88 | 86.83 | 59.75 | 100.67 | 88.08 | 86.39 | 100% | 81.91 | 78.66 | 82.53 | 91.19 | 70.85 | 101.48 | 95.96 | 86.08 | 100% | 82.03 | 89.77 | 80.82 | 78.22 |

| 2 RECYCLABLES: | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|--------|--------|--------|--------|--------|---------------------|--------|--------|--------|--------|
| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
| 1 | Glass | Kg | 77 | 105 | 114 | 84 | 56 | 112 | 83 | 90 | 77 | 70 | 104 | 100 | 76 | 119 | 90 | 91 | 104 | 87 | 112 | 77 |
| 2 | Aluminum | Kg | 62 | 86 | 44 | 50 | 51 | 56 | 74 | 60 | 54 | 56 | 72 | 75 | 32 | 55 | 81 | 61 | 64 | 87 | 52 | 46 |
| 3 | Metal | Kg | 124 | 172 | 141 | 134 | 85 | 159 | 157 | 139 | 139 | 125 | 128 | 133 | 108 | 173 | 135 | 134 | 152 | 156 | 134 | 116 |
| 4 | Tetra Pack | Kg | 62 | 76 | 44 | 42 | 28 | 75 | 50 | 54 | 77 | 70 | 56 | 66 | 32 | 46 | 81 | 61 | 72 | 87 | 52 | 46 |
| 5 | Hard Plastic | Kg | 155 | 163 | 167 | 142 | 107 | 121 | 124 | 140 | 93 | 70 | 128 | 149 | 76 | 183 | 162 | 123 | 144 | 87 | 149 | 139 |
| 6 | PET | Kg | 139 | 163 | 88 | 117 | 56 | 149 | 149 | 123 | 100 | 119 | 136 | 133 | 127 | 146 | 153 | 131 | 144 | 173 | 149 | 139 |
| 7 | Mixed Plastic | Kg | 5,231 | 5,937 | 5,897 | 5,119 | 3,497 | 5,880 | 5,189 | 5,250 | 5,076 | 4,559 | 5,030 | 5,009 | 3,993 | 5,933 | 5,488 | 5,013 | 5,218 | 5,755 | 4,735 | 5,131 |
| 8 | Thermocol + Styrofoam | Kg | 77 | 96 | 79 | 59 | 39 | 93 | 83 | 75 | 39 | 56 | 80 | 41 | 51 | 82 | 63 | 59 | 48 | 78 | 75 | 54 |
| 9 | Cloth + Rags + Textiles | Kg | 464 | 488 | 545 | 494 | 446 | 924 | 734 | 585 | 440 | 446 | 654 | 730 | 432 | 767 | 683 | 593 | 465 | 788 | 664 | 747 |
| 10 | Leather + Rexine + Rubber | Kg | 703 | 927 | 439 | 637 | 513 | 915 | 429 | 652 | 748 | 495 | 765 | 581 | 534 | 630 | 826 | 654 | 553 | 528 | 693 | 732 |
| 11 | Paper + Cardboard | Kg | 487 | 593 | 554 | 586 | 350 | 579 | 528 | 525 | 471 | 439 | 526 | 581 | 426 | 612 | 575 | 519 | 489 | 580 | 514 | 493 |
| 12 | Coconut | Kg | 448 | 612 | 756 | 444 | 344 | 877 | 421 | 557 | 393 | 579 | 430 | 796 | 318 | 767 | 548 | 547 | 633 | 831 | 380 | 555 |

- # Note:
 1 Item No. 9 (Cloth + Rags + Textiles) and 10 (Leather + Rexine + Rubber) are sent to Cement Plants as RDF.
 2 Item No. 11 (Paper + Cardboard) and 12 (Coconut) are used as Bulking Material in Composting.

| 3 DISPOSAL OF INERT: | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------------|------|-------|-------|-------|-------|-------|--------|-------|--------------------|-------|-------|--------|--------|--------|--------|--------|---------------------|--------|--------|--------|--------|
| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
| 1 As per Tender: Maximum 10% of Inerts of the Total Input Waste (excluding Mulched Tree Waste) as received in the Facility. | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Input Waste | TPD | 81.08 | 97.46 | 90.88 | 86.83 | 59.75 | 100.67 | 88.08 | 86.39 | 81.91 | 78.66 | 82.53 | 91.19 | 70.85 | 101.48 | 95.96 | 86.08 | 82.03 | 89.77 | 80.82 | 78.22 |
| 3 | Inert Fraction | TPD | 1.03 | 0.00 | 1.09 | 0.49 | 0.00 | 0.00 | 1.13 | 0.53 | 0.51 | 0.39 | 0.65 | 0.00 | 0.00 | 0.99 | 0.00 | 0.36 | 0.88 | 0.00 | 1.06 | 0.00 |
| 4 | % of Total Input Waste.....(3) ÷ (2) | % | 1.27% | 0.00% | 1.20% | 0.56% | 0.00% | 0.00% | 1.28% | 0.62% | 0.62% | 0.50% | 0.79% | 0.00% | 0.00% | 0.98% | 0.00% | 0.41% | 1.07% | 0.00% | 1.31% | 0.00% |

