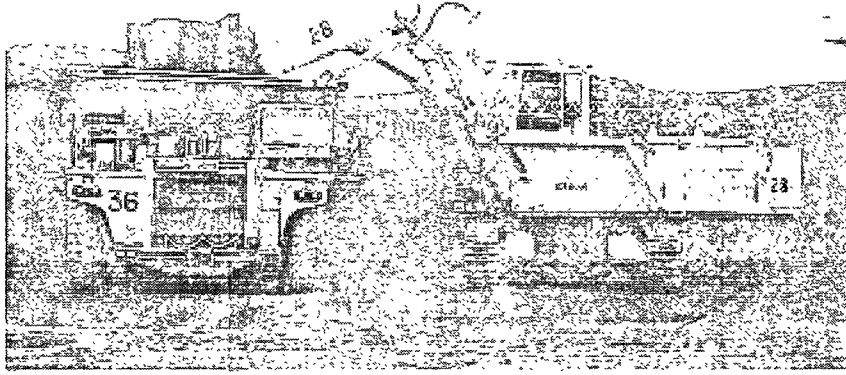


# आर.एम.डी. इन्फॉर्मेटिक्स



JULY'2018



द्वारा प्रकाशित:  
पीपीसी विभाग  
राँ मटेरियल्स डिवीजन  
भारतीय इस्पात प्राधिकरण

## CONTENTS

| <u>SERIAL NO.</u> | <u>SUBJECT</u>                         | <u>PAGE NO.</u> |
|-------------------|--|-----------------|
| 1                 | EXCERPT                                | 1               |
| 2                 | IRON ORE MINES - PRODUCTION & DESPATCH | 2-3             |
| 3                 | EXCAVATION                             | 4               |
| 4                 | MONTHWISE PERFORMANCES                 | 5-7             |
| 5                 | DESPATCH DISTRIBUTION                  | 8-13            |
| 6                 | FLUX MINES OPERATION                   | 14-15           |
| 7                 | QUALITY ANALYSED AT PLANT              | 16-29           |
| 8                 | EQUIPMENT AVAILABILITY & UTILISATION   | 30-35           |
| 9                 | TECHNO ECONOMIC PERFORMANCE            | 36-40           |
| 10                | MINE LEASE RENEWAL                     | 41-42A          |
| 11                | MANPOWER STATISTICS                    | 43              |
| 12                | ACCIDENT STATISTICS                    | 44-44A          |
| 13                | CSR ACTIVITIES                         | -               |
| 14                | CUSTOMER INTERFACE                     | 45-48           |
| 15                | FREIGHT                                | 49              |

## Excerpt

For the month of July'2018

➤ **Production :**

- ❖ 84% APP fulfillment in Total Production by RMD Mines. 97%, 86%, 89% & 95% APP fulfillment in production by Kirirburu, Meghahatuburu, Bolani & Gua Mines respectively.
- ❖ 88% & 82% APP fulfillment in Lump & Fines Production Respectively by RMD Mines.
- ❖ 79% APP fulfillment in Flux production. 82% & 64% APP fulfillment in production by Kuteshwar & Tulsidamer Flux Mines respectively.

➤ **Despatch :**

- ❖ 84% APP fulfillment in despatch of iron ore and 84% APP fulfillment in Flux despatch by RMD Mines.
- ❖ 90% & 80% APP fulfillment in Lump & Fines Despatch Respectively by RMD Mines.
- ❖ 80% & 103% APP fulfillment in Flux despatch by Kuteshwar Limestone & Tulsidamar Dolomite mines respectively.

### Details of Rake Despatched

| MINES | COMM | July'18 | TILL 2018-19 |
|-------|------|---------|--------------|
| KBR   | L    | 24      | 93           |
|       | F    | 64      | 256          |
| MBR   | L    | 23      | 95.90        |
|       | F    | 52      | 240.10       |
| BOL   | L    | 54.24   | 193.44       |
|       | F    | 48.76   | 351.56       |
| BAR   | L    | 15      | 35           |
|       | F    | 32      | 56           |
| TAL   | L    | 9       | 42           |
|       | F    | 4       | 26           |
| KAL   | L    | 13      | 73           |
|       | F    | 4       | 64           |
| GUA   | L    | 27.06   | 119.96       |
|       | F    | 68.94   | 245.04       |
| MPR   | L    | 6       | 33.20        |
|       | F    | 7       | 20.80        |
| RMD   | L    | 171.30  | 685.50       |
|       | F    | 310.70  | 1259.50      |
| TOTAL |      | 482     | 1945         |

| PLANT | COMM  | July'18 | TILL 2018-19 |
|-------|-------|---------|--------------|
| BSL   | L     | 55.35   | 208.14       |
|       | F     | 89.65   | 372.86       |
| DSP   | L     | 29.79   | 142.14       |
|       | F     | 67.21   | 272.86       |
| RSP   | L     | 54      | 208.80       |
|       | F     | 78      | 327.20       |
| ISP   | L     | 32.16   | 126.22       |
|       | F     | 75.84   | 282.78       |
| BSP   | L     | 0       | 0            |
|       | F     | 0       | 4            |
| TOTAL | L     | 171.30  | 685.50       |
|       | F     | 310.70  | 1259.50      |
|       | TOTAL | 482     | 1945         |

**IRON ORE MINES OPERATIONS (FINISHED PRODUCT)**

**July 2018**

UNIT 000 TONNES

| PRODUCTION                |   |         |           |      |     |                        |                           |                |      |     |            |               |           |
|---------------------------|---|---------|-----------|------|-----|------------------------|---------------------------|----------------|------|-----|------------|---------------|-----------|
| MINE &<br>RATED<br>CAP    |   | PLAN    | FOR MONTH |      |     |                        | GRTH %                    | TILL THE MONTH |      |     |            | GRTH %        | CAP       |
|                           |   | 2018-19 | TGT       | ACT  | %FF | LAST<br>YR<br>Jul 2017 | OVER<br>LSTYR<br>Jul 2017 | TGT            | ACT  | %FF | LAST<br>YR | OVER<br>LSTYR | UTLN<br>% |
| KIRIBURU<br>5500          | L | 1300    | 105       | 87   | 82  | 94                     | -7.9                      | 450            | 320  | 71  | 399        | -19.9         |           |
|                           | F | 3000    | 215       | 224  | 104 | 250                    | -10.6                     | 1005           | 981  | 98  | 953        | 2.9           |           |
|                           | T | 4300    | 320       | 310  | 97  | 344                    | -9.9                      | 1455           | 1300 | 89  | 1353       | -3.9          | 71        |
| MEGHAHA<br>TUBURU<br>5000 | L | 1150    | 100       | 87   | 87  | 92                     | -5.2                      | 420            | 325  | 77  | 288        | 12.8          |           |
|                           | F | 2750    | 180       | 154  | 86  | 169                    | -8.5                      | 930            | 825  | 89  | 714        | 15.6          |           |
|                           | T | 3900    | 280       | 242  | 86  | 261                    | -7.3                      | 1350           | 1150 | 85  | 1002       | 14.8          | 69        |
| BOLANI<br>6500            | L | 2250    | 180       | 193  | 107 | 121                    | 59.6                      | 720            | 656  | 91  | 603        | 8.8           |           |
|                           | F | 3950    | 320       | 252  | 79  | 193                    | 30.5                      | 1270           | 1038 | 82  | 971        | 7.0           |           |
|                           | T | 6200    | 500       | 445  | 89  | 314                    | 41.7                      | 1990           | 1695 | 85  | 1574       | 7.7           | 78        |
| BARSUA<br>3000            | L | 680     | 80        | 46   | 58  |                        |                           | 80             | 120  | 150 |            |               |           |
|                           | F | 1370    | 120       | 85   | 71  |                        |                           | 120            | 281  | 234 |            |               |           |
|                           | T | 2050    | 200       | 132  | 66  |                        |                           | 200            | 401  | 201 |            |               | 40        |
| TALDIH<br>1000            | L | 420     | 30        | 29   | 95  | 25                     | 14.1                      | 185            | 135  | 73  | 114        | 18.4          |           |
|                           | F | 480     | 40        | 15   | 38  |                        |                           | 95             | 94   | 99  |            |               |           |
|                           | T | 900     | 70        | 44   | 62  | 25                     | 74.9                      | 280            | 230  | 82  | 114        | 101.1         | 69        |
| KALTA<br>2500             | L | 1000    | 80        | 49   | 61  | 51                     | -5.0                      | 360            | 265  | 74  | 205        | 29.0          |           |
|                           | F | 1200    | 60        | 16   | 27  | 19                     | -13.7                     | 320            | 222  | 69  | 163        | 36.1          |           |
|                           | T | 2200    | 140       | 65   | 46  | 70                     | -7.3                      | 680            | 487  | 72  | 368        | 32.1          | 58        |
| GUA<br>4000               | L | 1000    | 80        | 96   | 120 | 70                     | 37.3                      | 360            | 378  | 105 | 335        | 12.9          |           |
|                           | F | 3200    | 260       | 226  | 87  | 253                    | -10.6                     | 1050           | 952  | 91  | 957        | -0.6          |           |
|                           | T | 4200    | 340       | 323  | 95  | 323                    | -0.2                      | 1410           | 1330 | 94  | 1292       | 2.9           | 100       |
| MANOHAR -<br>PUR<br>1500  | L | 350     | 30        | 19   | 63  |                        |                           | 120            | 115  | 96  | 92         | 25.7          |           |
|                           | F | 400     | 25        | 27   | 110 |                        |                           | 135            | 85   | 63  | 38         | 123.6         | 23        |
|                           | T | 750     | 55        | 46   | 84  |                        |                           | 255            | 200  | 79  | 130        | 54.3          |           |
| TOTAL<br>29000            | L | 8150    | 685       | 606  | 88  | 454                    | 33.5                      | 2695           | 2314 | 86  | 2036       | 13.7          |           |
|                           | F | 16350   | 1220      | 1001 | 82  | 884                    | 13.2                      | 4925           | 4478 | 91  | 3797       | 18.0          |           |
|                           | T | 24500   | 1905      | 1606 | 84  | 1337                   | 20.1                      | 7620           | 6793 | 89  | 5833       | 16.5          | 70        |

**IRON ORE MINES OPERATIONS (FINISHED PRODUCT)**

**July 2018**

**UNIT 000 TONNES**

| DESPATCHES        |   |         |               |      |     |                |                           |                |      |     |            |               |                 |              |            |
|-------------------|---|---------|---------------|------|-----|----------------|---------------------------|----------------|------|-----|------------|---------------|-----------------|--------------|------------|
| MINE              |   | PLAN    | FOR THE MONTH |      |     |                | GRTH %                    | TILL THE MONTH |      |     |            | GRTH %        | STOCKS AT MINES |              |            |
|                   |   | 2018-19 | TGT           | ACT  | %FF | LAST           | OVER<br>LSTYR<br>Jul 2017 | TGT            | ACT  | %FF | LAST<br>YR | OVER<br>LSTYR | AS ON           |              |            |
|                   |   |         |               |      |     | YR<br>Jul 2017 |                           |                |      |     |            |               | YEAR<br>BEGN.   | MTH<br>BEGN. | MTH<br>END |
| KIRIBURU          | L | 1300    | 105           | 87   | 83  | 96             | -9.6                      | 450            | 334  | 74  | 392        | -14.8         | 28              | 10           | 8          |
|                   | F | 3000    | 230           | 222  | 97  | 203            | 9.3                       | 1110           | 918  | 83  | 875        | 4.9           | 1021            | 1083         | 1074       |
|                   | T | 4300    | 335           | 309  | 92  | 299            | 3.3                       | 1560           | 1252 | 80  | 1267       | -1.2          | 1049            | 1093         | 1082       |
| MEGHAHA<br>TUBURU | L | 1150    | 100           | 86   | 86  | 98             | -12.3                     | 450            | 353  | 78  | 348        | 1.5           | 101             | 70           | 70         |
|                   | F | 2750    | 260           | 190  | 73  | 202            | -6.0                      | 1070           | 879  | 82  | 716        | 22.7          | 552             | 519          | 459        |
|                   | T | 3900    | 360           | 277  | 77  | 301            | -8.0                      | 1520           | 1232 | 81  | 1064       | 15.8          | 653             | 589          | 529        |
| BOLANI            | L | 2250    | 180           | 196  | 109 | 131            | 49.3                      | 745            | 695  | 93  | 611        | 13.6          | 133             | 96           | 90         |
|                   | F | 3950    | 340           | 278  | 82  | 202            | 37.6                      | 1350           | 1225 | 91  | 980        | 25.1          | 1522            | 1355         | 1329       |
|                   | T | 6200    | 520           | 474  | 91  | 333            | 42.2                      | 2095           | 1920 | 92  | 1591       | 20.7          | 1655            | 1451         | 1419       |
| BARSUA            | L | 680     | 80            | 50   | 62  |                |                           | 80             | 110  | 137 |            |               | 15              | 29           | 25         |
|                   | F | 1370    | 120           | 110  | 92  |                |                           | 120            | 192  | 160 |            |               | 194             | 195          | 169        |
|                   | T | 2050    | 200           | 160  | 80  |                |                           | 200            | 302  | 151 |            |               | 209             | 224          | 194        |
| TALDIH            | L | 420     | 30            | 32   | 107 | 25             | 26.1                      | 185            | 139  | 75  | 121        | 15.1          | 9               | 11           | 5          |
|                   | F | 480     | 40            | 14   | 35  |                |                           | 95             | 88   | 93  |            |               | 9               | 9            | 14         |
|                   | T | 900     | 70            | 46   | 66  | 25             | 81.9                      | 280            | 227  | 81  | 121        | 88.2          | 18              | 20           | 19         |
| KALTA             | L | 1000    | 80            | 47   | 58  | 50             | -6.8                      | 360            | 263  | 73  | 205        | 28.3          | 12              | 12           | 14         |
|                   | F | 1200    | 60            | 14   | 24  | 33             | -56.0                     | 320            | 228  | 71  | 174        | 30.7          | 13              | 6            | 7          |
|                   | T | 2200    | 140           | 61   | 44  | 83             | -26.3                     | 680            | 490  | 72  | 379        | 29.4          | 25              | 18           | 21         |
| GUA               | L | 1000    | 80            | 100  | 125 | 57             | 76.0                      | 360            | 413  | 115 | 308        | 34.0          | 30              | 19           | 17         |
|                   | F | 3200    | 260           | 214  | 82  | 214            | -0.3                      | 1050           | 766  | 73  | 839        | -8.7          | 161             | 100          | 97         |
|                   | T | 4200    | 340           | 313  | 92  | 271            | 15.7                      | 1410           | 1179 | 84  | 1147       | 2.7           | 191             | 119          | 114        |
| MANOHAR -<br>PUR  | L | 350     | 30            | 22   | 74  |                |                           | 120            | 116  | 97  | 92         | 26.7          |                 | 7            | 4          |
|                   | F | 400     | 25            | 27   | 106 |                |                           | 135            | 81   | 60  | 32         | 153.1         | 5               | 3            | 4          |
|                   | T | 750     | 55            | 49   | 88  |                |                           | 255            | 197  | 77  | 124        | 59.5          | 5               | 10           | 8          |
| TOTAL             | L | 8150    | 685           | 620  | 90  | 458            | 35.2                      | 2750           | 2422 | 88  | 2076       | 16.7          | 328             | 254          | 233        |
|                   | F | 16350   | 1335          | 1069 | 80  | 854            | 25.1                      | 5250           | 4377 | 83  | 3616       | 21.0          | 3477            | 3270         | 3153       |
|                   | T | 24500   | 2020          | 1688 | 84  | 1313           | 28.6                      | 8000           | 6799 | 85  | 5692       | 19.4          | 3805            | 3524         | 3386       |