| 4 ELECTRICITY GENERATION: | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|--------|--------|--------|--------|--------|---------------------|--------|--------|--------|--------|
| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
| 3.1 Biogas Gensets: | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Biogas Genset-I: Running Time | hr/day | 2.25 | 0.75 | 0.85 | 0.00 | 0.60 | 0.00 | 0.00 | 0.64 | 0.00 | 3.60 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 2.40 | 1.80 | 1.20 |
| 2 | Biogas Genset-I: Biogas Consumption | Nm ³ /day | 178 | 61 | 58 | 0 | 44 | 0 | 0 | 49 | 0 | 313 | 0 | 0 | 0 | 42 | 0 | 51 | 0 | 156 | 162 | 107 |
| 3 | Biogas Genset-I: Energy Generation | kW.hr/day | 260 | 100 | 80 | 0 | 60 | 0 | 0 | 71 | 0 | 520 | 0 | 0 | 0 | 60 | 0 | 83 | 0 | 210 | 290 | 190 |
| 4 | Biogas Genset-II: Running Time | hr/day | 23.55 | 23.79 | 22.00 | 23.90 | 23.65 | 23.88 | 22.30 | 23.30 | 23.95 | 22.80 | 21.30 | 23.95 | 23.13 | 22.18 | 23.68 | 23.00 | 22.05 | 20.16 | 22.24 | 16.23 |
| 5 | Biogas Genset-II: Biogas Consumption | Nm ³ /day | 1,999 | 1,975 | 1,851 | 2,078 | 2,078 | 2,078 | 1,899 | 1,994 | 2,083 | 1,977 | 1,874 | 1,968 | 2,036 | 1,908 | 2,036 | 1,983 | 1,857 | 1,794 | 1,868 | 1,364 |
| 6 | Biogas Genset-II: Energy Generation | kW.hr/day | 3,700 | 3,890 | 3,550 | 4,050 | 3,980 | 4,010 | 3,620 | 3,829 | 4,060 | 3,720 | 3,580 | 3,550 | 3,990 | 3,720 | 3,910 | 3,790 | 3,450 | 3,570 | 3,680 | 2,700 |
| 7 | Total Biogas Consumption = (2)+(5) | Nm ³ /day | 2,177 | 2,035 | 1,908 | 2,078 | 2,122 | 2,078 | 1,899 | 2,042 | 2,083 | 2,290 | 1,874 | 1,968 | 2,036 | 1,950 | 2,036 | 2,034 | 1,857 | 1,950 | 2,030 | 1,470 |
| 8 | Total Energy Generation = (3)+(6) | kW.hr/day | 3,960 | 3,990 | 3,630 | 4,050 | 4,040 | 4,010 | 3,620 | 3,900 | 4,060 | 4,240 | 3,580 | 3,550 | 3,990 | 3,780 | 3,910 | 3,873 | 3,450 | 3,780 | 3,970 | 2,890 |

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
|------------------------------------|--|-----------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|--------|--------|--------|--------|--------|---------------------|--------|--------|--------|--------|
| 3.2 Electricity Generation: | | | | | | | | | | | | | | | | | | | | | | |
| 1 | As per Tender: Minimum electricity to be generated in the plant shall be 0.4 MW per 100 tons of Input Biodegradable Waste as received in the Facility. | MW/100 MT | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| 2 | Biodegradable Waste = 1.2.2 | TPD | 33.06 | 39.33 | 35.74 | 35.35 | 27.43 | 39.87 | 32.62 | 34.77 | 32.18 | 22.84 | 35.72 | 34.95 | 38.66 | 36.61 | 38.72 | 34.24 | 34.24 | 37.59 | 38.22 | 28.78 |
| 3 | Guaranteed Electricity Generation = (3.2.2 x 3.2.1) ÷ 100 | kW | 0.13 | 0.16 | 0.14 | 0.14 | 0.11 | 0.16 | 0.13 | 0.14 | 0.13 | 0.09 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.14 | 0.15 | 0.15 | 0.12 | |
| 4 | Guaranteed Electricity Generation = 3.2.3 x 24 x 1000 | kW.hr/day | 3,174 | 3,776 | 3,431 | 3,394 | 2,633 | 3,828 | 3,132 | 3,338 | 3,089 | 2,193 | 3,429 | 3,355 | 3,711 | 3,515 | 3,717 | 3,287 | 3,287 | 3,609 | 3,669 | 2,763 |
| 5 | Available Electricity Generation = (A2 ÷ 24) + (A4 ÷ 24) | kW | 165 | 166 | 151 | 169 | 168 | 167 | 151 | 163 | 169 | 177 | 149 | 148 | 166 | 158 | 163 | 161 | 144 | 158 | 165 | 120 |
| 6 | Available Electricity Generation = 3.2.5 ÷ 100 | MW/100 MT | 0.50 | 0.42 | 0.42 | 0.48 | 0.61 | 0.42 | 0.46 | 0.47 | 0.53 | 0.77 | 0.42 | 0.42 | 0.43 | 0.43 | 0.42 | 0.49 | 0.42 | 0.42 | 0.43 | 0.42 |
| | | kW | 165 | 166 | 151 | 169 | 168 | 167 | 151 | | 169 | 177 | 149 | 148 | 166 | 158 | 163 | | 144 | 158 | 165 | 120 |
| | | kW.hr/day | 786 | 214 | 199 | 656 | 1,407 | 182 | 488 | | 971 | 2,047 | 151 | 195 | 279 | 265 | 193 | | 163 | 171 | 301 | 127 |

| 5 BIOGAS FLARE: | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|----------------|----------------------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|--------|--------|--------|--------|--------|---------------------|--------|--------|--------|--------|
| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
| 1 | Operation Time | hr/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | Biogas Flared | Nm ³ /day | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 6 DIGESTERS: | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|--------------------------|--------|--------|-------|--------|--------|--------|--------|--------------------|--------|--------|--------|--------|--------|--------|--------|---------------------|--------|--------|--------|--------|
| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
| 5.1 Digester-I: Front End | | | | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.64 | 7.73 | | 7.70 | 7.74 | 7.74 | 7.70 | 7.71 | 7.73 | 7.71 | | 7.71 | 7.69 | 7.70 | 7.71 | 7.71 | 7.71 | 7.74 | | 7.70 |
| 2 | TSS | ppm | 35,000 | 35,325 | | 37,529 | 35,628 | 38,185 | 36,850 | 36,420 | 38,257 | 39,983 | | 34,756 | 33,965 | 33,766 | 35,692 | 36,070 | 35,295 | 36,126 | | 36,079 |
| 3 | VSS | ppm | 29,049 | 22,920 | | 27,423 | 25,614 | 24,749 | 23,687 | 25,574 | 24,412 | 26,331 | | 22,413 | 21,468 | 22,368 | 21,577 | 23,095 | 23,861 | 25,158 | | 20,598 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 7,800 | 7,925 | | 7,750 | 8,075 | 8,000 | 7,925 | 7,913 | 8,075 | 8,075 | | 7,975 | 7,950 | 7,875 | 7,850 | 7,967 | 7,850 | 7,950 | | 7,825 |
| 5 | VFA | ppm as HAC | 1,585 | 1,668 | | 1,502 | 1,336 | 1,419 | 1,502 | 1,502 | 1,502 | 1,502 | | 1,419 | 1,336 | 1,419 | 1,336 | 1,419 | 1,253 | 1,336 | | 1,419 |
| 5.2 Digester-I: Back End | | | | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.69 | 7.71 | | 7.74 | 7.75 | 7.78 | 7.74 | 7.74 | 7.79 | 7.77 | | 7.73 | 7.76 | 7.74 | 7.75 | 7.76 | 7.75 | 7.78 | | 7.74 |
| 2 | TSS | ppm | 37,908 | 30,427 | | 36,954 | 37,908 | 37,353 | 36,951 | 36,250 | 36,629 | 37,838 | | 33,291 | 34,528 | 34,588 | 35,898 | 35,462 | 34,709 | 35,015 | | 34,401 |
| 3 | VSS | ppm | 22,746 | 17,819 | | 23,507 | 25,178 | 24,537 | 23,482 | 22,878 | 23,394 | 23,455 | | 21,375 | 23,045 | 21,046 | 21,306 | 22,270 | 24,025 | 24,956 | | 25,178 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 7,950 | 8,050 | | 7,875 | 8,050 | 8,100 | 8,175 | 8,033 | 8,225 | 8,125 | | 8,050 | 8,100 | 8,100 | 7,975 | 8,096 | 7,975 | 8,100 | | 8,000 |
| 5 | VFA | ppm as HAC | 1,502 | 1,502 | | 1,253 | 1,170 | 1,170 | 1,170 | 1,295 | 1,253 | 1,336 | | 1,170 | 1,336 | 1,170 | 1,087 | 1,225 | 1,087 | 1,170 | | 1,253 |
| 5.3 Buffer Tank: Front End | | | | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.77 | 7.83 | | 7.78 | 7.79 | 7.80 | 7.77 | 7.79 | 7.80 | 7.78 | | 7.82 | 7.81 | 7.77 | 7.73 | 7.79 | 7.78 | 7.75 | | 7.78 |
| 2 | TSS | ppm | 33,500 | 31,379 | | 30,934 | 30,586 | 32,342 | 36,093 | 32,472 | 36,215 | 38,644 | | 32,355 | 30,048 | 32,008 | 32,635 | 33,651 | 32,242 | 32,136 | | 30,825 |
| 3 | VSS | ppm | 18,520 | 18,070 | | 19,188 | 19,637 | 22,451 | 23,955 | 20,304 | 23,876 | 26,595 | | 19,635 | 20,349 | 20,418 | 18,095 | 21,495 | 21,948 | 22,380 | | 18,089 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 9,000 | 8,900 | | 9,050 | 9,000 | 8,900 | 8,850 | 8,950 | 8,825 | 8,925 | | 9,050 | 9,075 | 8,800 | 8,750 | 8,904 | 8,750 | 8,800 | | 9,000 |
| 5 | VFA | ppm as HAC | 921 | 921 | | 921 | 755 | 755 | 838 | 852 | 838 | 755 | | 755 | 921 | 755 | 672 | 783 | 672 | 755 | | 755 |
| 5.4 Buffer Tank: Back End | | | | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.78 | 7.79 | | 7.79 | 7.82 | 7.82 | 7.80 | 7.80 | 7.84 | 7.80 | | 7.79 | 7.74 | 7.81 | 7.79 | 7.80 | 7.82 | 7.81 | | 7.82 |
| 2 | TSS | ppm | 32,917 | 29,952 | | 32,293 | 32,355 | 30,125 | 36,030 | 32,279 | 35,511 | 35,841 | | 33,027 | 30,439 | 33,204 | 34,579 | 33,767 | 34,242 | 34,838 | | 32,283 |
| 3 | VSS | ppm | 19,570 | 17,133 | | 22,954 | 19,635 | 19,657 | 24,431 | 20,563 | 22,792 | 23,009 | | 19,968 | 20,163 | 19,636 | 20,405 | 20,996 | 23,591 | 21,541 | | 19,303 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 8,900 | 9,000 | | 8,950 | 9,050 | 9,000 | 8,925 | 8,971 | 8,925 | 9,050 | | 8,950 | 8,750 | 9,000 | 8,825 | 8,917 | 8,850 | 8,925 | | 8,925 |
| 5 | VFA | ppm as HAC | 755 | 838 | | 838 | 755 | 755 | 672 | 769 | 755 | 672 | | 589 | 682 | 672 | 672 | 674 | 589 | 672 | | 755 |
| 5.5 Digester-II: Front End | | | | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.70 | 7.64 | | 7.67 | 7.71 | 7.68 | 7.66 | 7.68 | 7.68 | 7.68 | | 7.67 | 7.71 | 7.68 | 7.64 | 7.68 | 7.63 | 7.65 | | 7.63 |
| 2 | TSS | ppm | 38,406 | 36,599 | | 38,263 | 32,396 | 38,243 | 40,412 | 37,387 | 41,590 | 41,818 | | 36,337 | 40,106 | 36,981 | 37,943 | 39,129 | 37,992 | 37,136 | | 36,949 |
| 3 | VSS | ppm | 25,872 | 25,895 | | 29,842 | 20,799 | 26,897 | 30,276 | 26,597 | 28,300 | 28,823 | | 24,582 | 29,830 | 23,724 | 24,331 | 26,598 | 25,093 | 25,380 | | 22,877 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 7,950 | 7,825 | | 7,600 | 7,850 | 7,800 | 7,750 | 7,796 | 7,725 | 7,800 | | 7,660 | 7,925 | 7,675 | 7,550 | 7,723 | 7,650 | 7,600 | | 7,575 |
| 5 | VFA | ppm as HAC | 1,502 | 1,585 | | 1,668 | 1,087 | 1,585 | 1,585 | 1,502 | 1,668 | 1,585 | | 1,502 | 1,419 | 1,585 | 1,502 | 1,544 | 1,419 | 1,502 | | 1,585 |
| 5.6 Digester-II: Back End | | | | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.73 | 7.69 | | 7.71 | 7.66 | 7.70 | 7.69 | 7.70 | 7.72 | 7.71 | | 7.70 | 7.66 | 7.70 | 7.68 | 7.70 | 7.67 | 7.70 | | 7.68 |
| 2 | TSS | ppm | 37,549 | 34,928 | | 39,477 | 40,412 | 37,180 | 39,197 | 38,124 | 41,030 | 40,106 | | 35,461 | 32,442 | 35,348 | 36,024 | 36,735 | 38,310 | 36,127 | | 36,697 |
| 3 | VSS | ppm | 23,315 | 24,495 | | 29,218 | 30,276 | 25,596 | 28,562 | 26,910 | 28,004 | 29,830 | | 23,788 | 20,437 | 22,396 | 23,596 | 24,675 | 25,694 | 35,305 | | 25,789 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 8,100 | 8,000 | | 7,825 | 7,750 | 7,925 | 7,975 | 7,929 | 7,850 | 7,925 | | 7,825 | 7,850 | 7,725 | 7,675 | 7,808 | 7,725 | 7,750 | | 7,750 |
| 5 | VFA | ppm as HAC | 1,336 | 1,419 | | 1,419 | 1,585 | 1,419 | 1,419 | 1,433 | 1,419 | 1,419 | | 1,253 | 1,170 | 1,336 | 1,253 | 1,308 | 1,170 | 1,253 | | 1,336 |