# IRON ORE MINES PERFORMANCE (ROM & DEVELOPMENT)

July 2018

UNIT 000 TE

| DEVELOPMENT   |           |     |     |            |      |     |      |        |
|---------------|-----------|-----|-----|------------|------|-----|------|--------|
|               | FOR MONTH |     |     | TILL MONTH |      |     | LAST | GRTH % |
|               | TGT       | ACT | %FF | TGT        | ACT  | %FF | YR   | LSTYR  |
| KIRIBURU      | 145       | 34  | 23  | 784        | 462  | 59  | 602  | -23    |
| MEGHAHATUBURU | 300       | 174 | 58  | 1390       | 1152 | 83  | 1344 | -14    |
| BOLANI        | 330       | 156 | 47  | 1481       | 991  | 67  | 1046 | -5     |
| BARSUA        | 80        | 16  | 20  | 410        | 55   | 13  | 5    | 939    |
| TALDIH        | 30        | 4   | 14  | 60         | 65   | 109 | 126  | -48    |
| KALTA         | 0         | 0   |     | 0          | 0    |     | 0    |        |
| GUA           | 150       | 105 | 70  | 950        | 471  | 50  | 413  | 14     |
| MANOHARPUR    | 0         | 0   |     | 0          | 1    |     | 0    |        |
| TOTAL         | 1035      | 489 | 47  | 5075       | 3197 | 63  | 3537 | -9.6   |

| ROM           |      |      |     |      |      |     |      |    |
|---------------|------|------|-----|------|------|-----|------|----|
| KIRIBURU      | 350  | 310  | 89  | 1485 | 1300 | 88  | 1353 | -4 |
| MEGHAHATUBURU | 370  | 316  | 85  | 1440 | 1175 | 82  | 1052 | 12 |
| BOLANI        | 500  | 450  | 90  | 1990 | 1711 | 86  | 1620 | 6  |
| BARSUA        | 240  | 141  | 59  | 538  | 411  | 76  | 0    |    |
| TALDIH        | 70   | 71   | 102 | 280  | 338  | 121 | 289  | 17 |
| KALTA         | 140  | 89   | 64  | 680  | 491  | 72  | 396  | 24 |
| GUA           | 340  | 323  | 95  | 1410 | 1330 | 94  | 1292 | 3  |
| MANOHARPUR    | 55   | 46   | 84  | 255  | 200  | 79  | 130  | 54 |
| TOTAL         | 2065 | 1746 | 85  | 8078 | 6957 | 86  | 6132 | 13 |

| TOTAL EXCAVATION |      |      |    |       |       |     |      |      |
|------------------|------|------|----|-------|-------|-----|------|------|
| KIRIBURU         | 495  | 344  | 69 | 2269  | 1762  | 78  | 1954 | -10  |
| MEGHAHATUBURU    | 670  | 490  | 73 | 2830  | 2326  | 82  | 2397 | 3    |
| BOLANI           | 830  | 606  | 73 | 3471  | 2702  | 78  | 2666 | 1    |
| BARSUA           | 320  | 157  | 49 | 948   | 466   | 49  | 5    | 8683 |
| TALDIH           | 100  | 75   | 75 | 340   | 404   | 119 | 415  | -3   |
| KALTA            | 140  | 89   | 64 | 680   | 491   | 72  | 396  | 24   |
| GUA              | 490  | 427  | 87 | 2360  | 1802  | 76  | 1705 | 6    |
| MANOHARPUR       | 55   | 46   | 84 | 255   | 201   | 79  | 130  | 55   |
| TOTAL            | 3100 | 2235 | 72 | 13153 | 10154 | 77  | 9668 | 5    |

## Performance against Last Year

| Unit in Te | PREVIOUS YEAR EXCAVATION PERFORMANCE 2017-18 |         |        |               |         |         |         |         |         |         |     |      |         |        |        |         |        |    |         |         |        |            |        |    |           |         |         |
|------------|--|---------|--------|---------------|---------|---------|---------|---------|---------|---------|-----|------|---------|--------|--------|---------|--------|----|---------|---------|--------|------------|--------|----|-----------|---------|---------|
|            | Kriburu                                      |         |        | Meghahatuburu |         |         | Bolani  |         |         | Barsua  |     |      | Taldih  |        |        | Kaika   |        |    | Gua     |         |        | Manoharpur |        |    | RMD TOTAL |         |         |
|            | TOT EXC                                      | ROM     | OB     | TOT EXC       | ROM     | OB      | TOT EXC | ROM     | OB      | TOT EXC | ROM | OB   | TOT EXC | ROM    | OB     | TOT EXC | ROM    | OB | TOT EXC | ROM     | OB     | TOT EXC    | ROM    | OB | TOT EXC   | ROM     | OB      |
| Apr-17     | 564550                                       | 319590  | 246960 | 573770        | 133020  | 440750  | 581486  | 408757  | 172729  | 0       | 0   | 0    | 78111   | 53811  | 24300  | 125300  | 125300 | 0  | 436700  | 320600  | 116100 | 48679      | 48679  | 0  | 2410596   | 1409757 | 1000839 |
| May-17     | 488520                                       | 318330  | 170190 | 547990        | 260190  | 287800  | 594504  | 458911  | 135593  | 4365    | 0   | 4365 | 140403  | 102558 | 37845  | 108247  | 108247 | 0  | 430265  | 315200  | 115065 | 49712      | 49712  | 0  | 2364006   | 1613148 | 750858  |
| Jun-17     | 504310                                       | 370440  | 133870 | 644460        | 336060  | 308400  | 710439  | 397643  | 312796  | 945     | 0   | 945  | 112428  | 70353  | 42075  | 87500   | 87500  | 0  | 427628  | 333000  | 94628  | 31287      | 31287  | 0  | 2518997   | 1626283 | 892714  |
| Jul-17     | 395010                                       | 344160  | 50850  | 630510        | 323010  | 307500  | 779891  | 354928  | 424963  | 0       | 0   | 0    | 84063   | 62328  | 21735  | 74600   | 74600  | 0  | 410665  | 323300  | 87365  | 0          | 0      | 0  | 2374739   | 1482326 | 892413  |
| Total      | 1954390                                      | 1352520 | 601870 | 2396730       | 1052280 | 1344450 | 2666320 | 1620239 | 1046081 | 5310    | 0   | 5310 | 415005  | 289050 | 125955 | 395647  | 395647 | 0  | 1705258 | 1292100 | 413158 | 129678     | 129678 | 0  | 9668338   | 6131514 | 3536824 |

|                       | THIS YEAR EXCAVATION PERFORMANCE 2018-19 |         |         |               |         |         |         |         |        |         |         |       |         |        |        |         |        |         |         |         |        |            |        |         |           |         |         |
|-----------------------|--|---------|---------|---------------|---------|---------|---------|---------|--------|---------|---------|-------|---------|--------|--------|---------|--------|---------|---------|---------|--------|------------|--------|---------|-----------|---------|---------|
|                       | Kriburu                                  |         |         | Meghahatuburu |         |         | Bolani  |         |        | Barsua  |         |       | Taldih  |        |        | Kaika   |        |         | Gua     |         |        | Manoharpur |        |         | RMD TOTAL |         |         |
|                       | TOT EXC                                  | ROM     | OB      | TOT EXC       | ROM     | OB      | TOT EXC | ROM     | OB     | TOT EXC | ROM     | OB    | TOT EXC | ROM    | OB     | TOT EXC | ROM    | OB      | TOT EXC | ROM     | OB     | TOT EXC    | ROM    | OB      | TOT EXC   | ROM     | OB      |
| Apr-18                | 414550                                   | 277830  | 136720  | 579990        | 299790  | 280200  | 693432  | 308108  | 385324 | 0       | 0       | 0     | 121796  | 98306  | 23490  | 141140  | 141140 | 0       | 468530  | 341000  | 127530 | 18700      | 18700  | 0       | 2438138   | 1484874 | 953264  |
| May-18                | 464760                                   | 365490  | 99270   | 660790        | 297090  | 363700  | 697182  | 468363  | 228819 | 109405  | 88915   | 20490 | 111636  | 89676  | 21960  | 144020  | 144020 | 0       | 499250  | 341100  | 158150 | 70140      | 70140  | 0       | 2757183   | 1844794 | 892389  |
| Jun-18                | 538824                                   | 346680  | 192144  | 595770        | 262170  | 333600  | 705132  | 485008  | 220124 | 197559  | 181049  | 16510 | 94690   | 79030  | 15660  | 117100  | 117100 | 0       | 406490  | 325310  | 81180  | 65968      | 64914  | 1054    | 2721533   | 1861261 | 860272  |
| Jul-18                | 343980                                   | 310230  | 33750   | 489910        | 315810  | 174100  | 605878  | 449568  | 156310 | 157025  | 141235  | 15790 | 75485   | 71255  | 4230   | 89100   | 89100  | 0       | 427230  | 322650  | 104580 | 46439      | 46439  | 0       | 2235047   | 1746287 | 488760  |
| Total                 | 1762114                                  | 1300230 | 461884  | 2326460       | 1174860 | 1151600 | 2701624 | 1711047 | 990577 | 463989  | 411199  | 52790 | 403607  | 338267 | 65340  | 491360  | 491360 | 0       | 1801500 | 1330060 | 471440 | 201247     | 200193 | 1054    | 10151901  | 6957216 | 3194685 |
| Change Over Last Year |  |         |         |               |         |         |         |         |        |         |         |       |         |        |        |         |        |         |         |         |        |            |        |         |           |         |         |
| DIFF                  | -192276                                  | -52290  | -139986 | -70270        | 122580  | -192850 | 35304   | 90808   | -55504 | 458679  | 411199  | 47480 | -11398  | 49217  | -60615 | 95713   | 95713  | 0       | 96242   | 37960   | 58282  | 71569      | 70515  | 1054    | 483563    | 825702  | -342139 |
| %Chg                  | -9.8                                     | -3.9    | -23.3   | -2.9          | 11.6    | -14.3   | 1.3     | 5.6     | -5.3   | 8638.0  | #DIV/0! | 894.2 | -2.7    | 17.0   | -48.1  | 24.2    | 24.2   | #DIV/0! | 5.6     | 2.9     | 14.1   | 55.2       | 54.4   | #DIV/0! | 5.0       | 13.5    | -9.7    |

## Performance against Last Year

| Unit In Te | PREVIOUS YEAR PRODUCTION PERFORMANCE 2017-18 |        |         |               |        |         |        |        |         |        |       |     |        |       |        |        |        |        |        |        |         |            |       |        |           |         |         |
|------------|--|--------|---------|---------------|--------|---------|--------|--------|---------|--------|-------|-----|--------|-------|--------|--------|--------|--------|--------|--------|---------|------------|-------|--------|-----------|---------|---------|
|            | Kriburu                                      |        |         | Meghahatuburu |        |         | Bolani |        |         | Barsua |       |     | Taldih |       |        | Kalta  |        |        | Gua    |        |         | Manoharpur |       |        | RMD TOTAL |         |         |
|            | LUMP   | FINES  | TOT     | LUMP          | FINES  | TOT     | LUMP   | FINES  | TOT     | LUMP   | FINES | TOT | LUMP   | FINES | TOT    | LUMP   | FINES  | TOT    | LUMP   | FINES  | TOT     | LUMP       | FINES | TOT    | LUMP      | FINES   | TOT     |
| Apr-17     | 98217  | 221373 | 319590  | 42314         | 135337 | 177651  | 150393 | 254749 | 405142  |        |       |     | 21394  |       | 21394  | 57208  | 58563  | 115771 | 92928  | 227672 | 320600  | 30625      | 18054 | 48679  | 493079    | 915748  | 1408827 |
| May-17     | 106745                                       | 211585 | 318330  | 70752         | 177349 | 248101  | 174492 | 280029 | 454521  |        |       |     | 41093  |       | 41093  | 55660  | 54424  | 110084 | 91253  | 223947 | 315200  | 30522      | 19190 | 49712  | 570517    | 966524  | 1537041 |
| Jun-17     | 100070                                       | 270370 | 370440  | 82706         | 232536 | 315242  | 157170 | 242913 | 400083  |        |       |     | 26726  |       | 26726  | 41059  | 31414  | 72473  | 80324  | 252676 | 333000  | 30594      | 742   | 31336  | 518649    | 1030651 | 1549300 |
| Jul-17     | 94020  | 250140 | 344160  | 92232         | 168657 | 260889  | 121037 | 192991 | 314028  |        |       |     | 24980  |       | 24980  | 51291  | 18756  | 70047  | 70132  | 253168 | 323300  |            |       |        | 453692    | 883712  | 1337404 |
| Total      | 399052                                       | 953468 | 1352520 | 288004        | 713879 | 1001883 | 603092 | 970682 | 1573774 |        |       |     | 114193 |       | 114193 | 205218 | 163157 | 368375 | 334637 | 957463 | 1292100 | 91741      | 37986 | 129727 | 2035937   | 3796635 | 5832572 |

|                       | THIS YEAR PRODUCTION PERFORMANCE 2018-19 |        |         |               |        |         |        |         |         |         |         |         |        |         |        |        |        |        |        |        |         |            |       |        |           |         |         |
|-----------------------|--|--------|---------|---------------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--------|---------|------------|-------|--------|-----------|---------|---------|
|                       | Kriburu                                  |        |         | Meghahatuburu |        |         | Bolani |         |         | Barsua  |         |         | Taldih |         |        | Kalta  |        |        | Gua    |        |         | Manoharpur |       |        | RMD TOTAL |         |         |
|                       | LUMP                                     | FINES  | TOT     | LUMP          | FINES  | TOT     | LUMP   | FINES   | TOT     | LUMP    | FINES   | TOT     | LUMP   | FINES   | TOT    | LUMP   | FINES  | TOT    | LUMP   | FINES  | TOT     | LUMP       | FINES | TOT    | LUMP      | FINES   | TOT     |
| Apr-18                | 73813                                    | 204017 | 277830  | 82542         | 217606 | 300148  | 93647  | 217222  | 310869  |         |         |         | 39333  | 29869   | 69202  | 79217  | 88549  | 167766 | 92820  | 248180 | 341000  | 18700      |       | 18700  | 480072    | 1005443 | 1485515 |
| May-18                | 83313                                    | 282177 | 365490  | 86157         | 217474 | 303631  | 184358 | 276615  | 460973  | 23342   | 65573   | 88915   | 35870  | 35918   | 71788  | 74843  | 71871  | 146714 | 94338  | 246762 | 341100  | 44310      | 25830 | 70140  | 626531    | 1222220 | 1848751 |
| Jun-18                | 75868                                    | 270812 | 346680  | 68442         | 235470 | 304112  | 185256 | 292582  | 477838  | 50900   | 129999  | 180899  | 31623  | 13503   | 45126  | 61887  | 45438  | 107325 | 94500  | 230810 | 325310  | 33310      | 31604 | 64914  | 601986    | 1250218 | 1852204 |
| Jul-18                | 86553                                    | 223677 | 310230  | 87456         | 154388 | 241844  | 193161 | 251857  | 445018  | 46105   | 85412   | 131517  | 28502  | 15190   | 43692  | 48711  | 16190  | 64901  | 96275  | 226375 | 322650  | 18981      | 27458 | 46439  | 605744    | 1000547 | 1606291 |
| Total                 | 319547                                   | 980683 | 1300230 | 324797        | 824938 | 1149735 | 656422 | 1038276 | 1694698 | 120347  | 280984  | 401331  | 135328 | 94480   | 229808 | 264658 | 222048 | 486706 | 377933 | 952127 | 1330060 | 115301     | 84892 | 200193 | 2314333   | 4478428 | 6792761 |
| Change Over Last Year |  |        |         |               |        |         |        |         |         |         |         |         |        |         |        |        |        |        |        |        |         |            |       |        |           |         |         |
| DIFF                  | -79505                                   | 27215  | -52290  | 36793         | 111059 | 147852  | 53330  | 67594   | 120924  | 120347  | 280984  | 401331  | 21135  | 94480   | 115615 | 59440  | 58891  | 118331 | 43296  | -5336  | 37960   | 23560      | 46906 | 70466  | 278396    | 681793  | 960189  |
| %Chg                  | -19.9                                    | 2.9    | -3.9    | 12.8          | 15.6   | 14.8    | 8.8    | 7.0     | 7.7     | #DIV/0! | #DIV/0! | #DIV/0! | 18.5   | #DIV/0! | 101.2  | 29.0   | 36.1   | 32.1   | 12.9   | -0.6   | 2.9     | 25.7       | 123.5 | 54.3   | 13.7      | 18.0    | 16.5    |