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
|--------------------------------------|----------------------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|--------|--------|--------|--------|--------|---------------------|--------|--------|--------|--------|
| 7 EFFLUENT TREATMENT PLANT: | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
| 6.1 Raw Effluent Quality: | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Flow | m ³ /day | 17.26 | 36.25 | | 44.63 | 45.05 | 54.62 | 30.16 | 38.00 | 44.00 | 54.99 | | 61.13 | 62.63 | 54.14 | 59.85 | 56.12 | 41.42 | 45.36 | | 57.91 |
| 2 | pH | --- | 6.62 | 6.86 | | 6.86 | 6.88 | 6.53 | 7.49 | 6.87 | 6.93 | 6.56 | | 7.88 | 6.36 | 6.75 | 7.30 | 6.96 | 7.69 | 6.81 | | 7.14 |
| 3 | Biochemical Oxygen Demand (BOD5) | mg/l | 2,132 | 2,467 | | 1,720 | 2,354 | 2,091 | 1,575 | 2,057 | 1,936 | 2,209 | | 1,917 | 1,951 | 2,024 | 1,777 | 1,969 | 2,491 | 2,492 | | 1,551 |
| 4 | Chemical Oxygen Demand (COD) | mg/l | 5,117 | 5,033 | | 4,455 | 5,038 | 7,109 | 5,198 | 5,325 | 6,447 | 6,804 | | 5,636 | 4,214 | 6,821 | 6,006 | 5,988 | 7,274 | 5,208 | | 5,289 |
| 5 | Total Suspended Solids (TSS) | mg/l | 4,264 | 5,921 | | 3,612 | 5,061 | 4,475 | 3,418 | 4,459 | 4,801 | 5,147 | | 3,240 | 3,629 | 4,028 | 3,749 | 4,099 | 3,861 | 5,682 | | 3,722 |
| 6 | Total Dissolve Solids (TDS) | mg/l | 1,622 | 1,618 | | 1,541 | 1,569 | 1,618 | 1,716 | 1,614 | 1,601 | 1,585 | | 1,799 | 1,687 | 1,568 | 1,781 | 1,670 | 1,585 | 1,553 | | 1,507 |
| 6.2 Treated Effluent Quality: | | | | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 6.84 | 7.42 | | 7.32 | 6.63 | 7.10 | 7.26 | 7.10 | 7.30 | 6.61 | | 6.61 | 7.25 | 7.43 | 7.28 | 7.08 | 6.87 | 7.07 | | 7.44 |
| 2 | Biochemical Oxygen Demand (BOD5) | mg/l | 6 | 9 | | 9 | 7 | 9 | 7 | 8 | 6 | 5 | | 9 | 8 | 8 | 7 | 7 | 5 | 8 | | 9 |
| 3 | Chemical Oxygen Demand (COD) | mg/l | 68 | 85 | | 70 | 74 | 81 | 68 | 74 | 59 | 56 | | 54 | 69 | 75 | 79 | 65 | 85 | 81 | | 69 |
| 4 | Total Suspended Solids (TSS) | mg/l | 7 | 10 | | 10 | 8 | 10 | 8 | 9 | 7 | 6 | | 10 | 9 | 9 | 8 | 8 | 6 | 9 | | 10 |
| 5 | Total Dissolve Solids (TDS) | mg/l | 1,736 | 1,650 | | 1,680 | 1,663 | 1,731 | 1,870 | 1,722 | 1,697 | 1,664 | | 1,961 | 1,704 | 1,568 | 1,888 | 1,747 | 1,585 | 1,631 | | 1,567 |

| 8 HOUSEKEEPING: | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-----------------------|------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|---------------------|----------|----------|----------|----------|
| Sr. No. | Description | Unit | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | Weekly Average 1-7 | 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | Weekly Average 8-14 | 15-Jul | 16-Jul | 17-Jul | 18-Jul |
| 1 | Hygienic Conditions | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 2 | Cleanliness | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 3 | Manpower Deployed | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 4 | Safety Norms | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 5 | Treatment Methodology | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 6 | Storage Conditions | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

| 1 WASTE: | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---------------------------|------|--------|--------|--------|----------------------|---------|--------|--------|--------|--------|--------|--------|--------|----------------------|---------|--------|--------|--------|----------------------|---------|----------------------|---------|
| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | | Monthly Average 1-31 | |
| 1.1 Input Waste: | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Type 1: Dry Waste | TPD | 19.41 | 33.95 | 26.38 | 27.91 | 35.79% | 49.80 | 26.05 | 39.38 | 23.13 | 22.22 | 32.84 | 34.10 | 32.50 | 40.27% | 30.47 | 36.88 | 35.06 | 34.14 | 42.13% | 30.36 | 36.74% |
| 2 | Type 2: Wet Waste | TPD | 15.73 | 19.64 | 32.79 | 29.57 | 37.92% | 31.74 | 32.63 | 36.32 | 32.35 | 30.29 | 31.55 | 33.84 | 32.67 | 40.48% | 43.36 | 39.42 | 37.44 | 40.07 | 49.46% | 33.52 | 40.56% |
| 3 | Type 3: Mixed Waste | TPD | 11.84 | 21.86 | 20.04 | 16.79 | 21.53% | 0.00 | 14.07 | 8.01 | 17.81 | 9.12 | 15.84 | 12.48 | 11.05 | 13.69% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% | 13.77 | 16.67% |
| 4 | Type 4: Tree Waste | TPD | 2.08 | 5.05 | 6.30 | 3.71 | 4.76% | 3.97 | 8.08 | 2.82 | 2.03 | 4.62 | 5.62 | 4.34 | 4.50 | 5.57% | 4.29 | 13.77 | 2.38 | 6.81 | 8.41% | 4.98 | 6.02% |
| 5 | Total.....(1)+(2)+(3)+(4) | TPD | 49.06 | 80.50 | 85.51 | 77.99 | 100.00% | 85.51 | 80.83 | 86.53 | 75.32 | 66.25 | 85.85 | 84.76 | 80.72 | 100.00% | 78.12 | 90.07 | 74.88 | 81.02 | 100.00% | 82.62 | 100.00% |