## Performance against Last Year

| Unit In To            | PREVIOUS YEAR DESPATCH PERFORMANCE 2017-18 |        |         |               |        |         |        |         |         |         |         |         |        |         |        |        |        |        |        |        |         |            |       |        |           |         |         |
|-----------------------|--|--------|---------|---------------|--------|---------|--------|---------|---------|---------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--------|---------|------------|-------|--------|-----------|---------|---------|
|                       | Kiriburu                                   |        |         | Meghahatuburu |        |         | Bolani |         |         | Barsua  |         |         | Taldih |         |        | Kalta  |        |        | Gua    |        |         | Manoharpur |       |        | RMD TOTAL |         |         |
|                       | LUMP                                       | FINES  | TOT     | LUMP          | FINES  | TOT     | LUMP   | FINES   | TOT     | LUMP    | FINES   | TOT     | LUMP   | FINES   | TOT    | LUMP   | FINES  | TOT    | LUMP   | FINES  | TOT     | LUMP       | FINES | TOT    | LUMP      | FINES   | TOT     |
| Apr-17                | 93034                                      | 205705 | 298739  | 102557        | 186744 | 289301  | 157291 | 270155  | 427446  |         |         |         | 19284  |         | 19284  | 52923  | 49335  | 102258 | 94743  | 211053 | 305796  | 29782      | 13962 | 43744  | 549614    | 936954  | 1486568 |
| May-17                | 108284                                     | 229783 | 338067  | 75471         | 122904 | 198375  | 161078 | 238285  | 399363  |         |         |         | 44258  |         | 44258  | 61635  | 51644  | 113279 | 86851  | 198410 | 285261  | 33785      | 18125 | 51910  | 571362    | 859151  | 1430513 |
| Jun-17                | 94661                                      | 236046 | 330707  | 71102         | 204110 | 275212  | 161631 | 269244  | 430875  |         |         |         | 31910  |         | 31910  | 39970  | 40446  | 80416  | 69949  | 215160 | 285109  | 28119      |       | 28119  | 497342    | 965006  | 1462348 |
| Jul-17                | 95988                                      | 203227 | 299215  | 98431         | 202274 | 300705  | 131343 | 201904  | 333247  |         |         |         | 26127  |         | 26127  | 50192  | 32846  | 83038  | 56698  | 214229 | 270927  |            |       |        | 458779    | 854480  | 1313259 |
| Total                 | 391967                                     | 874761 | 1266728 | 347561        | 716032 | 1063593 | 611343 | 979588  | 1590931 | 0       | 0       | 0       | 121579 | 0       | 121579 | 204720 | 174271 | 378991 | 308241 | 838852 | 1147093 | 91686      | 32087 | 123773 | 2077097   | 3615591 | 5692688 |
| Unit In To            | THIS YEAR DESPATCH PERFORMANCE 2018-19     |        |         |               |        |         |        |         |         |         |         |         |        |         |        |        |        |        |        |        |         |            |       |        |           |         |         |
|                       | Kiriburu                                   |        |         | Meghahatuburu |        |         | Bolani |         |         | Barsua  |         |         | Taldih |         |        | Kalta  |        |        | Gua    |        |         | Manoharpur |       |        | RMD TOTAL |         |         |
|                       | LUMP                                       | FINES  | TOT     | LUMP          | FINES  | TOT     | LUMP   | FINES   | TOT     | LUMP    | FINES   | TOT     | LUMP   | FINES   | TOT    | LUMP   | FINES  | TOT    | LUMP   | FINES  | TOT     | LUMP       | FINES | TOT    | LUMP      | FINES   | TOT     |
| Apr-18                | 83370                                      | 219106 | 302476  | 124184        | 208457 | 332641  | 121767 | 314857  | 436624  |         |         |         | 41799  | 23872   | 65671  | 72764  | 88815  | 161579 | 110181 | 207154 | 317335  | 17613      |       | 17613  | 571678    | 1062261 | 1633939 |
| May-18                | 86809                                      | 224600 | 311409  | 90587         | 221302 | 311889  | 143299 | 321339  | 464638  | 11027   | 13401   | 24428   | 28797  | 33720   | 62517  | 72019  | 67164  | 139183 | 105181 | 173192 | 278373  | 46414      | 22063 | 68477  | 584133    | 1076781 | 1660914 |
| Jun-18                | 77029                                      | 251775 | 328804  | 51764         | 258754 | 310518  | 233646 | 310958  | 544604  | 48990   | 69219   | 118209  | 36341  | 16492   | 52833  | 71150  | 57334  | 128484 | 97799  | 171704 | 269503  | 30099      | 32631 | 62730  | 646818    | 1168867 | 1815685 |
| Jul-18                | 86744                                      | 222210 | 308954  | 86332         | 189169 | 275501  | 196074 | 277784  | 473858  | 49665   | 110036  | 159701  | 32062  | 14194   | 46256  | 46764  | 14455  | 61219  | 99794  | 213607 | 313401  | 22072      | 26515 | 48587  | 619507    | 1067970 | 1687477 |
| Total                 | 333952                                     | 917691 | 1251643 | 352867        | 877682 | 1230549 | 694786 | 1224938 | 1919724 | 109682  | 192656  | 302338  | 138999 | 88278   | 227277 | 262697 | 227768 | 490465 | 412955 | 765657 | 1178612 | 116198     | 81209 | 197407 | 2422136   | 4375879 | 6798015 |
| Change Over Last Year |  |        |         |               |        |         |        |         |         |         |         |         |        |         |        |        |        |        |        |        |         |            |       |        |           |         |         |
| DIFF                  | -58015                                     | 42930  | -15085  | 5306          | 161650 | 166956  | 83443  | 245350  | 328793  | 109682  | 192656  | 302338  | 17420  | 88278   | 105698 | 57977  | 53497  | 111474 | 104714 | -73195 | 31519   | 24512      | 49122 | 73634  | 345039    | 760288  | 1105327 |
| %Chg                  | -14.8                                      | 4.9    | -1.2    | 1.5           | 22.6   | 15.7    | 13.6   | 25.0    | 20.7    | #DIV/0! | #DIV/0! | #DIV/0! | 14.3   | #DIV/0! | 86.9   | 28.3   | 30.7   | 29.4   | 34.0   | -8.7   | 2.7     | 26.7       | 153.1 | 59.5   | 16.6      | 21.0    | 19.4    |

# IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

July 2018  
बोकारो इस्पात संयंत्र

UNIT '000 TONNES

| MINE     | LUMP      |     |     |            |     |     |      |      | FINES     |     |     |            |      |     |      |      | TOTAL     |     |     |            |      |     |      |      |
|----------|-----------|-----|-----|------------|-----|-----|------|------|-----------|-----|-----|------------|------|-----|------|------|-----------|-----|-----|------------|------|-----|------|------|
|          | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |      |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |      |     | LAST | GRTH |
|          | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT  | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT  | %FF | YR   | %    |
| KRB      | 70        | 51  | 73  | 235        | 142 | 60  | 123  | 15   | 60        | 88  | 146 | 250        | 358  | 143 | 345  | 4    | 130       | 138 | 106 | 485        | 500  | 103 | 468  | 7    |
| MBR      | 50        | 26  | 53  | 300        | 145 | 48  | 174  | -16  | 90        | 57  | 64  | 345        | 391  | 113 | 354  | 10   | 140       | 84  | 60  | 645        | 537  | 83  | 528  | 2    |
| BOI      | 35        | 73  | 207 | 140        | 179 | 128 | 232  | -23  | 130       | 49  | 38  | 570        | 236  | 41  | 246  | -4   | 165       | 122 | 74  | 710        | 415  | 58  | 478  | -13  |
| BAR      | 25        | 7   | 28  | 25         | 20  | 81  |      |      | 15        | 81  | 540 | 15         | 144  | 961 |      |      | 40        | 88  | 220 | 40         | 164  | 411 |      |      |
| TAL      |           | 4   |     |            | 10  |     |      |      | 20        | 14  | 71  | 25         | 88   | 353 |      |      | 20        | 18  | 89  | 25         | 99   | 395 |      |      |
| KAL      |           | 33  |     | 35         | 196 | 559 | 38   | 416  |           | 4   |     |            | 58   |     | 49   | 18   |           | 36  |     | 35         | 253  | 723 | 87   | 192  |
| GUA      | 10        | 3   | 35  | 50         | 8   | 16  | 74   | -89  |           | 11  |     |            | 30   |     | 188  | -84  | 10        | 15  | 147 | 50         | 38   | 77  | 262  | -85  |
| MPR      | 30        | 11  | 37  | 120        | 67  | 56  | 36   | 89   | 10        | 23  | 227 | 85         | 51   | 60  | 14   | 252  | 40        | 34  | 85  | 205        | 118  | 58  | 50   | 136  |
| RMD TOT  | 220       | 208 | 94  | 905        | 768 | 85  | 676  | 14   | 325       | 327 | 101 | 1290       | 1356 | 105 | 1196 | 13   | 545       | 535 | 98  | 2195       | 2125 | 97  | 1873 | 13   |
| DRZ      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| PUR      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| GR TOT   | 220       | 208 | 94  | 905        | 768 | 85  | 676  | 14   | 325       | 327 | 101 | 1290       | 1356 | 105 | 1196 | 13   | 545       | 535 | 98  | 2195       | 2125 | 97  | 1873 | 13   |
| 0 FLUXES |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| KTR      | 34        | 32  | 95  | 153        | 125 | 82  | 105  | 19   |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| TDMR     | 10        | 4   | 38  | 35         | 18  | 51  | 27   | -34  |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| TOT      | 44        | 36  | 82  | 188        | 142 | 76  | 132  | 8    |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |

# IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

July 2018  
दूर्गापुर इस्पात संयंत्र

UNIT '000 TONNES

| UNIT: 555 TONNES |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
|------------------|-----------|-----|-----|------------|-----|-----|------|------|-----------|-----|-----|------------|-----|-----|------|------|-----------|-----|-----|------------|------|-----|------|------|
| MINE             | LUMP      |     |     |            |     |     |      |      | FINES     |     |     |            |     |     |      |      | TOTAL     |     |     |            |      |     |      |      |
|                  | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |      |     | LAST | GRTH |
|                  | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT  | %FF | YR   | %    |
| KRB              |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| MBR              |           |     |     |            | 7   |     | 11   | -40  |           | 10  |     |            | 35  |     | 7    | 406  |           | 10  |     |            | 42   |     | 18   | 127  |
| BOL              | 95        | 73  | 77  | 380        | 354 | 93  | 233  | 52   | 140       | 137 | 98  | 500        | 560 | 112 | 379  | 48   | 235       | 210 | 90  | 880        | 914  | 104 | 611  | 49   |
| BAR              |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| TAL              |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| KAL              |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| GUA              | 45        | 36  | 79  | 185        | 154 | 83  | 145  | 6    | 70        | 79  | 112 | 335        | 330 | 99  | 269  | 23   | 115       | 114 | 99  | 520        | 484  | 93  | 414  | 17   |
| MPR              |           |     |     |            |     |     | 4    | -100 |           |     |     |            |     |     |      |      |           |     |     |            |      | 4   | -100 |      |
| RMD TOT          | 140       | 109 | 78  | 565        | 515 | 91  | 393  | 31   | 210       | 226 | 108 | 835        | 925 | 111 | 655  | 41   | 350       | 335 | 96  | 1400       | 1439 | 103 | 1047 | 37   |
| DRZ              |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| PUR              |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| GR TOT           | 140       | 109 | 78  | 565        | 515 | 91  | 393  | 31   | 210       | 226 | 108 | 835        | 925 | 111 | 655  | 41   | 350       | 335 | 96  | 1400       | 1439 | 103 | 1047 | 37   |
| 0 FLUXES         |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| KTR              | 4         | 8   | 202 | 17         | 20  | 119 | 4    | 402  |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| TDMR             |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| TOT              | 4         | 8   | 202 | 17         | 20  | 119 | 4    | 402  |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |

**IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS**

July 2018  
राउरकेला इस्पात संयंत्र

UNIT '000 TONNES

| MINE    | LUMP      |     |     |            |     |     |      |      | FINES     |     |     |            |      |     |      |      | TOTAL     |     |     |            |      |     |      |      |
|---------|-----------|-----|-----|------------|-----|-----|------|------|-----------|-----|-----|------------|------|-----|------|------|-----------|-----|-----|------------|------|-----|------|------|
|         | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |      |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |      |     | LAST | GRTH |
|         | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT  | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT  | %FF | YR   | %    |
| KRB     | 25        | 36  | 144 | 175        | 192 | 110 | 269  | -29  | 130       | 135 | 104 | 490        | 543  | 111 | 477  | 14   | 155       | 171 | 110 | 665        | 736  | 111 | 746  | -1   |
| MBR     | 50        | 60  | 120 | 150        | 197 | 132 | 162  | 22   | 80        | 93  | 117 | 390        | 391  | 100 | 332  | 18   | 130       | 153 | 118 | 540        | 588  | 109 | 494  | 19   |
| BOL     |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| BAR     | 55        | 43  | 78  | 55         | 89  | 163 |      |      | 35        | 29  | 83  | 35         | 48   | 138 |      |      | 90        | 72  | 80  | 90         | 138  | 153 |      |      |
| TAL     | 30        | 28  | 95  | 185        | 129 | 69  | 121  | 6    | 20        |     |     | 70         |      |     |      |      | 50        | 28  | 57  | 255        | 129  | 50  | 121  | 6    |
| KAL     | 65        | 14  | 22  | 300        | 67  | 22  | 167  | -60  | 60        | 11  | 18  | 320        | 170  | 53  | 126  | 35   | 125       | 25  | 20  | 620        | 237  | 38  | 292  | -19  |
| GUA     |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| MPR     |           | 11  |     |            | 45  |     | 11   | 300  | 15        | 4   | 25  | 50         | 23   | 46  | 18   | 30   | 15        | 15  | 98  | 50         | 68   | 136 | 29   | 135  |
| RMD TOT | 225       | 192 | 85  | 865        | 720 | 83  | 730  | -1   | 340       | 271 | 80  | 1355       | 1176 | 87  | 953  | 23   | 565       | 463 | 82  | 2220       | 1895 | 85  | 1683 | 13   |
| PUR     |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| DRZ     |           |     |     |            | 6   |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            | 6    |     |      |      |
| GR TOT  | 225       | 192 | 85  | 865        | 726 | 84  | 730  | -1   | 340       | 271 | 80  | 1355       | 1176 | 87  | 953  | 23   | 565       | 463 | 82  | 2220       | 1901 | 86  | 1683 | 13   |
| 0       |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| FLUXES  |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| KTR     | 12        | 16  | 133 | 63         | 36  | 57  | 32   | 11   |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| TDMR    | 4         |     |     | 16         | 5   | 34  | 23   | -76  |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |
| TOT     | 16        | 16  | 99  | 79         | 41  | 52  | 55   | -25  |           |     |     |            |      |     |      |      |           |     |     |            |      |     |      |      |

# IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

July 2018  
बर्नपुर इस्पात संयंत्र

UNIT '000 TONNES

| MINE     | LUMP      |     |     |            |     |     |      |      | FINES     |     |     |            |     |     |      |      | TOTAL     |     |     |            |      |     |      |      |
|----------|-----------|-----|-----|------------|-----|-----|------|------|-----------|-----|-----|------------|-----|-----|------|------|-----------|-----|-----|------------|------|-----|------|------|
|          | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |      |     | LAST | GRTH |
|          | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT  | %FF | YR   | %    |
| KRB      | 10        |     |     | 40         |     |     |      |      |           |     |     |            | 3   |     |      |      | 10        |     |     | 40         | 3    | 8   |      |      |
| MBR      |           |     |     |            | 3   |     |      |      | 40        | 29  | 73  | 180        | 62  | 34  | 23   | 172  | 40        | 29  | 73  | 180        | 65   | 36  | 23   | 186  |
| BOI      | 50        | 51  | 101 | 225        | 162 | 72  | 147  | 10   | 70        | 91  | 130 | 280        | 430 | 153 | 355  | 21   | 120       | 142 | 118 | 505        | 591  | 117 | 502  | 18   |
| BAR      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| TAL      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| KAL      | 15        |     |     | 25         |     |     |      |      |           |     |     |            |     |     |      |      | 15        |     |     | 25         |      |     |      |      |
| GUA      | 25        | 61  | 242 | 125        | 251 | 201 | 89   | 182  | 150       | 124 | 83  | 575        | 405 | 70  | 382  | 6    | 175       | 184 | 105 | 700        | 656  | 94  | 471  | 39   |
| MPR      |           |     |     |            | 4   |     | 41   | -91  |           |     |     |            | 8   |     |      |      |           |     |     |            | 11   |     | 41   | -73  |
| RMD TOT  | 100       | 111 | 111 | 415        | 419 | 101 | 277  | 51   | 260       | 244 | 94  | 1035       | 907 | 88  | 760  | 19   | 360       | 355 | 99  | 1450       | 1327 | 91  | 1037 | 28   |
| DRZ      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| PUR      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| GR TOT   | 100       | 111 | 111 | 415        | 419 | 101 | 277  | 51   | 260       | 244 | 94  | 1035       | 907 | 88  | 760  | 19   | 360       | 355 | 99  | 1450       | 1327 | 91  | 1037 | 28   |
| n FLUXES |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| KTR      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| TDMR     |           |     |     | 4          | 3   | 75  |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |
| TOT      |           |     |     | 4          | 3   | 75  |      |      |           |     |     |            |     |     |      |      |           |     |     |            |      |     |      |      |

**IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS**

July 2018  
भिलाई इस्पात संयंत्र

UNIT '000 TONNES

| MINE    | LUMP      |     |     |            |     |     |      |      | FINES     |     |     |            |     |     |      |      | TOTAL     |     |     |            |     |     |      |      |
|---------|-----------|-----|-----|------------|-----|-----|------|------|-----------|-----|-----|------------|-----|-----|------|------|-----------|-----|-----|------------|-----|-----|------|------|
|         | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH | FOR MONTH |     |     | TILL MONTH |     |     | LAST | GRTH |
|         | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    | APP       | ACT | %FF | APP        | ACT | %FF | YR   | %    |
| KRB     |           |     |     |            |     |     |      |      | 30        |     |     | 330        | 13  | 4   | 52   | -76  | 30        |     |     | 330        | 13  | 4   | 52   | -76  |
| MBR     |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| BOL     |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| BAR     |           |     |     |            |     |     |      |      | 70        |     |     | 70         |     |     |      |      | 70        |     |     | 70         |     |     |      |      |
| TAL     |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| KAL     |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| GUA     |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| MPR     |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| RMD TOT |           |     |     |            |     |     |      |      | 100       |     |     | 400        | 13  | 3   | 52   | -76  | 100       |     |     | 400        | 13  | 3   | 52   | -76  |
| DRZ     |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| PUR     |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| GR TOT  |           |     |     |            |     |     |      |      | 100       |     |     | 400        | 13  | 3   | 52   | -76  | 100       |     |     | 400        | 13  | 3   | 52   | -76  |
| 0       |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| FLUXES  |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| KTR     | 50        | 24  | 48  | 227        | 149 | 66  | 210  | -29  |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| TDMR    | 6         | 17  | 283 | 25         | 28  | 112 | 24   | 17   |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |
| TOT     | 56        | 41  | 73  | 252        | 177 | 70  | 234  | -24  |           |     |     |            |     |     |      |      |           |     |     |            |     |     |      |      |

# IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

July 2018

BSL+DSP+RSP+ISP+BSP

UNIT '000 TONNES

| MINE    | LUMP      |     |     |            |      |     |      |      | FINES     |      |     |            |      |     |      |      | TOTAL     |      |     |            |      |     |      |      |
|---------|-----------|-----|-----|------------|------|-----|------|------|-----------|------|-----|------------|------|-----|------|------|-----------|------|-----|------------|------|-----|------|------|
|         | FOR MONTH |     |     | TILL MONTH |      |     | LAST | GRTH | FOR MONTH |      |     | TILL MONTH |      |     | LAST | GRTH | FOR MONTH |      |     | TILL MONTH |      |     | LAST | GRTH |
|         | APP       | ACT | %FF | APP        | ACT  | %FF | YR   | %    | APP       | ACT  | %FF | APP        | ACT  | %FF | YR   | %    | APP       | ACT  | %FF | APP        | ACT  | %FF | YR   | %    |
| KRB     | 105       | 87  | 83  | 450        | 334  | 74  | 392  | -15  | 220       | 222  | 101 | 1070       | 918  | 86  | 875  | 5    | 325       | 309  | 95  | 1520       | 1252 | 82  | 1267 | -1   |
| MBR     | 100       | 86  | 86  | 450        | 353  | 78  | 348  | 2    | 210       | 190  | 91  | 915        | 879  | 96  | 716  | 23   | 310       | 277  | 89  | 1365       | 1232 | 90  | 1064 | 16   |
| BOI     | 180       | 196 | 109 | 745        | 695  | 93  | 611  | 14   | 340       | 278  | 82  | 1350       | 1225 | 91  | 980  | 25   | 520       | 474  | 91  | 2095       | 1920 | 92  | 1591 | 21   |
| BAR     | 80        | 50  | 62  | 80         | 110  | 137 |      |      | 120       | 110  | 92  | 120        | 192  | 160 |      |      | 200       | 160  | 80  | 200        | 302  | 151 |      |      |
| TAL     | 30        | 32  | 107 | 185        | 139  | 75  | 121  | 15   | 40        | 14   | 35  | 95         | 88   | 93  |      |      | 70        | 46   | 66  | 280        | 227  | 81  | 121  | 88   |
| KAL     | 80        | 47  | 58  | 360        | 263  | 73  | 205  | 28   | 60        | 14   | 24  | 320        | 228  | 71  | 174  | 31   | 140       | 61   | 44  | 680        | 490  | 72  | 379  | 29   |
| GUA     | 80        | 100 | 125 | 360        | 413  | 115 | 308  | 34   | 220       | 214  | 97  | 910        | 766  | 84  | 839  | -9   | 300       | 313  | 104 | 1270       | 1179 | 93  | 1147 | 3    |
| MPR     | 30        | 22  | 74  | 120        | 116  | 97  | 92   | 27   | 25        | 27   | 106 | 135        | 81   | 60  | 32   | 153  | 55        | 49   | 88  | 255        | 197  | 77  | 124  | 59   |
| RMD TOT | 685       | 620 | 90  | 2750       | 2422 | 88  | 2076 | 17   | 1235      | 1069 | 87  | 4915       | 4377 | 89  | 3616 | 21   | 1920      | 1688 | 88  | 7665       | 6799 | 89  | 5692 | 19   |
| PUR     |           |     |     |            |      |     |      |      |           |      |     |            |      |     |      |      |           |      |     |            |      |     |      |      |
| DRZ     |           |     |     |            | 6    |     |      |      |           |      |     |            |      |     |      |      |           |      |     |            | 6    |     |      |      |
| GR TOT  | 685       | 620 | 90  | 2750       | 2428 | 88  | 2076 | 17   | 1235      | 1069 | 87  | 4915       | 4377 | 89  | 3616 | 21   | 1920      | 1688 | 88  | 7665       | 6805 | 89  | 5692 | 20   |
| 0       |           |     |     |            |      |     |      |      |           |      |     |            |      |     |      |      |           |      |     |            |      |     |      |      |
| FLUXES  |           |     |     |            |      |     |      |      |           |      |     |            |      |     |      |      |           |      |     |            |      |     |      |      |
| KTR     | 100       | 80  | 80  | 460        | 330  | 72  | 351  | -6   |           |      |     |            |      |     |      |      |           |      |     |            |      |     |      |      |
| IDMR    | 20        | 21  | 104 | 80         | 54   | 68  | 74   | -27  |           |      |     |            |      |     |      |      |           |      |     |            |      |     |      |      |
| TOT     | 120       | 101 | 84  | 540        | 384  | 71  | 425  | -10  |           |      |     |            |      |     |      |      |           |      |     |            |      |     |      |      |

**FLUX MINES PERFORMANCE FOR AND UPTO THE MONTH OF  
July 2018**

**UNIT 000 TONNES**

**PRODUCTION**

| MINE       | PLAN | FOR MONTH |     |     |                        | GRTH %<br>OVER<br>LSTYR<br>Jul 2017 | TILL MONTH |     |     |            | GRTH %<br>OVER<br>LSTYR |
|------------|------|-----------|-----|-----|------------------------|-------------------------------------|------------|-----|-----|------------|-------------------------|
|            |      | TGT       | ACT | %FF | LAST<br>YR<br>Jul 2017 |                                     | TGT        | ACT | %FF | LAST<br>YR |                         |
| KUTESHWAR  | 1365 | 100       | 82  | 82  | 69                     | 18.1                                | 460        | 320 | 70  | 350        | -8.5                    |
| TULSIDAMAR | 210  | 20        | 13  | 64  | 14                     | -8.6                                | 80         | 57  | 71  | 62         | -8.0                    |
| TOTAL      | 1575 | 120       | 94  | 79  | 83                     | 13.5                                | 540        | 377 | 70  | 412        | -8.4                    |

**DESPATCH**

| MINE       | PLAN | FOR MONTH |     |     |                        | GRTH %<br>OVER<br>LSTYR<br>Jul 2017 | TILL MONTH |     |     |            | GRTH %<br>OVER<br>LSTYR |
|------------|------|-----------|-----|-----|------------------------|-------------------------------------|------------|-----|-----|------------|-------------------------|
|            |      | TGT       | ACT | %FF | LAST<br>YR<br>Jul 2017 |                                     | PLAN       | ACT | %FF | LAST<br>YR |                         |
| KUTESHWAR  | 1365 | 100       | 80  | 80  | 81                     | -0.4                                | 460        | 330 | 72  | 351        | -6.0                    |
| TULSIDAMAR | 210  | 20        | 21  | 103 | 16                     | 28.8                                | 80         | 81  | 101 | 74         | 9.7                     |
| TOTAL      | 1575 | 120       | 101 | 84  | 97                     | 4.5                                 | 540        | 411 | 76  | 425        | -3.2                    |



**Monthwise Performance against Last Year**

| Unit In Te | PREVIOUS YEAR FLUX PERFORMANCE 2017-18 |        |              |      |            |       |           |        |
|------------|--|--------|--------------|------|------------|-------|-----------|--------|
|            | KTR                                    |        | Bhawanathpur |      | Tulsidamar |       | RMD TOTAL |        |
|            | PROD                                   | DESP   | PROD         | DESP | PROD       | DESP  | PROD      | DESP   |
| Apr-17     | 84586                                  | 80594  |              |      | 10170      | 20107 | 94756     | 100701 |
| May-17     | 105306                                 | 100972 |              |      | 15229      | 17144 | 120535    | 118116 |
| Jun-17     | 90785                                  | 88818  |              |      | 22413      | 20559 | 113198    | 109377 |
| Jul-17     | 69065                                  | 80624  |              |      | 14045      | 16005 | 83110     | 96629  |
| Aug-17     |  |        |              |      |            |       |           |        |
| Sep-17     |  |        |              |      |            |       |           |        |
| Oct-17     |  |        |              |      |            |       |           |        |
| Nov-17     |  |        |              |      |            |       |           |        |
| Dec-17     |  |        |              |      |            |       |           |        |
| Jan-18     |  |        |              |      |            |       |           |        |
| Feb-18     |  |        |              |      |            |       |           |        |
| Mar-18     |  |        |              |      |            |       |           |        |
| Total      | 349742                                 | 351008 |              |      | 61857      | 73815 | 411599    | 424823 |

|        | THIS YEAR FLUX PERFORMANCE 2018-19 |        |              |      |            |       |           |        |
|--------|------------------------------------|--------|--------------|------|------------|-------|-----------|--------|
|        | KTR                                |        | Bhawanathpur |      | Tulsidamar |       | RMD TOTAL |        |
|        | PROD                               | DESP   | PROD         | DESP | PROD       | DESP  | PROD      | DESP   |
| Apr-18 | 65064                              | 72530  |              |      | 13835      | 22249 | 78899     | 94779  |
| May-18 | 75105                              | 88888  |              |      | 14282      | 13104 | 89387     | 101992 |
| Jun-18 | 98203                              | 88408  |              |      | 15773      | 22176 | 113976    | 110584 |
| Jul-18 | 81536                              | 80318  |              |      | 12834      | 20622 | 94370     | 100940 |
| Aug-18 |                                    |        |              |      |            |       |           |        |
| Sep-18 |                                    |        |              |      |            |       |           |        |
| Oct-18 |                                    |        |              |      |            |       |           |        |
| Nov-18 |                                    |        |              |      |            |       |           |        |
| Dec-18 |                                    |        |              |      |            |       |           |        |
| Jan-19 |                                    |        |              |      |            |       |           |        |
| Feb-19 |                                    |        |              |      |            |       |           |        |
| Mar-19 |                                    |        |              |      |            |       |           |        |
| Total  | 319908                             | 330144 |              |      | 56724      | 78151 | 376632    | 408295 |

**Over Last Year**

|      |        |        |         |  |       |      |        |        |
|------|--------|--------|---------|--|-------|------|--------|--------|
| DIFF | -29834 | -20864 |         |  | -5133 | 4336 | -34967 | -16528 |
| %Chg | -8.5   | -5.9   | #DIV/0! |  | -8.3  | 5.9  | -8.5   | -3.9   |

**QUALITY ANALYSED AT PLANT**

July 2018

बोकारो इस्पात संयंत्र

| लोह अयस्क लम्प |  |  |  |  |  | लोह अयस्क फाईन्स |  |  |  |  | FLUX |  |  |  |  |  |
|----------------|--|--|--|--|--|------------------|--|--|--|--|------|--|--|--|--|--|
|----------------|--|--|--|--|--|------------------|--|--|--|--|------|--|--|--|--|--|

| MINES |         | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%   | US%   | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%  | US%   | MINES |         | CaO% | MgO% | SiO <sub>2</sub> % | OS% | US% |
|-------|---------|-------|--------------------|----------------------------------|-------|-------|-------|--------------------|----------------------------------|------|-------|-------|---------|------|------|--------------------|-----|-----|
| KRB   | NORM    | 62.70 | 2.80               | 2.50                             | 0.00  | 10.00 | 62.50 | 3.20               | 2.60                             | 5.00 | 30.00 | BNP   | NORM    | 43   | 5    | 6.5                | 15  | 10  |
|       | MTH ACT | 62.50 | 3.98               | 1.64                             | 12.87 | 21.26 | 62.07 | 4.11               | 2.18                             | 9.46 | 30.44 |       | MTH ACT |      |      |                    |     |     |
| CUM   | 2018-19 | 62.68 | 3.39               | 1.92                             | 12.99 | 20.01 | 62.12 | 3.59               | 2.55                             | 9.71 | 30.20 | CUM   | 2018-19 |      |      |                    |     |     |
| CUM   | 2017-18 | 63.10 | 2.91               | 1.78                             | 13.55 | 20.35 | 62.29 | 3.38               | 2.47                             | 9.89 | 29.91 | CUM   | 2017-18 |      |      |                    |     |     |

|     |         |       |      |      |       |       |       |      |      |      |       |     |         |       |       |      |      |      |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|-----|---------|-------|-------|------|------|------|
| MBR | NORM    | 62.50 | 3.00 | 2.50 | 5.00  | 10.00 | 62.00 | 3.90 | 2.60 | 5.00 | 35.00 | TDM | NORM    | 30    | 18    | 5    | 5    | 10   |
|     | MTH ACT | 62.66 | 3.73 | 1.61 | 13.42 | 22.82 | 61.89 | 4.30 | 2.24 | 5.41 | 36.81 |     | MTH ACT | 31.13 | 20.53 | 4.95 | 4.60 | 8.58 |
| CUM | 2018-19 | 62.48 | 3.49 | 2.12 | 13.73 | 20.94 | 61.69 | 4.15 | 2.66 | 5.13 | 35.83 | CUM | 2018-19 | 30.27 | 20.29 | 4.99 | 4.29 | 8.68 |
| CUM | 2017-18 | 62.88 | 3.04 | 1.93 | 14.90 | 21.66 | 61.92 | 3.83 | 2.53 | 5.49 | 35.27 | CUM | 2017-18 | 29.75 | 18.89 | 5.47 | 5.92 | 9.88 |

|     |         |       |      |      |       |       |       |      |      |      |       |     |         |       |      |      |      |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|-----|---------|-------|------|------|------|-------|
| GUA | NORM    | 62.50 | 3.00 | 2.20 | 5.00  | 10.00 | 62.50 | 2.90 | 2.80 | 5.00 | 45.00 | KTR | NORM    | 50    | 2.25 | 3.5  | 5    | 5     |
|     | MTH ACT | 62.56 | 4.02 | 1.56 | 14.77 | 18.00 | 62.36 | 3.80 | 2.10 | 2.67 | 40.40 |     | MTH ACT | 45.60 | 2.29 | 3.74 | 4.66 | 25.57 |
| CUM | 2018-19 | 62.82 | 3.13 | 1.96 | 14.01 | 19.71 | 62.40 | 3.34 | 2.47 | 3.34 | 39.68 | CUM | 2018-19 | 44.77 | 2.26 | 3.68 | 4.53 | 25.27 |
| CUM | 2017-18 | 62.73 | 3.02 | 2.02 | 10.95 | 25.04 | 62.62 | 3.15 | 2.01 | 2.62 | 40.59 | CUM | 2017-18 | 45.56 | 2.57 | 3.33 | 4.00 | 26.14 |

|     |         |       |      |      |       |       |       |      |      |      |       |  |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|--|
| BOL | NORM    | 62.70 | 2.70 | 2.40 | 5.00  | 10.00 | 62.50 | 2.90 | 2.80 | 5.00 | 35.00 |  |
|     | MTH ACT | 62.61 | 3.59 | 1.93 | 14.32 | 23.81 | 62.26 | 3.55 | 2.41 | 5.22 | 34.85 |  |
| CUM | 2018-19 | 62.58 | 3.07 | 2.37 | 17.39 | 20.56 | 62.04 | 3.46 | 2.79 | 5.17 | 35.18 |  |
| CUM | 2017-18 | 62.98 | 2.78 | 1.98 | 16.54 | 21.21 | 62.19 | 3.30 | 2.60 | 5.68 | 34.46 |  |

|     |         |       |      |      |       |       |       |      |      |      |       |  |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|--|
| BAR | NORM    | 62.50 | 2.70 | 2.60 | 5.00  | 10.00 | 62.00 | 2.80 | 3.20 | 5.00 | 30.00 |  |
|     | MTH ACT | 62.27 | 2.66 | 3.74 | 15.40 | 22.45 | 61.81 | 3.35 | 3.61 | 5.33 | 37.24 |  |
| CUM | 2018-19 | 63.05 | 2.41 | 2.82 | 12.16 | 16.00 | 62.49 | 2.86 | 3.20 | 4.80 | 33.48 |  |
| CUM | 2017-18 |       |      |      |       |       |       |      |      |      |       |  |

|     |         |       |      |      |      |       |       |      |      |      |       |  |
|-----|---------|-------|------|------|------|-------|-------|------|------|------|-------|--|
| KAL | NORM    | 63.00 | 2.10 | 2.30 | 0.00 | 10.00 | 63.00 | 2.40 | 2.50 | 5.00 | 40.00 |  |
|     | MTH ACT | 63.33 | 2.42 | 2.42 | 8.48 | 12.10 | 63.11 | 2.54 | 2.75 | 5.00 | 30.40 |  |
| CUM | 2018-19 | 63.62 | 2.29 | 2.25 | 6.01 | 12.93 | 62.95 | 2.72 | 2.83 | 4.32 | 30.29 |  |
| CUM | 2017-18 | 64.36 | 1.80 | 1.50 | 6.76 | 12.44 | 63.70 | 2.20 | 1.90 | 4.30 | 29.54 |  |

|     |         |       |      |      |       |       |       |      |      |      |       |  |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|--|
| MPR | NORM    | 63.00 | 2.00 | 2.20 | 0.00  | 10.00 | 63.00 | 2.40 | 2.60 | 5.00 | 40.00 |  |
|     | MTH ACT | 64.22 | 1.91 | 1.77 | 11.35 | 11.83 | 63.36 | 2.31 | 2.37 | 4.42 | 30.22 |  |
| CUM | 2018-19 | 64.03 | 2.06 | 1.97 | 11.40 | 11.91 | 63.41 | 2.30 | 2.44 | 4.42 | 30.16 |  |
| CUM | 2017-18 | 64.61 | 1.57 | 1.42 | 10.76 | 12.45 | 63.59 | 2.12 | 2.17 | 4.41 | 30.08 |  |

|     |         |       |      |      |       |       |       |      |      |       |       |  |
|-----|---------|-------|------|------|-------|-------|-------|------|------|-------|-------|--|
| TAL | NORM    | 63.00 | 2.40 | 2.40 | 0.00  | 10.00 | 62.00 | 3.00 | 3.00 | 10.00 | 40.00 |  |
|     | MTH ACT | 61.76 | 3.37 | 3.85 | 18.00 | 28.80 | 62.33 | 2.95 | 3.33 | 4.68  | 30.72 |  |
| CUM | 2018-19 | 61.76 | 3.37 | 3.85 | 18.00 | 28.80 | 62.23 | 3.04 | 3.38 | 4.42  | 30.62 |  |
| CUM | 2017-18 | 63.54 | 2.25 | 1.92 | 7.48  | 13.66 | 62.64 | 2.64 | 3.03 | 4.60  | 29.80 |  |