- # Note:
 1 Type-I: Dry Waste: This has 25-30% Organic and 70-75% Inorganic.
 2 Type-II: Wet Waste: This has 65-70% Organic and 30-35%
 3 Type-I: Mixed Waste: This has 45-50% Organic and 50-55% Inorganic.

| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | | Monthly Average 1-31 | |
|----------------------|-----------------------|------|--------|--------|--------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|--------|--------|--------|----------------------|--------|----------------------|--------|
| 1.2 Output Products: | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Organic Fraction | TPD | 21.03 | 32.92 | 38.64 | 35.62 | 45.68% | 35.50 | 36.03 | 40.24 | 37.15 | 30.86 | 39.01 | 37.08 | 36.55 | 45.28% | 37.09 | 35.72 | 34.45 | 35.75 | 44.13% | 37.71 | 45.64% |
| 2 | Inorganic Fraction: | | | | | | | | | | | | | | | | | | | | | | |
| | Recyclables | TPD | 3.30 | 5.65 | 5.81 | 5.49 | 7.04% | 5.79 | 5.30 | 5.94 | 5.28 | 4.57 | 5.47 | 5.77 | 5.45 | 6.75% | 5.33 | 5.77 | 5.36 | 5.49 | 6.77% | 5.62 | 6.80% |
| | RDF | TPD | 22.13 | 35.80 | 33.45 | 31.83 | 40.82% | 37.83 | 30.32 | 36.40 | 29.83 | 25.32 | 34.50 | 35.81 | 32.86 | 40.71% | 30.08 | 33.42 | 31.66 | 31.72 | 39.15% | 32.90 | 39.82% |
| | Bulking Material | TPD | 0.52 | 1.08 | 1.31 | 1.05 | 1.35% | 1.33 | 0.97 | 1.12 | 1.03 | 0.88 | 1.25 | 0.99 | 1.08 | 1.34% | 1.19 | 1.11 | 1.03 | 1.11 | 1.37% | 1.07 | 1.30% |
| | Inert | TPD | 0.00 | 0.00 | 0.00 | 0.28 | 0.36% | 1.09 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.29 | 0.35% | 0.14 | 0.28 | 0.00 | 0.14 | 0.17% | 0.34 | 0.42% |
| 3 | Tree Waste | TPD | 2.08 | 5.05 | 6.30 | 3.71 | 4.76% | 3.97 | 8.08 | 2.82 | 2.03 | 4.62 | 5.62 | 4.34 | 4.50 | 5.57% | 4.29 | 13.77 | 2.38 | 6.81 | 8.41% | 4.98 | 6.02% |
| | Total.....(1)+(2)+(3) | TPD | 49.06 | 80.50 | 85.51 | 77.99 | 100% | 85.51 | 80.83 | 86.53 | 75.32 | 66.25 | 85.85 | 84.76 | 80.72 | 100% | 78.12 | 90.07 | 74.88 | 81.02 | 100% | 82.62 | 100% |

| 2 RECYCLABLES: | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------------------|------|--------|--------|--------|----------------------|--|--------|--------|--------|--------|--------|--------|--------|----------------------|--|--------|--------|--------|----------------------|--|----------------------|--|
| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | | Monthly Average 1-31 | |
| 1 | Glass | Kg | 52 | 83 | 103 | 88 | | 90 | 109 | 126 | 103 | 86 | 120 | 88 | 103 | | 96 | 114 | 73 | 94 | | 93 | |
| 2 | Aluminum | Kg | 47 | 68 | 48 | 59 | | 49 | 44 | 75 | 51 | 49 | 56 | 40 | 52 | | 52 | 53 | 65 | 57 | | 58 | |
| 3 | Metal | Kg | 80 | 113 | 127 | 125 | | 163 | 109 | 151 | 125 | 123 | 136 | 129 | 134 | | 133 | 130 | 145 | 136 | | 133 | |
| 4 | Tetra Pack | Kg | 38 | 53 | 63 | 59 | | 57 | 44 | 42 | 59 | 37 | 64 | 64 | 52 | | 52 | 61 | 73 | 62 | | 57 | |
| 5 | Hard Plastic | Kg | 94 | 91 | 119 | 118 | | 139 | 80 | 142 | 73 | 105 | 136 | 161 | 119 | | 74 | 99 | 145 | 106 | | 123 | |
| 6 | PET | Kg | 52 | 113 | 87 | 122 | | 90 | 73 | 109 | 81 | 99 | 80 | 145 | 97 | | 133 | 76 | 116 | 108 | | 117 | |
| 7 | Mixed Plastic | Kg | 2,894 | 5,093 | 5,196 | 4,860 | | 5,161 | 4,765 | 5,224 | 4,727 | 4,037 | 4,822 | 5,075 | 4,830 | | 4,718 | 5,188 | 4,676 | 4,861 | | 4,976 | |
| 8 | Thermocol + Styrofoam | Kg | 42 | 38 | 71 | 58 | | 41 | 73 | 75 | 59 | 37 | 56 | 72 | 59 | | 74 | 46 | 65 | 62 | | 63 | |
| 9 | Cloth + Rags + Textiles | Kg | 296 | 619 | 444 | 575 | | 489 | 575 | 712 | 447 | 462 | 530 | 788 | 572 | | 428 | 435 | 413 | 425 | | 566 | |
| 10 | Leather + Rexine + Rubber | Kg | 268 | 415 | 713 | 557 | | 424 | 720 | 695 | 630 | 598 | 690 | 450 | 601 | | 650 | 443 | 660 | 584 | | 613 | |
| 11 | Paper + Cardboard | Kg | 287 | 460 | 547 | 481 | | 522 | 487 | 561 | 440 | 431 | 530 | 563 | 505 | | 450 | 458 | 471 | 460 | | 503 | |
| 12 | Coconut | Kg | 235 | 619 | 760 | 573 | | 807 | 480 | 561 | 594 | 444 | 722 | 426 | 576 | | 738 | 656 | 558 | 651 | | 572 | |

- # Note:
 1 Item No. 9 (Cloth + Rags + Textiles) and 10 (Leather + Rexine + Rubber) are sent to Cement Plants as RDF.
 2 Item No. 11 (Paper + Cardboard) and 12 (Coconut) are used as Bulking Material in Composting.

| 3 DISPOSAL OF INERT: | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------------|------|--------|--------|--------|----------------------|--|--------|--------|--------|--------|--------|--------|--------|----------------------|--|--------|--------|--------|----------------------|--|----------------------|--|
| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | | Monthly Average 1-31 | |
| 1 As per Tender: Maximum 10% of Inerts of the Total Input Waste (excluding Mulched Tree Waste) as received in the Facility. | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Input Waste | TPD | 49.06 | 80.50 | 85.51 | 77.99 | | 85.51 | 80.83 | 86.53 | 75.32 | 66.25 | 85.85 | 84.76 | 80.72 | | 78.12 | 90.07 | 74.88 | 81.02 | | 82.62 | |
| 3 | Inert Fraction | TPD | 0.00 | 0.00 | 0.00 | 0.28 | | 1.09 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.29 | | 0.14 | 0.28 | 0.00 | 0.14 | | 0.34 | |
| 4 | % of Total Input Waste.....(3) ÷ (2) | % | 0.00% | 0.00% | 0.00% | 0.34% | | 1.27% | 0.17% | 0.00% | 0.00% | 0.00% | 0.00% | 0.91% | 0.34% | | 0.18% | 0.31% | 0.00% | 0.16% | | 0.42% | |

| 4 ELECTRICITY GENERATION: | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------------------------------------|----------------------|--------|--------|--------|----------------------|--|--------|--------|--------|--------|--------|--------|--------|----------------------|--|--------|--------|--------|----------------------|--|----------------------|--|
| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | | Monthly Average 1-31 | |
| 3.1 Biogas Gensets: | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Biogas Genset-I: Running Time | hr/day | 1.15 | 1.40 | 0.00 | 1.14 | | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.40 | 3.45 | 0.59 | | 7.81 | 11.50 | 3.00 | 7.44 | | 1.39 | |
| 2 | Biogas Genset-I: Biogas Consumption | Nm ³ /day | 105 | 133 | 0 | 95 | | 0 | 12 | 0 | 0 | 0 | 25 | 312 | 50 | | 552 | 829 | 209 | 530 | | 106 | |
| 3 | Biogas Genset-I: Energy Generation | kW.hr/day | 180 | 210 | 0 | 154 | | 0 | 10 | 0 | 0 | 0 | 20 | 520 | 78.57 | | 770 | 1,190 | 290 | 750 | | 160 | |
| 4 | Biogas Genset-II: Running Time | hr/day | 23.15 | 14.62 | 19.28 | 19.68 | | 22.95 | 23.15 | 21.54 | 23.70 | 19.00 | 18.75 | 20.10 | 21.31 | | 22.27 | 21.95 | 22.45 | 22.22 | | 21.86 | |
| 5 | Biogas Genset-II: Biogas Consumption | Nm ³ /day | 2,008 | 1,213 | 1,716 | 1,688 | | 1,830 | 2,008 | 1,874 | 2,094 | 1,577 | 1,631 | 1,684 | 1,814 | | 1,938 | 1,810 | 1,864 | 1,870 | | 1,870 | |
| 6 | Biogas Genset-II: Energy Generation | kW.hr/day | 3,910 | 2,390 | 3,380 | 3,297 | | 3,230 | 3,870 | 3,730 | 3,980 | 3,060 | 3,230 | 2,990 | 3,441 | | 3,720 | 3,180 | 3,690 | 3,530 | | 3,584 | |
| 7 | Total Biogas Consumption = (2)+(5) | Nm ³ /day | 2,113 | 1,346 | 1,716 | 1,783 | | 1,830 | 2,019 | 1,874 | 2,094 | 1,577 | 1,656 | 1,996 | 1,864 | | 2,490 | 2,640 | 2,072 | 2,401 | | 1,976 | |
| 8 | Total Energy Generation = (3)+(6) | kW.hr/day | 4,090 | 2,600 | 3,380 | 3,451 | | 3,230 | 3,880 | 3,730 | 3,980 | 3,060 | 3,250 | 3,510 | 3,520 | | 4,490 | 4,370 | 3,980 | 4,280 | | 3,744 | |

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | Monthly Average 1-31 |
|------------------------------------|--|-----------|--------|--------|--------|----------------------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|--------|--------|----------------------|----------------------|
| 3.2 Electricity Generation: | | | | | | | | | | | | | | | | | | | |
| 1 | As per Tender: Minimum electricity to be generated in the plant shall be 0.4 MW per 100 tons of Input Biodegradable Waste as received in the Facility. | MW/100 MT | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| 2 | Biodegradable Waste = 1.2.2 | TPD | 15.73 | 19.64 | 32.79 | 29.57 | 31.74 | 32.63 | 36.32 | 32.35 | 30.29 | 31.55 | 33.84 | 32.67 | 43.36 | 39.42 | 37.44 | 40.07 | 33.52 |
| 3 | Guaranteed Electricity Generation = (3.2.2 x 3.2.1) ÷ 100 | kW | 0.06 | 0.08 | 0.13 | 0.12 | 0.13 | 0.13 | 0.15 | 0.13 | 0.12 | 0.13 | 0.14 | 0.13 | 0.17 | 0.16 | 0.15 | 0.16 | 0.14 |
| 4 | Guaranteed Electricity Generation = 3.2.3 x 24 x 1000 | kW.hr/day | 1,510 | 1,885 | 3,148 | 2,839 | 3,047 | 3,132 | 3,487 | 3,106 | 2,908 | 3,029 | 3,249 | 3,137 | 4,163 | 3,784 | 3,594 | 3,847 | 3,218 |
| 5 | Available Electricity Generation = (A2 ÷ 24) + (A4 ÷ 24) | kW | 170 | 108 | 141 | 144 | 135 | 162 | 155 | 166 | 128 | 135 | 146 | 147 | 187 | 182 | 166 | 178 | 156 |
| 6 | Available Electricity Generation = 3.2.5 ÷ 100 | MW/100 MT | 1.08 | 0.55 | 0.43 | 0.54 | 0.42 | 0.50 | 0.43 | 0.51 | 0.42 | 0.43 | 0.43 | 0.45 | 0.43 | 0.46 | 0.44 | 0.45 | 0.47 |
| | | kW | 170 | 108 | 141 | | 135 | 162 | 155 | 166 | 128 | 135 | 146 | | 187 | 182 | 166 | | 156 |
| | | kW.hr/day | 2,580 | 715 | 232 | | 183 | 748 | 243 | 874 | 152 | 221 | 261 | | 327 | 586 | 386 | | |