**QUALITY ANALYSED AT PLANT**

July 2018

**दुर्गापुर इस्पात संयंत्र**

| लोह अयस्क लम्प |  |  |  |  |  | लोह अयस्क फाईन्स |  |  |  |  | FLUX |  |  |  |  |  |  |
|----------------|--|--|--|--|--|------------------|--|--|--|--|------|--|--|--|--|--|--|
|----------------|--|--|--|--|--|------------------|--|--|--|--|------|--|--|--|--|--|--|

| MINES |         | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%  | US%   | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%  | US%   | MINES  |         | CaO% | MgO% | SiO <sub>2</sub> % | OS% | US% |
|-------|---------|-------|--------------------|----------------------------------|------|-------|-------|--------------------|----------------------------------|------|-------|--------|---------|------|------|--------------------|-----|-----|
| KRB   | NORM    | 62.70 | 2.80               | 2.50                             | 0.00 | 10.00 | 62.50 | 3.20               | 2.60                             | 5.00 | 30.00 | BF LST | NORM    | 43   | 5    | 6.5                | 15  | 10  |
|       | MTH ACT |       |                    |                                  |      |       |       |                    |                                  |      |       | BNP    | MTH ACT |      |      |                    |     |     |
| CUM   | 2018-19 |       |                    |                                  |      |       |       |                    |                                  |      |       | CUM    | 2018-19 |      |      |                    |     |     |
| CUM   | 2017-18 | 63.30 | 2.70               | 1.90                             | 4.40 | 22.80 |       |                    |                                  |      |       | CUM    | 2017-18 |      |      |                    |     |     |

|     |         |       |      |      |       |       |       |      |      |      |       |     |         |       |       |      |       |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|-----|---------|-------|-------|------|-------|-------|
| MBR | NORM    | 62.50 | 3.00 | 2.50 | 5.00  | 10.00 | 62.00 | 3.90 | 2.60 | 5.00 | 35.00 | TDM | NORM    | 30    | 18    | 5    | 5     | 10    |
|     | MTH ACT |       |      |      |       |       | 61.98 | 3.98 | 1.32 | 2.20 | 36.50 |     | MTH ACT |       |       |      |       |       |
| CUM | 2018-19 | 62.80 | 2.60 | 2.00 | 17.60 | 4.20  | 61.35 | 3.61 | 2.51 | 4.01 | 44.37 | CUM | 2018-19 |       |       |      |       |       |
| CUM | 2017-18 | 62.78 | 2.70 | 1.23 | 12.60 | 19.89 | 62.92 | 3.45 | 2.03 | 3.94 | 47.59 | CUM | 2017-18 | 30.40 | 16.20 | 4.40 | 71.80 | 10.40 |

|     |         |       |      |      |       |       |       |      |      |      |       |     |         |       |      |      |       |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|-----|---------|-------|------|------|-------|-------|
| GUA | NORM    | 62.50 | 3.00 | 2.20 | 5.00  | 10.00 | 62.50 | 2.90 | 2.80 | 5.00 | 45.00 | KTR | NORM    | 50    | 2.25 | 3.5  | 5     | 5     |
|     | MTH ACT | 63.37 | 2.70 | 1.47 | 19.33 | 10.50 | 63.31 | 3.62 | 1.84 | 2.38 | 52.75 |     | MTH ACT | 46.50 | 1.75 | 5.00 | 23.75 | 17.60 |
| CUM | 2018-19 | 63.13 | 2.40 | 1.55 | 19.53 | 14.84 | 63.06 | 3.06 | 2.09 | 2.26 | 50.59 | CUM | 2018-19 | 48.18 | 1.87 | 4.08 | 24.55 | 19.12 |
| CUM | 2017-18 | 62.72 | 2.94 | 1.59 | 10.62 | 16.98 | 63.95 | 2.47 | 1.58 | 2.43 | 51.83 | CUM | 2017-18 | 45.70 | 2.28 | 4.53 | 31.28 | 11.88 |

|     |         |       |      |      |       |       |       |      |      |      |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|
| BOL | NORM    | 62.70 | 2.70 | 2.40 | 5.00  | 10.00 | 62.50 | 2.90 | 2.80 | 5.00 | 35.00 |
|     | MTH ACT | 62.16 | 2.78 | 1.83 | 15.89 | 19.00 | 62.06 | 3.34 | 2.88 | 4.10 | 40.17 |
| CUM | 2018-19 | 62.64 | 2.32 | 1.87 | 19.63 | 16.53 | 62.43 | 2.91 | 2.68 | 4.77 | 42.12 |
| CUM | 2017-18 | 62.70 | 2.27 | 1.95 | 15.32 | 15.19 | 62.89 | 2.69 | 2.26 | 5.71 | 41.45 |

|     |         |       |      |      |       |       |       |      |      |      |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|
| MPR | NORM    | 63.00 | 2.00 | 2.20 | 0.00  | 10.00 | 63.00 | 2.40 | 2.60 | 5.00 | 40.00 |
|     | MTH ACT |       |      |      |       |       |       |      |      |      |       |
| CUM | 2018-19 |       |      |      |       |       |       |      |      |      |       |
| CUM | 2017-18 | 61.70 | 1.75 | 3.95 | 11.55 | 44.60 |       |      |      |      |       |

**QUALITY ANALYSED AT PLANT**

July 2018

**राउरकेला इस्पात संयंत्र**

| लौह अयस्क लम्प |  |  |  |  |  | लौह अयस्क फाईन्स |  |  |  |  | FLUX |  |  |  |  |  |  |
|----------------|--|--|--|--|--|------------------|--|--|--|--|------|--|--|--|--|--|--|
|----------------|--|--|--|--|--|------------------|--|--|--|--|------|--|--|--|--|--|--|

| MINES |         | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%   | US%   | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%  | US%   | MINES |         | CaO% | MgO% | SiO <sub>2</sub> % | OS% | US% |
|-------|---------|-------|--------------------|----------------------------------|-------|-------|-------|--------------------|----------------------------------|------|-------|-------|---------|------|------|--------------------|-----|-----|
| KRB   | NORM    | 62.70 | 2.80               | 2.50                             | 0.00  | 10.00 | 62.50 | 3.20               | 2.60                             | 5.00 | 30.00 | BNP   | NORM    | 43   | 5    | 6.5                | 15  | 10  |
|       | MTH ACT | 62.64 | 3.09               | 2.80                             | 10.00 | 24.00 | 62.06 | 3.14               | 2.88                             | 7.40 | 34.40 |       | MTH ACT |      |      |                    |     |     |
| CUM   | 2018-19 | 62.82 | 2.92               | 2.72                             | 13.21 | 17.89 | 62.22 | 2.99               | 2.82                             | 6.95 | 33.75 | CUM   | 2018-19 |      |      |                    |     |     |
| CUM   | 2017-18 | 62.53 | 3.04               | 2.66                             | 14.17 | 21.64 | 62.19 | 3.08               | 2.51                             | 8.00 | 34.25 | CUM   | 2017-18 |      |      |                    |     |     |

|     |         |       |      |      |       |       |       |      |      |      |       |     |         |    |    |   |   |    |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|-----|---------|----|----|---|---|----|
| MBR | NORM    | 62.50 | 3.00 | 2.50 | 5.00  | 10.00 | 62.00 | 3.90 | 2.60 | 5.00 | 35.00 | TDM | NORM    | 30 | 18 | 5 | 5 | 10 |
|     | MTH ACT | 62.64 | 3.20 | 2.77 | 12.60 | 22.70 | 62.02 | 3.19 | 2.92 | 8.70 | 34.00 |     | MTH ACT |    |    |   |   |    |
| CUM | 2018-19 | 62.74 | 2.98 | 2.80 | 11.43 | 19.22 | 62.21 | 3.00 | 2.82 | 7.85 | 34.00 | CUM | 2018-19 |    |    |   |   |    |
| CUM | 2017-18 | 62.45 | 2.95 | 2.53 | 15.25 | 18.89 | 62.13 | 3.08 | 2.56 | 8.23 | 28.85 | CUM | 2017-18 |    |    |   |   |    |

|     |         |       |      |      |      |       |       |      |      |      |       |     |         |       |      |      |      |      |
|-----|---------|-------|------|------|------|-------|-------|------|------|------|-------|-----|---------|-------|------|------|------|------|
| GUA | NORM    | 62.50 | 3.00 | 2.20 | 5.00 | 10.00 | 62.50 | 2.90 | 2.80 | 5.00 | 45.00 | KTR | NORM    | 50.00 | 2.25 | 3.50 | 5.00 | 5.00 |
|     | MTH ACT |       |      |      |      |       |       |      |      |      |       |     | MTH ACT | 50.15 | 2.50 | 3.37 |      |      |
| CUM | 2018-19 |       |      |      |      |       |       |      |      |      |       | CUM | 2018-19 | 50.44 | 2.30 | 3.03 |      |      |
| CUM | 2017-18 |       |      |      |      |       |       |      |      |      |       | CUM | 2017-18 | 49.10 | 2.77 | 3.56 |      |      |

|     |         |       |      |      |      |       |       |      |      |       |       |
|-----|---------|-------|------|------|------|-------|-------|------|------|-------|-------|
| BAR | NORM    | 62.50 | 2.70 | 2.60 | 5.00 | 10.00 | 62.00 | 2.80 | 3.20 | 5.00  | 30.00 |
|     | MTH ACT | 62.42 | 2.99 | 3.22 | 9.10 | 24.50 | 61.83 | 3.21 | 3.16 | 7.20  | 34.30 |
| CUM | 2018-19 | 63.19 | 2.60 | 2.51 | 9.20 | 19.02 | 62.39 | 2.43 | 2.44 | 13.70 | 68.10 |
| CUM | 2017-18 |       |      |      |      |       |       |      |      |       |       |

|     |         |       |      |      |      |       |       |      |      |      |       |
|-----|---------|-------|------|------|------|-------|-------|------|------|------|-------|
| KAL | NORM    | 63.00 | 2.10 | 2.30 | 0.00 | 10.00 | 63.00 | 2.40 | 2.50 | 5.00 | 40.00 |
|     | MTH ACT | 63.40 | 2.52 | 2.14 | 9.90 | 16.90 | 62.93 | 2.37 | 2.43 | 7.60 | 34.00 |
| CUM | 2018-19 | 63.65 | 2.34 | 2.06 | 9.70 | 15.82 | 63.11 | 2.23 | 1.91 | 5.57 | 30.77 |
| CUM | 2017-18 | 63.36 | 2.08 | 2.07 | 9.81 | 16.57 | 63.00 | 2.26 | 2.14 | 7.35 | 28.90 |

|     |         |       |      |      |       |       |       |      |      |      |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|
| MPR | NORM    | 63.00 | 2.00 | 2.20 | 0.00  | 10.00 | 63.00 | 2.40 | 2.60 | 5.00 | 40.00 |
|     | MTH ACT | 63.45 | 2.44 | 2.30 | 13.50 | 17.50 | 62.70 | 2.75 | 2.45 | 8.00 | 32.00 |
| CUM | 2018-19 | 63.56 | 2.43 | 2.15 | 15.90 | 15.16 | 62.90 | 2.72 | 2.55 | 7.67 | 32.33 |
| CUM | 2017-18 | 63.44 | 2.07 | 2.14 | 16.32 | 17.40 | 62.54 | 2.53 | 2.58 | 5.66 | 30.75 |

|     |         |       |      |      |       |       |       |      |      |       |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|-------|-------|
| TAL | NORM    | 63.00 | 2.40 | 2.40 | 0.00  | 10.00 | 62.00 | 3.00 | 3.00 | 10.00 | 40.00 |
|     | MTH ACT | 63.45 | 2.40 | 2.27 | 9.80  | 17.80 |       |      |      |       |       |
| CUM | 2018-19 | 63.49 | 2.42 | 2.24 | 9.49  | 17.61 |       |      |      |       |       |
| CUM | 2017-18 | 63.44 | 2.12 | 2.05 | 10.23 | 16.33 |       |      |      |       |       |

**QUALITY ANALYSED AT PLANT**

July 2018

**बर्नपुर इस्पात संयंत्र**

| लौह अयस्क लम्प | लौह अयस्क फाईन्स | FLUX |
|----------------|------------------|------|
|----------------|------------------|------|

| MINES |         | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%   | US%   | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%   | US%   | MINES |         | CaO% | MgO% | SiO <sub>2</sub> % | OS% | US% |
|-------|---------|-------|--------------------|----------------------------------|-------|-------|-------|--------------------|----------------------------------|-------|-------|-------|---------|------|------|--------------------|-----|-----|
| KRB   | NORM    | 62.70 | 2.80               | 2.50                             | 0.00  | 10.00 | 62.50 | 3.20               | 2.60                             | 5.00  | 30.00 | BNP   | NORM    | 43   | 5    | 6.5                | 15  | 10  |
|       | MTH ACT |       |                    |                                  |       |       |       |                    |                                  |       |       |       | MTH ACT |      |      |                    |     |     |
| CUM   | 2018-19 |       |                    |                                  |       |       | 63.70 | 2.24               | 3.35                             | 13.13 | 41.97 | CUM   | 2018-19 |      |      |                    |     |     |
| CUM   | 2017-18 | 63.51 | 3.36               | 2.02                             | 23.17 | 1.00  | 62.59 | 2.62               | 3.35                             | 9.30  | 42.42 | CUM   | 2017-18 |      |      |                    |     |     |

|     |         |       |      |      |       |       |       |      |      |      |       |     |         |    |    |   |   |    |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|-----|---------|----|----|---|---|----|
| MBR | NORM    | 62.50 | 3.00 | 2.50 | 5.00  | 10.00 | 62.00 | 3.90 | 2.60 | 5.00 | 35.00 | TDM | NORM    | 30 | 18 | 5 | 5 | 10 |
|     | MTH ACT |       |      |      |       |       |       |      |      |      |       |     | MTH ACT |    |    |   |   |    |
| CUM | 2018-19 | 64.79 | 1.47 | 1.18 | 66.82 | 0.70  | 60.86 | 4.31 | 3.76 | 6.19 | 42.61 | CUM | 2018-19 |    |    |   |   |    |
| CUM | 2017-18 | 61.13 | 1.87 | 4.21 | 19.60 |       | 62.01 | 3.55 | 3.53 | 7.77 | 38.51 | CUM | 2017-18 |    |    |   |   |    |

|     |         |       |      |      |       |       |       |      |      |      |       |     |         |    |      |     |   |   |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|-----|---------|----|------|-----|---|---|
| GUA | NORM    | 62.50 | 3.00 | 2.20 | 5.00  | 10.00 | 62.50 | 2.90 | 2.80 | 5.00 | 45.00 | KTR | NORM    | 50 | 2.25 | 3.5 | 5 | 5 |
|     | MTH ACT | 62.32 | 4.96 | 1.56 | 14.36 | 5.84  | 63.32 | 3.56 | 2.07 | 5.44 | 45.61 |     | MTH ACT |    |      |     |   |   |
| CUM | 2018-19 | 63.33 | 2.65 | 1.98 | 15.62 | 1.59  | 62.95 | 3.30 | 2.33 | 4.57 | 51.51 | CUM | 2018-19 |    |      |     |   |   |
| CUM | 2017-18 | 62.82 | 2.93 | 2.43 | 22.20 | 2.50  | 62.95 | 2.83 | 2.75 | 3.39 | 50.66 | CUM | 2017-18 |    |      |     |   |   |

|     |         |       |      |      |       |       |       |      |      |      |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|
| BOL | NORM    | 62.70 | 2.70 | 2.40 | 5.00  | 10.00 | 62.50 | 2.90 | 2.80 | 5.00 | 35.00 |
|     | MTH ACT | 63.07 | 3.31 | 1.84 | 18.78 | 1.41  | 61.42 | 4.23 | 3.19 | 9.16 | 36.21 |
| CUM | 2018-19 | 63.08 | 2.80 | 2.19 | 21.46 | 0.93  | 61.72 | 3.58 | 3.39 | 8.15 | 41.73 |
| CUM | 2017-18 | 62.64 | 2.81 | 3.01 | 17.15 | 5.55  | 62.37 | 2.93 | 3.14 | 9.05 | 42.61 |

|     |         |       |      |      |       |       |       |      |      |       |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|-------|-------|
| KAL | NORM    | 63.00 | 2.10 | 2.30 | 0.00  | 10.00 | 63.00 | 2.40 | 2.50 | 5.00  | 40.00 |
|     | MTH ACT |       |      |      |       |       |       |      |      |       |       |
| CUM | 2018-19 |       |      |      |       |       |       |      |      |       |       |
| CUM | 2017-18 | 62.35 | 2.50 | 3.48 | 19.01 | 4.80  | 61.49 | 3.35 | 4.21 | 13.07 | 35.28 |

|     |         |       |      |      |       |       |       |      |      |      |       |
|-----|---------|-------|------|------|-------|-------|-------|------|------|------|-------|
| MPR | NORM    | 63.00 | 2.00 | 2.20 | 0.00  | 10.00 | 63.00 | 2.40 | 2.60 | 5.00 | 40.00 |
|     | MTH ACT |       |      |      |       |       |       |      |      |      |       |
| CUM | 2018-19 | 63.04 | 2.70 | 2.04 | 21.63 | 4.03  | 63.22 | 3.69 | 1.78 | 2.82 | 61.50 |
| CUM | 2017-18 | 62.41 | 2.41 | 3.68 | 23.83 | 4.96  | 61.01 | 3.09 | 4.95 | 3.76 | 43.00 |

|     |         |       |      |      |      |       |       |      |      |       |       |
|-----|---------|-------|------|------|------|-------|-------|------|------|-------|-------|
| TAL | NORM    | 63.00 | 2.40 | 2.40 | 0.00 | 10.00 | 62.00 | 3.00 | 3.00 | 10.00 | 40.00 |
|     | MTH ACT |       |      |      |      |       |       |      |      |       |       |
| CUM | 2018-19 |       |      |      |      |       |       |      |      |       |       |
| CUM | 2017-18 | 62.21 | 2.40 | 4.23 | 6.41 | 4.57  |       |      |      |       |       |

**QUALITY ANALYSED AT PLANT**

July 2018

**भिलाई इस्पात संयंत्र**

| लौह अयस्क लम्प | लौह अयस्क फाईन्स | FLUX |
|----------------|------------------|------|
|----------------|------------------|------|

| MINES |         | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%  | US%   | Fe%   | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | OS%  | US%   | MINES |         | CaO% | MgO% | SiO <sub>2</sub> % | OS%  | US%  |
|-------|---------|-------|--------------------|----------------------------------|------|-------|-------|--------------------|----------------------------------|------|-------|-------|---------|------|------|--------------------|------|------|
| KRB   | NORM    | 62.70 | 2.80               | 2.50                             | 0.00 | 10.00 | 62.50 | 3.20               | 2.60                             | 5.00 | 30.00 | BNP   | NORM    | 43.0 | 5.00 | 6.5                | 15.0 | 10.0 |
|       | MTH ACT |       |                    |                                  |      |       |       |                    |                                  |      |       |       | MTH ACT |      |      |                    |      |      |
| CUM   | 2018-19 |       |                    |                                  |      |       |       |                    |                                  |      |       | CUM   | 2018-19 |      |      |                    |      |      |
| CUM   | 2017-18 |       |                    |                                  |      |       |       |                    |                                  |      |       | CUM   | 2017-18 |      |      |                    |      |      |

|     |         |       |      |      |      |       |       |      |      |      |       |     |         |      |      |     |     |      |
|-----|---------|-------|------|------|------|-------|-------|------|------|------|-------|-----|---------|------|------|-----|-----|------|
| MBR | NORM    | 62.50 | 3.00 | 2.50 | 5.00 | 10.00 | 62.00 | 3.90 | 2.60 | 5.00 | 35.00 | TDM | NORM    | 30.0 | 18.0 | 5.0 | 5.0 | 10.0 |
|     | MTH ACT |       |      |      |      |       |       |      |      |      |       |     | MTH ACT |      |      |     |     |      |
| CUM | 2018-19 |       |      |      |      |       |       |      |      |      |       | CUM | 2018-19 |      |      |     |     |      |
| CUM | 2017-18 |       |      |      |      |       |       |      |      |      |       | CUM | 2017-18 |      |      |     |     |      |

|     |         |       |      |      |      |       |       |      |      |      |       |     |         |       |      |      |      |       |
|-----|---------|-------|------|------|------|-------|-------|------|------|------|-------|-----|---------|-------|------|------|------|-------|
| GUA | NORM    | 62.50 | 3.00 | 2.20 | 5.00 | 10.00 | 62.50 | 2.90 | 2.80 | 5.00 | 45.00 | KTR | NORM    | 50.0  | 2.25 | 3.50 | 5.0  | 5.0   |
|     | MTH ACT |       |      |      |      |       |       |      |      |      |       |     | MTH ACT | 49.35 | 2.65 | 3.89 | 9.43 | 18.85 |
| CUM | 2018-19 |       |      |      |      |       |       |      |      |      |       | CUM | 2018-19 | 49.69 | 2.39 | 3.96 | 8.39 | 17.07 |
| CUM | 2017-18 |       |      |      |      |       |       |      |      |      |       | CUM | 2017-18 | 50.46 | 1.89 | 3.64 | 7.16 | 18.33 |

|     |         |       |      |      |      |       |       |      |      |       |       |
|-----|---------|-------|------|------|------|-------|-------|------|------|-------|-------|
| TAL | NORM    | 63.00 | 2.40 | 2.40 | 0.00 | 10.00 | 62.00 | 3.00 | 3.00 | 10.00 | 40.00 |
|     | MTH ACT |       |      |      |      |       |       |      |      |       |       |
| CUM | 2018-19 |       |      |      |      |       |       |      |      |       |       |
| CUM | 2017-18 |       |      |      |      |       |       |      |      |       |       |

गृणवत्ता :: बोकारो इस्पात संयंत्र  
किरीबुरु लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 63.10 | 2.91 | 1.78  | 13.55 | 20.35 | 4.69  | 0.61  | 430772 |
| APP 18-19 | 62.70 | 2.80 | 2.50  |       | 10.00 | 5.30  | 0.89  | 750000 |
| Apr-18    | 62.65 | 3.36 | 1.99  | 13.76 | 20.66 | 5.35  | 0.59  | 22635  |
| May-18    | 62.85 | 3.15 | 1.95  | 13.00 | 18.64 | 5.10  | 0.62  | 41643  |
| Jun-18    | 62.72 | 3.08 | 2.08  | 12.34 | 19.46 | 5.16  | 0.68  | 22499  |
| Jul-18    | 62.50 | 3.98 | 1.64  | 12.87 | 21.26 | 5.62  | 0.41  | 54543  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 62.68 | 3.39 | 1.92  | 12.99 | 20.01 | 5.31  | 0.57  | 141320 |

मेघाहातुबुरु

लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.88 | 3.04 | 1.93  | 14.90 | 21.66 | 4.97  | 0.63  | 618605 |
| APP 18-19 | 62.50 | 3.00 | 2.50  | 5.00  | 10.00 | 5.50  | 0.83  | 800000 |
| Apr-18    | 62.73 | 3.04 | 2.14  | 15.09 | 18.63 | 5.18  | 0.70  | 66995  |
| May-18    | 62.05 | 3.76 | 2.42  | 10.71 | 21.07 | 6.18  | 0.64  | 22664  |
| Jun-18    | 62.48 | 3.41 | 2.30  | 15.69 | 21.23 | 5.71  | 0.67  | 29323  |
| Jul-18    | 62.66 | 3.73 | 1.61  | 13.42 | 22.82 | 5.34  | 0.43  | 22627  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 62.48 | 3.49 | 2.12  | 13.73 | 20.94 | 5.61  | 0.61  | 141609 |

गृणवत्ता :: बोकारो इस्पात संयंत्र  
किरीबुरु फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.29 | 3.38 | 2.47  | 9.89  | 29.91 | 5.85  | 0.73  | 979855 |
| APP 18-19 | 62.50 | 3.20 | 2.60  | 5.00  | 30.00 | 5.80  | 0.81  | 950000 |
| Apr-18    | 62.16 | 3.30 | 2.69  | 9.75  | 29.15 | 5.99  | 0.82  | 102103 |
| May-18    | 62.00 | 3.45 | 2.79  | 10.62 | 30.61 | 6.24  | 0.81  | 65712  |
| Jun-18    | 62.23 | 3.50 | 2.54  | 9.00  | 30.61 | 6.04  | 0.73  | 95612  |
| Jul-18    | 62.07 | 4.11 | 2.18  | 9.46  | 30.44 | 6.29  | 0.53  | 88348  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 62.12 | 3.59 | 2.55  | 9.71  | 30.20 | 6.14  | 0.71  | 351775 |

मेघाहातुबुरु

फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|------|-------|-------|-------|--------|
| Act 17-18 | 61.92 | 3.83 | 2.53  | 5.49 | 35.27 | 6.36  | 0.66  | #####  |
| APP 18-19 | 62.00 | 3.90 | 2.60  | 5.00 | 35.00 | 6.50  | 0.67  | 920000 |
| Apr-18    | 61.76 | 3.78 | 2.86  | 5.37 | 33.93 | 6.64  | 0.76  | 84581  |
| May-18    | 61.51 | 4.14 | 2.92  | 5.05 | 36.15 | 7.06  | 0.71  | 120516 |
| Jun-18    | 61.58 | 4.39 | 2.63  | 4.69 | 36.41 | 7.02  | 0.60  | 136452 |
| Jul-18    | 61.89 | 4.30 | 2.24  | 5.41 | 36.81 | 6.54  | 0.52  | 57099  |
| Aug-18    |       |      |       |      |       |       |       |        |
| Sep-18    |       |      |       |      |       |       |       |        |
| Oct-18    |       |      |       |      |       |       |       |        |
| Nov-18    |       |      |       |      |       |       |       |        |
| Dec-18    |       |      |       |      |       |       |       |        |
| Jan-19    |       |      |       |      |       |       |       |        |
| Feb-19    |       |      |       |      |       |       |       |        |
| Mar-19    |       |      |       |      |       |       |       |        |
| CUMML     | 61.69 | 4.15 | 2.66  | 5.13 | 35.83 | 6.81  | 0.64  | 398648 |

गृणवत्ता :: बोकारो इस्पात संयंत्र  
बोलानी लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.98 | 2.78 | 1.98  | 16.54 | 21.21 | 4.76  | 0.71  | 590924 |
| APP 18-19 | 62.70 | 2.70 | 2.40  | 5.00  | 10.00 | 5.10  | 0.89  | 400000 |
| Apr-18    | 62.33 | 2.83 | 2.80  | 22.21 | 15.97 | 5.63  | 0.99  | 17573  |
| May-18    | 62.81 | 2.78 | 2.27  | 14.10 | 19.99 | 5.05  | 0.82  | 30187  |
| Jun-18    | 62.57 | 3.08 | 2.47  | 18.92 | 22.47 | 5.55  | 0.80  | 45193  |
| Jul-18    | 62.61 | 3.59 | 1.93  | 14.32 | 23.81 | 5.52  | 0.54  | 70048  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 62.58 | 3.07 | 2.37  | 17.39 | 20.56 | 5.44  | 0.77  | 163001 |

गुआ

लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.73 | 3.02 | 2.02  | 10.95 | 25.04 | 5.04  | 0.67  | 187312 |
| APP 18-19 | 62.50 | 3.00 | 2.20  |       | 10.00 | 5.20  | 0.73  | 100000 |
| Apr-18    | 62.52 | 3.41 | 1.98  | 22.30 | 16.13 | 5.39  | 0.58  | 1660   |
| May-18    | 63.22 | 2.08 | 2.12  | 8.85  | 21.25 | 4.20  | 1.02  | 1615   |
| Jun-18    | 62.96 | 3.01 | 2.16  | 10.10 | 23.45 | 5.17  | 0.72  | 1651   |
| Jul-18    | 62.56 | 4.02 | 1.56  | 14.77 | 18.00 | 5.58  | 0.39  | 3473   |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 62.82 | 3.13 | 1.96  | 14.01 | 19.71 | 5.09  | 0.63  | 8399   |

गृणवत्ता :: बोकारो इस्पात संयंत्र  
बोलानी फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------|-------|------|-------|-------|-------|---------|
| Act 17-18 | 62.19 | 3.30 | 2.60  | 5.68 | 34.46 | 5.90  | 0.79  | 927759  |
| APP 18-19 | 62.50 | 2.90 | 2.80  | 5.00 | 35.00 | 5.70  | 0.97  | 1500000 |
| Apr-18    | 61.93 | 3.43 | 2.90  | 4.89 | 33.62 | 6.33  | 0.85  | 47506   |
| May-18    | 61.92 | 3.39 | 2.99  | 5.25 | 36.56 | 6.38  | 0.88  | 86173   |
| Jun-18    | 62.04 | 3.48 | 2.84  | 5.33 | 35.70 | 6.32  | 0.82  | 57728   |
| Jul-18    | 62.26 | 3.55 | 2.41  | 5.22 | 34.85 | 5.96  | 0.68  | 48644   |
| Aug-18    |       |      |       |      |       |       |       |         |
| Sep-18    |       |      |       |      |       |       |       |         |
| Oct-18    |       |      |       |      |       |       |       |         |
| Nov-18    |       |      |       |      |       |       |       |         |
| Dec-18    |       |      |       |      |       |       |       |         |
| Jan-19    |       |      |       |      |       |       |       |         |
| Feb-19    |       |      |       |      |       |       |       |         |
| Mar-19    |       |      |       |      |       |       |       |         |
| CUMML     | 62.04 | 3.46 | 2.79  | 5.17 | 35.18 | 6.25  | 0.81  | 240051  |

गुआ

फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|------|-------|-------|-------|--------|
| Act 17-18 | 62.62 | 3.15 | 2.01  | 2.62 | 40.59 | 5.16  | 0.64  | 547133 |
| APP 18-19 | 62.50 | 2.90 | 2.80  | 5.00 | 45.00 | 5.70  | 0.97  |        |
| Apr-18    | 63.18 | 2.57 | 2.09  | 3.67 | 40.33 | 4.66  | 0.81  | 8684   |
| May-18    | 61.74 | 3.66 | 2.96  | 3.20 | 39.67 | 6.62  | 0.81  | 5013   |
| Jun-18    | 62.32 | 3.33 | 2.74  | 3.80 | 38.30 | 6.07  | 0.82  | 5188   |
| Jul-18    | 62.36 | 3.80 | 2.10  | 2.67 | 40.40 | 5.90  | 0.55  | 11177  |
| Aug-18    |       |      |       |      |       |       |       |        |
| Sep-18    |       |      |       |      |       |       |       |        |
| Oct-18    |       |      |       |      |       |       |       |        |
| Nov-18    |       |      |       |      |       |       |       |        |
| Dec-18    |       |      |       |      |       |       |       |        |
| Jan-19    |       |      |       |      |       |       |       |        |
| Feb-19    |       |      |       |      |       |       |       |        |
| Mar-19    |       |      |       |      |       |       |       |        |
| CUMML     | 62.40 | 3.34 | 2.47  | 3.34 | 39.68 | 5.81  | 0.74  | 30062  |



गृणवत्ता :: दर्गापूर इस्पात संयंत्र

बोलानी

लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------|-------|-------|-------|-------|-------|---------|
| Act 17-18 | 62.70 | 2.27 | 1.95  | 15.32 | 15.19 | 4.22  | 0.86  | 865420  |
| APP 18-19 | 62.70 | 2.70 | 2.40  | 5.00  | 10.00 | 5.10  | 0.89  | 1200000 |
| Apr-18    | 63.30 | 1.81 | 1.93  | 24.43 | 14.42 | 3.74  | 1.07  | 71959   |
| May-18    | 62.67 | 2.21 | 1.67  | 18.58 | 16.41 | 3.88  | 0.76  | 77351   |
| Jun-18    | 62.44 | 2.49 | 2.05  | 19.60 | 16.29 | 4.54  | 0.82  | 118300  |
| Jul-18    | 62.16 | 2.78 | 1.83  | 15.89 | 19.00 | 4.61  | 0.66  | 71825   |
| Aug-18    |       |      |       |       |       |       |       |         |
| Sep-18    |       |      |       |       |       |       |       |         |
| Oct-18    |       |      |       |       |       |       |       |         |
| Nov-18    |       |      |       |       |       |       |       |         |
| Dec-18    |       |      |       |       |       |       |       |         |
| Jan-19    |       |      |       |       |       |       |       |         |
| Feb-19    |       |      |       |       |       |       |       |         |
| Mar-19    |       |      |       |       |       |       |       |         |
| CUMML     | 62.64 | 2.32 | 1.87  | 19.63 | 16.53 | 4.19  | 0.81  | 339435  |