| 5 BIOGAS FLARE: | | | | | | | | | | | | | | | | | | | |
|------------------------|----------------|----------------------|--------|--------|--------|----------------------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|--------|--------|----------------------|----------------------|
| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | Monthly Average 1-31 |
| 1 | Operation Time | hr/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | Biogas Flared | Nm ³ /day | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 |

| 6 DIGESTERS: | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|--------------------------|--------|--------|--------|----------------------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|--------|--------|----------------------|----------------------|
| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | Monthly Average 1-31 |
| 5.1 Digester-I: Front End | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.68 | 7.70 | 7.72 | 7.71 | 7.69 | 7.70 | | 7.72 | 7.66 | 7.70 | 7.69 | 7.69 | 7.73 | 7.70 | | 7.70 | 7.70 |
| 2 | TSS | ppm | 35,621 | 30,912 | 32,901 | 34,489 | 35,148 | 30,383 | | 33,216 | 32,037 | 29,259 | 30,921 | 31,827 | 31,580 | 32,779 | | 31,273 | 34,016 |
| 3 | VSS | ppm | 21,035 | 19,760 | 21,461 | 21,979 | 22,180 | 23,730 | | 21,489 | 20,458 | 18,415 | 19,721 | 20,999 | 20,367 | 21,051 | | 20,111 | 22,351 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 7,875 | 7,850 | 7,825 | 7,863 | 7,900 | 7,925 | | 7,950 | 8,075 | 8,075 | 7,850 | 7,963 | 7,950 | 7,925 | | 7,953 | 7,931 |
| 5 | VFA | ppm as HAC | 1,253 | 1,170 | 1,253 | 1,281 | 1,170 | 1,253 | | 1,336 | 1,502 | 1,419 | 1,502 | 1,364 | 1,585 | 1,502 | | 1,474 | 1,408 |
| 5.2 Digester-I: Back End | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.74 | 7.77 | 7.76 | 7.76 | 7.73 | 7.75 | | 7.77 | 7.74 | 7.72 | 7.74 | 7.74 | 7.77 | 7.75 | | 7.74 | 7.75 |
| 2 | TSS | ppm | 33,489 | 30,919 | 32,136 | 33,445 | 28,978 | 31,753 | | 32,483 | 36,954 | 29,925 | 29,968 | 31,677 | 30,028 | 33,345 | | 30,989 | 33,564 |
| 3 | VSS | ppm | 22,265 | 19,824 | 20,804 | 22,842 | 17,527 | 22,952 | | 20,196 | 23,507 | 18,721 | 18,357 | 20,210 | 19,654 | 21,427 | | 19,674 | 21,575 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 8,075 | 7,975 | 7,900 | 8,004 | 7,950 | 8,050 | | 8,100 | 7,875 | 8,175 | 8,000 | 8,025 | 8,100 | 8,025 | | 8,065 | 8,045 |
| 5 | VFA | ppm as HAC | 1,253 | 1,087 | 1,004 | 1,142 | 1,087 | 1,087 | | 1,087 | 1,253 | 1,087 | 1,253 | 1,142 | 1,336 | 1,336 | | 1,231 | 1,207 |
| 5.3 Buffer Tank: Front End | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.79 | 7.77 | 7.80 | 7.78 | 7.74 | 7.78 | | 7.73 | 7.80 | 7.79 | 7.78 | 7.77 | 7.79 | 7.77 | | 7.78 | 7.78 |
| 2 | TSS | ppm | 30,825 | 26,384 | 29,137 | 30,258 | 30,439 | 30,385 | | 30,058 | 30,215 | 28,490 | 28,964 | 29,759 | 29,657 | 31,498 | | 29,674 | 24,670 |
| 3 | VSS | ppm | 18,089 | 16,304 | 18,668 | 19,246 | 20,163 | 21,972 | | 19,673 | 20,876 | 18,165 | 18,324 | 19,862 | 18,963 | 20,658 | | 19,194 | 20,020 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 9,200 | 8,800 | 8,725 | 8,879 | 8,750 | 8,825 | | 8,650 | 8,825 | 8,650 | 8,700 | 8,733 | 8,650 | 8,425 | | 8,632 | 8,820 |
| 5 | VFA | ppm as HAC | 838 | 589 | 589 | 700 | 682 | 672 | | 672 | 838 | 672 | 755 | 715 | 672 | 755 | | 714 | 753 |
| 5.4 Buffer Tank: Back End | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.79 | 7.78 | 7.78 | 7.80 | 7.77 | 7.80 | | 7.82 | 7.78 | 7.81 | 7.81 | 7.80 | 7.81 | 7.80 | | 7.81 | 7.80 |
| 2 | TSS | ppm | 29,657 | 26,728 | 29,579 | 31,221 | 30,558 | 30,092 | | 31,017 | 30,385 | 27,271 | 27,406 | 29,455 | 29,993 | 31,067 | | 29,038 | 31,152 |
| 3 | VSS | ppm | 18,963 | 17,071 | 18,803 | 19,879 | 19,520 | 20,026 | | 20,358 | 21,972 | 17,035 | 17,630 | 19,424 | 19,734 | 19,843 | | 18,733 | 19,919 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 8,650 | 8,700 | 8,750 | 8,800 | 8,700 | 8,675 | | 8,675 | 8,825 | 8,725 | 8,600 | 8,700 | 8,750 | 8,550 | | 8,665 | 8,811 |
| 5 | VFA | ppm as HAC | 672 | 589 | 672 | 658 | 589 | 755 | | 672 | 672 | 589 | 672 | 658 | 672 | 755 | | 669 | 686 |
| 5.5 Digester-II: Front End | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.67 | 7.62 | 7.66 | 7.64 | 7.63 | 7.64 | | 7.63 | 7.66 | 7.71 | 7.71 | 7.66 | 7.69 | 7.67 | | 7.69 | 7.67 |
| 2 | TSS | ppm | 38,310 | 30,105 | 32,336 | 35,471 | 30,473 | 32,995 | | 32,634 | 32,442 | 28,704 | 29,709 | 31,160 | 32,008 | 38,313 | | 31,979 | 35,025 |
| 3 | VSS | ppm | 25,694 | 19,695 | 20,559 | 23,216 | 18,573 | 20,478 | | 21,438 | 20,437 | 17,249 | 17,568 | 19,291 | 21,038 | 25,052 | | 20,040 | 23,148 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 7,725 | 7,725 | 7,750 | 7,671 | 7,700 | 7,700 | | 7,750 | 7,850 | 7,950 | 7,700 | 7,775 | 7,850 | 7,725 | | 7,800 | 7,753 |
| 5 | VFA | ppm as HAC | 1,170 | 1,336 | 1,419 | 1,405 | 1,419 | 1,502 | | 1,502 | 1,170 | 1,502 | 1,585 | 1,447 | 1,585 | 1,668 | | 1,557 | 1,491 |
| 5.6 Digester-II: Back End | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 7.65 | 7.66 | 7.71 | 7.68 | 7.66 | 7.69 | | 7.67 | 7.67 | 7.74 | 7.73 | 7.69 | 7.74 | 7.69 | | 7.72 | 7.70 |
| 2 | TSS | ppm | 33,313 | 30,622 | 32,396 | 34,578 | 32,442 | 34,366 | | 33,792 | 38,310 | 29,007 | 31,035 | 33,159 | 31,962 | 39,977 | | 33,028 | 35,125 |
| 3 | VSS | ppm | 26,125 | 20,388 | 20,799 | 25,683 | 20,437 | 21,023 | | 22,320 | 25,694 | 19,095 | 18,634 | 21,201 | 20,388 | 26,620 | | 21,188 | 23,931 |
| 4 | Total Alkalinity | ppm as CaCO ₃ | 7,675 | 7,900 | 7,850 | 7,775 | 7,850 | 7,850 | | 7,900 | 7,725 | 8,150 | 7,925 | 7,900 | 8,000 | 7,875 | | 7,970 | 7,877 |
| 5 | VFA | ppm as HAC | 1,585 | 1,170 | 1,087 | 1,267 | 1,170 | 1,170 | | 1,170 | 1,170 | 1,087 | 1,170 | 1,156 | 1,170 | 1,253 | | 1,167 | 1,266 |