गुआ

लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.72 | 2.94 | 1.59  | 10.62 | 16.98 | 4.53  | 0.54  | 449086 |
| APP 18-19 | 62.50 | 3.00 | 2.20  |       | 10.00 | 5.20  | 0.73  | 550000 |
| Apr-18    | 62.83 | 2.63 | 1.70  | 27.93 | 11.32 | 4.33  | 0.65  | 38916  |
| May-18    | 63.13 | 2.58 | 1.49  | 17.07 | 17.08 | 4.07  | 0.58  | 52845  |
| Jun-18    | 63.18 | 1.70 | 1.53  | 13.78 | 20.45 | 3.23  | 0.90  | 21840  |
| Jul-18    | 63.37 | 2.70 | 1.47  | 19.33 | 10.50 | 4.17  | 0.54  | 35945  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 63.13 | 2.40 | 1.55  | 19.53 | 14.84 | 3.95  | 0.65  | 149546 |

गृणवत्ता :: दर्गापूर इस्पात संयंत्र

बोलानी

फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------|-------|------|-------|-------|-------|---------|
| Act 17-18 | 62.89 | 2.69 | 2.26  | 5.71 | 41.45 | 4.95  | 0.84  | 1354907 |
| APP 18-19 | 62.50 | 2.90 | 2.80  | 5.00 | 35.00 | 5.70  | 0.97  | 1600000 |
| Apr-18    | 63.06 | 2.41 | 2.41  | 6.27 | 42.42 | 4.82  | 1.00  | 134355  |
| May-18    | 62.46 | 2.96 | 2.57  | 4.14 | 43.00 | 5.53  | 0.87  | 136018  |
| Jun-18    | 62.22 | 2.90 | 2.76  | 4.57 | 42.72 | 5.66  | 0.95  | 137085  |
| Jul-18    | 62.06 | 3.34 | 2.88  | 4.10 | 40.17 | 6.22  | 0.86  | 135720  |
| Aug-18    |       |      |       |      |       |       |       |         |
| Sep-18    |       |      |       |      |       |       |       |         |
| Oct-18    |       |      |       |      |       |       |       |         |
| Nov-18    |       |      |       |      |       |       |       |         |
| Dec-18    |       |      |       |      |       |       |       |         |
| Jan-19    |       |      |       |      |       |       |       |         |
| Feb-19    |       |      |       |      |       |       |       |         |
| Mar-19    |       |      |       |      |       |       |       |         |
| CUMML     | 62.43 | 2.91 | 2.68  | 4.77 | 42.12 | 5.59  | 0.92  | 543178  |

गुआ

फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------|-------|------|-------|-------|-------|---------|
| Act 17-18 | 63.95 | 2.47 | 1.58  | 2.43 | 51.83 | 4.05  | 0.64  | 1014985 |
| APP 18-19 | 62.50 | 2.90 | 2.80  | 5.00 | 45.00 | 5.70  | 0.97  | 920000  |
| Apr-18    | 63.01 | 2.75 | 2.17  | 2.34 | 49.07 | 4.92  | 0.79  | 99970   |
| May-18    | 62.75 | 3.20 | 2.22  | 2.21 | 48.95 | 5.42  | 0.69  | 103470  |
| Jun-18    | 63.15 | 2.66 | 2.13  | 2.09 | 51.59 | 4.79  | 0.80  | 59930   |
| Jul-18    | 63.31 | 3.62 | 1.84  | 2.38 | 52.75 | 5.46  | 0.51  | 75790   |
| Aug-18    |       |      |       |      |       |       |       |         |
| Sep-18    |       |      |       |      |       |       |       |         |
| Oct-18    |       |      |       |      |       |       |       |         |
| Nov-18    |       |      |       |      |       |       |       |         |
| Dec-18    |       |      |       |      |       |       |       |         |
| Jan-19    |       |      |       |      |       |       |       |         |
| Feb-19    |       |      |       |      |       |       |       |         |
| Mar-19    |       |      |       |      |       |       |       |         |
| CUMML     | 63.06 | 3.06 | 2.09  | 2.26 | 50.59 | 5.15  | 0.68  | 339160  |

गुणवत्ता :: राउरकेला इस्पात संयंत्र  
किरीबुरु लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.53 | 3.04 | 2.66  | 14.17 | 21.64 | 5.70  | 0.88  | 769889 |
| APP 18-19 | 62.70 | 2.80 | 2.50  | 5.00  | 10.00 | 5.30  | 0.89  | 350000 |
| Apr-18    | 62.87 | 2.99 | 2.60  | 17.10 | 15.70 | 5.59  | 0.87  | 61666  |
| May-18    | 62.95 | 2.71 | 2.73  | 10.10 | 17.90 | 5.44  | 1.01  | 45872  |
| Jun-18    | 62.74 | 2.90 | 2.79  | 13.30 | 16.70 | 5.69  | 0.96  | 50203  |
| Jul-18    | 62.64 | 3.09 | 2.80  | 10.00 | 24.00 | 5.89  | 0.91  | 35336  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 62.82 | 2.92 | 2.72  | 13.21 | 17.89 | 5.64  | 0.93  | 193077 |

मेघाहातुबुरु लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.45 | 2.95 | 2.53  | 15.25 | 18.89 | 5.48  | 0.86  | 522785 |
| APP 18-19 | 62.50 | 3.00 | 2.50  | 5.00  | 10.00 | 5.50  | 0.83  | 350000 |
| Apr-18    | 62.70 | 3.01 | 2.78  | 13.60 | 15.80 | 5.79  | 0.92  | 54543  |
| May-18    | 62.90 | 2.70 | 2.84  | 8.50  | 18.70 | 5.54  | 1.05  | 58505  |
| Jun-18    | 62.65 | 3.08 | 2.80  | 11.60 | 19.20 | 5.88  | 0.91  | 24281  |
| Jul-18    | 62.64 | 3.20 | 2.77  | 12.60 | 22.70 | 5.97  | 0.87  | 63377  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 62.74 | 2.98 | 2.80  | 11.43 | 19.22 | 5.78  | 0.94  | 200706 |

बरसुआ लम्प

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|------|-------|-------|-------|--------|
| Act 17-18 |       |      |       |      |       |       |       |        |
| APP 18-19 | 62.50 | 2.70 | 2.60  | 5.00 | 10.00 | 5.30  | 0.96  | 480000 |
| Apr-18    |       |      |       |      |       |       |       |        |
| May-18    |       |      |       |      |       |       |       |        |
| Jun-18    | 63.38 | 2.43 | 2.38  | 9.80 | 20.20 | 4.81  | 0.98  | 35710  |
| Jul-18    | 62.42 | 2.99 | 3.22  | 9.10 | 24.50 | 6.21  | 1.08  | 68820  |
| Aug-18    |       |      |       |      |       |       |       |        |
| Sep-18    |       |      |       |      |       |       |       |        |
| Oct-18    |       |      |       |      |       |       |       |        |
| Nov-18    |       |      |       |      |       |       |       |        |
| Dec-18    |       |      |       |      |       |       |       |        |
| Jan-19    |       |      |       |      |       |       |       |        |
| Feb-19    |       |      |       |      |       |       |       |        |
| Mar-19    |       |      |       |      |       |       |       |        |
| CUMML     | 63.19 | 2.60 | 2.51  | 9.20 | 19.02 | 5.11  | 0.97  | 104530 |

गुणवत्ता :: राउरकेला इस्पात संयंत्र  
किरीबुरु फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------|-------|------|-------|-------|-------|---------|
| Act 17-18 | 62.19 | 3.08 | 2.51  | 8.00 | 34.25 | 5.59  | 0.81  | 1704562 |
| APP 18-19 | 62.50 | 3.20 | 2.60  | 5.00 | 30.00 | 5.80  | 0.81  | 1330000 |
| Apr-18    | 62.31 | 2.97 | 2.71  |      |       | 5.68  | 0.91  | 112166  |
| May-18    | 62.25 | 2.88 | 2.90  |      |       | 5.78  | 1.01  | 145857  |
| Jun-18    | 62.27 | 2.97 | 2.78  | 6.50 | 33.10 | 5.75  | 0.94  | 155160  |
| Jul-18    | 62.06 | 3.14 | 2.88  | 7.40 | 34.40 | 6.02  | 0.92  | 138079  |
| Aug-18    |       |      |       |      |       |       |       |         |
| Sep-18    |       |      |       |      |       |       |       |         |
| Oct-18    |       |      |       |      |       |       |       |         |
| Nov-18    |       |      |       |      |       |       |       |         |
| Dec-18    |       |      |       |      |       |       |       |         |
| Jan-19    |       |      |       |      |       |       |       |         |
| Feb-19    |       |      |       |      |       |       |       |         |
| Mar-19    |       |      |       |      |       |       |       |         |
| CUMML     | 62.22 | 2.99 | 2.82  | 6.95 | 33.75 | 5.81  | 0.94  | 551262  |

मेघाहातुबुरु फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------|-------|------|-------|-------|-------|---------|
| Act 17-18 | 62.13 | 3.08 | 2.56  | 8.23 | 28.85 | 5.64  | 0.83  | 1237388 |
| APP 18-19 | 62.00 | 3.90 | 2.60  | 5.00 | 35.00 | 6.50  | 0.67  | 700000  |
| Apr-18    | 62.31 | 2.94 | 2.76  |      |       | 5.70  | 0.94  | 94838   |
| May-18    | 62.21 | 2.91 | 2.89  |      |       | 5.80  | 0.99  | 89852   |
| Jun-18    | 62.29 | 2.95 | 2.73  | 7.00 | 34.00 | 5.68  | 0.93  | 109813  |
| Jul-18    | 62.02 | 3.19 | 2.92  | 8.70 | 34.00 | 6.11  | 0.92  | 93630   |
| Aug-18    |       |      |       |      |       |       |       |         |
| Sep-18    |       |      |       |      |       |       |       |         |
| Oct-18    |       |      |       |      |       |       |       |         |
| Nov-18    |       |      |       |      |       |       |       |         |
| Dec-18    |       |      |       |      |       |       |       |         |
| Jan-19    |       |      |       |      |       |       |       |         |
| Feb-19    |       |      |       |      |       |       |       |         |
| Mar-19    |       |      |       |      |       |       |       |         |
| CUMML     | 62.21 | 3.00 | 2.82  | 7.85 | 34.00 | 5.82  | 0.94  | 388133  |

बरसुआ फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 |       |      |       |       |       |       |       |        |
| APP 18-19 | 62.00 | 2.80 | 3.20  | 5.00  | 30.00 | 6.00  | 1.14  | 670000 |
| Apr-18    |       |      |       |       |       |       |       |        |
| May-18    | 62.00 | 3.00 | 3.20  |       |       | 6.20  | 1.07  | 3191   |
| Jun-18    | 62.18 | 2.98 | 2.81  | 6.50  | 33.80 | 5.79  | 0.94  | 16099  |
| Jul-18    | 61.83 | 3.21 | 3.16  | 7.20  | 34.30 | 6.37  | 0.98  | 29155  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMML     | 62.39 | 2.43 | 2.44  | 13.70 | 68.10 | 4.87  | 1.00  | 48445  |

## गणवत्ता :: राउरकेला इस्पात संयंत्र

लम्प

कास्ट

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECEPT |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 63.36 | 2.08 | 2.07  | 9.81  | 16.57 | 4.15  | 1.00  | 490459 |
| APP 18-19 | 63.00 | 2.10 | 2.30  | 5.00  | 10.00 | 4.40  | 1.10  | 800000 |
| Apr-18    | 63.68 | 2.38 | 1.94  | 8.50  | 15.30 | 4.32  | 0.82  | 17825  |
| May-18    | 63.64 | 2.30 | 2.18  | 11.00 | 15.30 | 4.48  | 0.95  | 18899  |
| Jun-18    | 63.93 | 2.12 | 1.97  | 9.30  | 15.70 | 4.09  | 0.93  | 14929  |
| Jul-18    | 63.40 | 2.52 | 2.14  | 9.90  | 16.90 | 4.66  | 0.85  | 19332  |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMMIL    | 63.65 | 2.34 | 2.06  | 9.70  | 15.82 | 4.40  | 0.88  | 70985  |

मनोहरपुर लम्प

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECEPT |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 | 63.44 | 2.07 | 2.14  | 16.32 | 17.40 | 4.21  | 1.03  | 18583  |
| APP 18-19 | 63.00 | 2.00 | 2.20  |       | 10.00 | 4.20  | 1.10  |        |
| Apr-18    | 63.74 | 2.25 | 1.79  | 17.00 | 13.00 | 4.04  | 0.80  | 7110   |
| May-18    | 63.60 | 2.51 | 2.11  | 15.00 | 15.00 | 4.62  | 0.84  | 18391  |
| Jun-18    | 63.43 | 2.42 | 2.37  | 18.30 | 15.30 | 4.79  | 0.98  | 10283  |
| Jul-18    | 63.45 | 2.44 | 2.30  | 13.50 | 17.50 | 4.74  | 0.94  | 7117   |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMMIL    | 63.56 | 2.43 | 2.15  | 15.90 | 15.16 | 4.58  | 0.88  | 42901  |

तल्कीह

लम्प

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECEPT |
|-----------|-------|------|-------|------|-------|-------|-------|--------|
| Act 17-18 | 62.94 | 2.23 | 2.45  | 2.23 | 2.45  | 4.68  | 1.10  | 100254 |
| APP 18-19 | 63.00 | 2.40 | 2.40  |      | 10.00 | 4.80  | 1.00  | 420000 |
| Apr-18    | 63.88 | 2.26 | 1.90  | 9.20 | 17.20 | 4.16  | 0.84  | 34140  |
| May-18    | 63.36 | 2.55 | 2.32  | 9.20 | 15.60 | 4.87  | 0.91  | 25921  |
| Jun-18    | 63.16 | 2.59 | 2.55  | 9.30 | 19.50 | 5.14  | 0.98  | 35878  |
| Jul-18    | 63.45 | 2.40 | 2.27  | 9.80 | 17.80 | 4.67  | 0.95  |        |
| Aug-18    |       |      |       |      |       |       |       |        |
| Sep-18    |       |      |       |      |       |       |       |        |
| Oct-18    |       |      |       |      |       |       |       |        |
| Nov-18    |       |      |       |      |       |       |       |        |
| Dec-18    |       |      |       |      |       |       |       |        |
| Jan-19    |       |      |       |      |       |       |       |        |
| Feb-19    |       |      |       |      |       |       |       |        |
| Mar-19    |       |      |       |      |       |       |       |        |
| CUMMIL    | 63.49 | 2.42 | 2.24  | 9.49 | 17.61 | 4.66  | 0.93  | 95939  |

## गणवत्ता :: राउरकेला इस्पात संयंत्र

फाईन्स

कास्ट

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECEPT  |
|-----------|-------|------|-------|------|-------|-------|-------|---------|
| Act 17-18 | 63.00 | 2.26 | 2.14  | 7.35 | 28.90 | 4.40  | 0.95  | 531521  |
| APP 18-19 | 63.00 | 2.40 | 2.50  | 5.00 | 40.00 | 4.90  | 1.04  | 1200000 |
| Apr-18    | 63.16 | 2.03 | 1.69  | 5.00 | 33.50 | 3.72  | 0.83  | 93661   |
| May-18    | 63.09 | 2.49 | 2.08  | 6.30 | 26.10 | 4.57  | 0.84  | 66016   |
| Jun-18    | 63.00 | 2.30 | 2.33  | 4.00 | 32.00 | 4.63  | 1.01  | 11384   |
| Jul-18    | 62.93 | 2.37 | 2.43  | 7.60 | 34.00 | 4.80  | 1.03  | 10693   |
| Aug-18    |       |      |       |      |       |       |       |         |
| Sep-18    |       |      |       |      |       |       |       |         |
| Oct-18    |       |      |       |      |       |       |       |         |
| Nov-18    |       |      |       |      |       |       |       |         |
| Dec-18    |       |      |       |      |       |       |       |         |
| Jan-19    |       |      |       |      |       |       |       |         |
| Feb-19    |       |      |       |      |       |       |       |         |
| Mar-19    |       |      |       |      |       |       |       |         |
| CUMMIL    | 63.11 | 2.23 | 1.91  | 5.57 | 30.77 | 4.14  | 0.86  | 181754  |

मनोहरपुर फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS   | US    | Al+Si | Al/Si | RECEPT |
|-----------|-------|------|-------|------|-------|-------|-------|--------|
| Act 17-18 | 62.54 | 2.53 | 2.58  | 5.66 | 30.75 | 5.11  | 1.02  | 39141  |
| APP 18-19 | 63.00 | 2.40 | 2.60  | 5.00 | 40.00 | 5.00  | 1.08  | 50000  |
| Apr-18    |       |      |       |      |       |       |       |        |
| May-18    |       |      |       |      |       |       |       |        |
| Jun-18    | 63.00 | 2.70 | 2.60  | 7.50 | 32.50 | 5.30  | 0.96  | 11785  |
| Jul-18    | 62.70 | 2.75 | 2.45  | 8.00 | 32.00 | 5.20  | 0.89  | 7617   |
| Aug-18    |       |      |       |      |       |       |       |        |
| Sep-18    |       |      |       |      |       |       |       |        |
| Oct-18    |       |      |       |      |       |       |       |        |
| Nov-18    |       |      |       |      |       |       |       |        |
| Dec-18    |       |      |       |      |       |       |       |        |
| Jan-19    |       |      |       |      |       |       |       |        |
| Feb-19    |       |      |       |      |       |       |       |        |
| Mar-19    |       |      |       |      |       |       |       |        |
| CUMMIL    | 62.90 | 2.72 | 2.55  | 7.67 | 32.33 | 5.27  | 0.94  | 19402  |