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | Monthly Average 1-31 |
|--------------------------------------|----------------------------------|---------------------|--------|--------|--------|----------------------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|--------|--------|----------------------|----------------------|
| 7 EFFLUENT TREATMENT PLANT: | | | | | | | | | | | | | | | | | | | |
| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | Monthly Average 1-31 |
| 6.1 Raw Effluent Quality: | | | | | | | | | | | | | | | | | | | |
| 1 | Flow | m ³ /day | 63.24 | 62.31 | 63.15 | 55.57 | 62.05 | 61.36 | | 62.45 | 56.46 | 54.94 | 56.44 | 58.95 | 54.99 | 63.63 | | 59.31 | 53.59 |
| 2 | pH | --- | 6.62 | 7.39 | 7.53 | 7.20 | 7.77 | 7.51 | | 7.90 | 7.04 | 7.54 | 7.39 | 7.53 | 6.96 | 7.58 | | 7.27 | 7.17 |
| 3 | Biochemical Oxygen Demand (BOD5) | mg/l | 1,587 | 1,972 | 1,599 | 1,949 | 1,504 | 1,737 | | 1,564 | 2,408 | 2,039 | 1,972 | 1,871 | 2,297 | 1,644 | | 1,971 | 1,963 |
| 4 | Chemical Oxygen Demand (COD) | mg/l | 5,396 | 5,522 | 3,486 | 5,363 | 5,114 | 4,742 | | 3,378 | 6,285 | 4,873 | 4,950 | 4,890 | 4,824 | 4,620 | | 4,722 | 5,258 |
| 5 | Total Suspended Solids (TSS) | mg/l | 2,682 | 3,905 | 2,686 | 3,756 | 2,978 | 3,839 | | 3,159 | 5,298 | 4,527 | 4,555 | 4,059 | 5,099 | 3,091 | | 4,095 | 4,094 |
| 6 | Total Dissolve Solids (TDS) | mg/l | 1,759 | 1,726 | 1,723 | 1,642 | 1,576 | 1,691 | | 1,620 | 1,527 | 1,757 | 1,684 | 1,643 | 1,709 | 1,766 | | 1,738 | 1,661 |
| 6.2 Treated Effluent Quality: | | | | | | | | | | | | | | | | | | | |
| 1 | pH | --- | 6.72 | 7.02 | 6.78 | 6.98 | 7.30 | 7.48 | | 7.11 | 6.58 | 6.71 | 6.75 | 6.99 | 6.75 | 6.66 | | 6.71 | 6.97 |
| 2 | Biochemical Oxygen Demand (BOD5) | mg/l | 7 | 6 | 7 | 7 | 8 | 6 | | 5 | 9 | 8 | 5 | 7 | 6 | 5 | | 6 | 7 |
| 3 | Chemical Oxygen Demand (COD) | mg/l | 89 | 58 | 77 | 77 | 56 | 73 | | 55 | 57 | 53 | 89 | 64 | 89 | 50 | | 70 | 70 |
| 4 | Total Suspended Solids (TSS) | mg/l | 8 | 7 | 8 | 8 | 9 | 7 | | 6 | 10 | 9 | 6 | 8 | 7 | 6 | | 7 | 8 |
| 5 | Total Dissolve Solids (TDS) | mg/l | 1,777 | 1,761 | 1,861 | 1,697 | 1,576 | 1,691 | | 1,701 | 1,558 | 1,757 | 1,836 | 1,687 | 1,794 | 1,943 | | 1,869 | 1,744 |

| 8 HOUSEKEEPING: | | | | | | | | | | | | | | | | | | | |
|------------------------|-----------------------|------|----------|----------|----------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------------------|----------|----------|----------|----------------------|----------------------|
| Sr. No. | Description | Unit | 19-Jul | 20-Jul | 21-Jul | Weekly Average 15-21 | 22-Jul | 23-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | Weekly Average 22-28 | 29-Jul | 30-Jul | 31-Jul | Weekly Average 29-31 | Monthly Average 1-31 |
| 1 | Hygienic Conditions | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 2 | Cleanliness | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 3 | Manpower Deployed | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 4 | Safety Norms | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 5 | Treatment Methodology | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |
| 6 | Storage Conditions | --- | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted | Accepted |