तल्कीह

फाईन्स

|           | Fe    | SiO2 | Al2O3 | OS    | US    | Al+Si | Al/Si | RECEPT |
|-----------|-------|------|-------|-------|-------|-------|-------|--------|
| Act 17-18 |       |      |       | 4.27  | 4.74  |       |       |        |
| APP 18-19 | 62.00 | 3.00 | 3.00  | 10.00 | 40.00 | 6.00  | 1.00  | 100000 |
| Apr-18    |       |      |       |       |       |       |       |        |
| May-18    |       |      |       |       |       |       |       |        |
| Jun-18    |       |      |       |       |       |       |       |        |
| Jul-18    |       |      |       |       |       |       |       |        |
| Aug-18    |       |      |       |       |       |       |       |        |
| Sep-18    |       |      |       |       |       |       |       |        |
| Oct-18    |       |      |       |       |       |       |       |        |
| Nov-18    |       |      |       |       |       |       |       |        |
| Dec-18    |       |      |       |       |       |       |       |        |
| Jan-19    |       |      |       |       |       |       |       |        |
| Feb-19    |       |      |       |       |       |       |       |        |
| Mar-19    |       |      |       |       |       |       |       |        |
| CUMMIL    |       |      |       |       |       |       |       |        |

गणवल्ता :: बर्नपूर इस्पात संयंत्र  
बोलानी लम्प

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------------------|--------------------------------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.64 | 2.81             | 3.01                           | 17.15 | 5.55  | 5.82  | 1.07  | 500180 |
| APP 18-19 | 62.70 | 2.70             | 2.40                           | 5.00  | 10.00 | 5.10  | 0.89  | 650000 |
| Apr-18    | 63.42 | 2.23             | 2.06                           | 20.55 | 0.75  | 4.29  | 0.92  | 36226  |
| May-18    | 62.59 | 1.89             | 3.05                           | 16.16 | 0.61  | 4.94  | 1.61  | 32760  |
| Jun-18    | 63.15 | 2.97             | 2.18                           | 25.79 | 0.76  | 5.15  | 0.73  | 52636  |
| Jul-18    | 63.07 | 3.31             | 1.84                           | 18.78 | 1.41  | 5.15  | 0.56  | 31298  |
| Aug-18    |       |                  |                                |       |       |       |       |        |
| Sep-18    |       |                  |                                |       |       |       |       |        |
| Oct-18    |       |                  |                                |       |       |       |       |        |
| Nov-18    |       |                  |                                |       |       |       |       |        |
| Dec-18    |       |                  |                                |       |       |       |       |        |
| Jan-19    |       |                  |                                |       |       |       |       |        |
| Feb-19    |       |                  |                                |       |       |       |       |        |
| Mar-19    |       |                  |                                |       |       |       |       |        |
| CUMML     | 63.08 | 2.80             | 2.19                           | 21.46 | 0.93  | 4.99  | 0.78  | 152920 |

गुआ लम्प

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS    | US    | Al+Si | Al/Si | RECPT  |
|-----------|-------|------------------|--------------------------------|-------|-------|-------|-------|--------|
| Act 17-18 | 62.82 | 2.93             | 2.43                           | 22.20 | 2.50  | 5.36  | 0.83  | 165071 |
| APP 18-19 | 62.50 | 3.00             | 2.20                           | 5.00  | 10.00 | 5.20  | 0.73  | 350000 |
| Apr-18    | 63.41 | 2.05             | 1.76                           | 23.77 | 0.92  | 3.81  | 0.86  | 66862  |
| May-18    | 63.08 | 3.21             | 2.01                           | 12.80 | 0.69  | 5.22  | 0.63  | 53760  |
| Jun-18    | 63.60 | 2.16             | 2.11                           | 14.47 | 1.39  | 4.27  | 0.98  | 78374  |
| Jul-18    | 62.32 | 4.96             | 1.56                           | 14.36 | 5.84  | 6.52  | 0.31  | 57924  |
| Aug-18    |       |                  |                                |       |       |       |       |        |
| Sep-18    |       |                  |                                |       |       |       |       |        |
| Oct-18    |       |                  |                                |       |       |       |       |        |
| Nov-18    |       |                  |                                |       |       |       |       |        |
| Dec-18    |       |                  |                                |       |       |       |       |        |
| Jan-19    |       |                  |                                |       |       |       |       |        |
| Feb-19    |       |                  |                                |       |       |       |       |        |
| Mar-19    |       |                  |                                |       |       |       |       |        |
| CUMML     | 63.33 | 2.65             | 1.98                           | 15.62 | 1.59  | 4.63  | 0.75  | 256920 |

मनोहरपूर लम्प

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS    | US    | Al+Si | Al/Si | RECPT |
|-----------|-------|------------------|--------------------------------|-------|-------|-------|-------|-------|
| Act 16-17 | 62.41 | 2.41             | 3.68                           | 23.83 | 4.96  | 6.09  | 1.53  | 43027 |
| APP 18-19 | 63.00 | 2.00             | 2.20                           |       | 10.00 | 4.20  | 1.10  |       |
| Apr-17    | 63.84 | 2.70             | 2.04                           | 21.63 | 4.03  | 4.74  | 0.76  | 4012  |
| May-17    |       |                  |                                |       |       |       |       |       |
| Jun-17    |       |                  |                                |       |       |       |       |       |
| Jul-17    |       |                  |                                |       |       |       |       |       |
| Aug-17    |       |                  |                                |       |       |       |       |       |
| Sep-17    |       |                  |                                |       |       |       |       |       |
| Oct-17    |       |                  |                                |       |       |       |       |       |
| Nov-17    |       |                  |                                |       |       |       |       |       |
| Dec-17    |       |                  |                                |       |       |       |       |       |
| Jan-18    |       |                  |                                |       |       |       |       |       |
| Feb-18    |       |                  |                                |       |       |       |       |       |
| Mar-18    |       |                  |                                |       |       |       |       |       |
| CUMML     | 63.04 | 2.70             | 2.04                           | 21.63 | 4.03  | 4.74  | 0.76  | 4012  |

गणवल्ता :: बर्नपूर इस्पात संयंत्र  
बोलानी फाईन्स

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|------|-------|-------|-------|---------|
| Act 17-18 | 62.37 | 2.93             | 3.14                           | 9.05 | 42.61 | 6.07  | 1.07  | 1175040 |
| APP 18-19 | 62.50 | 2.90             | 2.80                           | 5.00 | 35.00 | 5.70  | 0.97  | 850000  |
| Apr-18    | 62.21 | 3.14             | 3.14                           | 7.40 | 45.93 | 6.28  | 1.00  | 123578  |
| May-18    | 61.94 | 3.69             | 2.90                           | 6.63 | 42.47 | 6.59  | 0.79  | 104272  |
| Jun-18    | 61.44 | 3.44             | 3.95                           | 8.96 | 41.70 | 7.39  | 1.15  | 107984  |
| Jul-18    | 61.42 | 4.23             | 3.19                           | 9.16 | 36.21 | 7.42  | 0.75  | 92256   |
| Aug-18    |       |                  |                                |      |       |       |       |         |
| Sep-18    |       |                  |                                |      |       |       |       |         |
| Oct-18    |       |                  |                                |      |       |       |       |         |
| Nov-18    |       |                  |                                |      |       |       |       |         |
| Dec-18    |       |                  |                                |      |       |       |       |         |
| Jan-19    |       |                  |                                |      |       |       |       |         |
| Feb-19    |       |                  |                                |      |       |       |       |         |
| Mar-19    |       |                  |                                |      |       |       |       |         |
| CUMML     | 61.72 | 3.58             | 3.39                           | 8.15 | 41.73 | 6.97  | 0.95  | 428090  |

गुआ फाईन्स

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|------|-------|-------|-------|---------|
| Act 17-18 | 62.95 | 2.83             | 2.75                           | 3.39 | 50.66 | 5.58  | 0.97  | 1153357 |
| APP 18-19 | 62.50 | 2.90             | 2.80                           | 5.00 | 45.00 | 5.70  | 0.97  | 1800000 |
| Apr-18    | 62.65 | 2.92             | 2.97                           | 6.30 | 50.82 | 5.89  | 1.02  | 117346  |
| May-18    | 62.23 | 3.68             | 2.67                           | 4.05 | 50.22 | 6.35  | 0.73  | 85420   |
| Jun-18    | 63.19 | 3.20             | 2.03                           | 3.50 | 55.50 | 5.23  | 0.63  | 124608  |
| Jul-18    | 63.32 | 3.56             | 2.07                           | 5.44 | 45.61 | 5.63  | 0.58  | 126672  |
| Aug-18    |       |                  |                                |      |       |       |       |         |
| Sep-18    |       |                  |                                |      |       |       |       |         |
| Oct-18    |       |                  |                                |      |       |       |       |         |
| Nov-18    |       |                  |                                |      |       |       |       |         |
| Dec-18    |       |                  |                                |      |       |       |       |         |
| Jan-19    |       |                  |                                |      |       |       |       |         |
| Feb-19    |       |                  |                                |      |       |       |       |         |
| Mar-19    |       |                  |                                |      |       |       |       |         |
| CUMML     | 62.95 | 3.30             | 2.33                           | 4.57 | 51.51 | 5.63  | 0.71  | 454046  |

मेघाहातुबुरू फाईन्स

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS    | US    | Al+Si | Al/Si | RECPT |
|-----------|-------|------------------|--------------------------------|-------|-------|-------|-------|-------|
| Act 16-17 | 61.13 | 1.87             | 4.21                           | 19.60 |       | 6.08  | 2.25  | 3271  |
| APP 18-19 | 62.50 | 3.00             | 2.50                           | 5.00  | 10.00 | 5.50  | 0.83  |       |
| Apr-17    | 61.51 | 4.06             | 3.29                           | 7.42  | 42.42 | 7.35  | 0.81  | 10476 |
| May-17    | 61.67 | 4.86             | 3.02                           | 4.12  | 56.19 | 7.88  | 0.62  | 7608  |
| Jun-17    | 59.47 | 4.41             | 4.85                           | 5.39  | 36.11 | 9.26  | 1.10  | 6600  |
| Jul-17    |       |                  |                                |       |       |       |       |       |
| Aug-17    |       |                  |                                |       |       |       |       |       |
| Sep-17    |       |                  |                                |       |       |       |       |       |
| Oct-17    |       |                  |                                |       |       |       |       |       |
| Nov-17    |       |                  |                                |       |       |       |       |       |
| Dec-17    |       |                  |                                |       |       |       |       |       |
| Jan-18    |       |                  |                                |       |       |       |       |       |
| Feb-18    |       |                  |                                |       |       |       |       |       |
| Mar-18    |       |                  |                                |       |       |       |       |       |
| CUMML     | 60.86 | 4.31             | 3.76                           | 6.19  | 42.61 | 8.07  | 0.87  | 24684 |

गुणवत्ता :: बोकारो

लम्प

| BLEND     | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS    | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|-------|-------|-------|-------|---------|
| Act 17-18 | 63.19 | 2.73             | 1.86                           | 13.54 | 19.96 | 4.58  | 0.68  | 2226628 |
| APP 18-19 | 62.67 | 2.71             | 2.44                           | 2.78  | 10.00 | 5.15  | 0.90  | 2700000 |
| Apr-18    | 63.09 | 2.75             | 2.20                           | 11.93 | 16.11 | 4.95  | 0.80  | 178066  |
| May-18    | 63.22 | 2.69             | 2.12                           | 10.39 | 16.22 | 4.81  | 0.79  | 185906  |
| Jun-18    | 63.01 | 2.79             | 2.30                           | 12.32 | 18.36 | 5.09  | 0.82  | 166428  |
| Jul-18    | 62.73 | 3.44             | 1.98                           | 12.92 | 20.70 | 5.42  | 0.58  | 201770  |
| Aug-18    |       |                  |                                |       |       |       |       |         |
| Sep-18    |       |                  |                                |       |       |       |       |         |
| Oct-18    |       |                  |                                |       |       |       |       |         |
| Nov-18    |       |                  |                                |       |       |       |       |         |
| Dec-18    |       |                  |                                |       |       |       |       |         |
| Jan-19    |       |                  |                                |       |       |       |       |         |
| Feb-19    |       |                  |                                |       |       |       |       |         |
| Mar-19    |       |                  |                                |       |       |       |       |         |
| CUMML     | 62.99 | 2.91             | 2.18                           | 12.13 | 17.73 | 5.10  | 0.75  | 732170  |

गुणवत्ता:: दूगीपूर

लम्प

| BLEND     | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS    | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|-------|-------|-------|-------|---------|
| Act 17-18 | 62.74 | 2.51             | 1.82                           | 14.21 | 15.62 | 4.33  | 0.72  | 1358966 |
| APP 18-19 | 62.64 | 2.79             | 2.34                           | 5.00  | 10.00 | 5.13  | 0.84  | 1750000 |
| Apr-18    | 63.14 | 2.10             | 1.85                           | 25.66 | 13.33 | 3.95  | 0.88  | 110875  |
| May-18    | 62.85 | 2.37             | 1.62                           | 17.95 | 16.08 | 3.99  | 0.68  | 136826  |
| Jun-18    | 62.56 | 2.37             | 1.97                           | 18.69 | 16.94 | 4.34  | 0.83  | 140140  |
| Jul-18    | 62.56 | 2.75             | 1.71                           | 17.04 | 16.16 | 4.46  | 0.62  | 107770  |
| Aug-18    |       |                  |                                |       |       |       |       |         |
| Sep-18    |       |                  |                                |       |       |       |       |         |
| Oct-18    |       |                  |                                |       |       |       |       |         |
| Nov-18    |       |                  |                                |       |       |       |       |         |
| Dec-18    |       |                  |                                |       |       |       |       |         |
| Jan-19    |       |                  |                                |       |       |       |       |         |
| Feb-19    |       |                  |                                |       |       |       |       |         |
| Mar-19    |       |                  |                                |       |       |       |       |         |
| CUMML     | 62.77 | 2.39             | 1.79                           | 19.69 | 15.73 | 4.18  | 0.75  | 495611  |

गुणवत्ता :: बोकारो

फाईन्स

| BLEND     | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|------|-------|-------|-------|---------|
| Act 17-18 | 62.33 | 3.35             | 2.41                           | 6.13 | 33.98 | 5.76  | 0.72  | 3910390 |
| APP 18-19 | 62.38 | 3.15             | 2.72                           | 5.45 | 31.74 | 5.87  | 0.86  | 4200000 |
| Apr-18    | 62.10 | 3.38             | 2.79                           | 6.73 | 31.85 | 6.17  | 0.82  | 270674  |
| May-18    | 61.94 | 3.57             | 2.91                           | 6.05 | 34.23 | 6.48  | 0.82  | 332918  |
| Jun-18    | 62.21 | 3.51             | 2.70                           | 5.70 | 33.43 | 6.21  | 0.77  | 424539  |
| Jul-18    | 62.23 | 3.57             | 2.60                           | 6.10 | 32.86 | 6.17  | 0.73  | 332728  |
| Aug-18    |       |                  |                                |      |       |       |       |         |
| Sep-18    |       |                  |                                |      |       |       |       |         |
| Oct-18    |       |                  |                                |      |       |       |       |         |
| Nov-18    |       |                  |                                |      |       |       |       |         |
| Dec-18    |       |                  |                                |      |       |       |       |         |
| Jan-19    |       |                  |                                |      |       |       |       |         |
| Feb-19    |       |                  |                                |      |       |       |       |         |
| Mar-19    |       |                  |                                |      |       |       |       |         |
| CUMML     | 62.11 | 3.54             | 2.76                           | 6.12 | 33.18 | 6.30  | 0.78  | 1360859 |

गुणवत्ता:: दूगीपूर

फाईन्स

| BLEND     | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|------|-------|-------|-------|---------|
| Act 17-18 | 63.34 | 2.62             | 1.97                           | 4.27 | 46.20 | 4.59  | 0.75  | 2405030 |
| APP 18-19 | 62.50 | 2.90             | 2.80                           | 5.00 | 33.65 | 5.70  | 0.97  | 2520000 |
| Apr-18    | 62.99 | 2.55             | 2.33                           | 4.62 | 44.88 | 4.88  | 0.91  | 247845  |
| May-18    | 62.56 | 3.06             | 2.44                           | 3.34 | 45.68 | 5.49  | 0.80  | 242803  |
| Jun-18    | 62.46 | 2.89             | 2.57                           | 3.80 | 45.47 | 5.46  | 0.89  | 203905  |
| Jul-18    | 62.48 | 3.47             | 2.45                           | 3.42 | 44.30 | 5.92  | 0.71  | 221715  |
| Aug-18    |       |                  |                                |      |       |       |       |         |
| Sep-18    |       |                  |                                |      |       |       |       |         |
| Oct-18    |       |                  |                                |      |       |       |       |         |
| Nov-18    |       |                  |                                |      |       |       |       |         |
| Dec-18    |       |                  |                                |      |       |       |       |         |
| Jan-19    |       |                  |                                |      |       |       |       |         |
| Feb-19    |       |                  |                                |      |       |       |       |         |
| Mar-19    |       |                  |                                |      |       |       |       |         |
| CUMML     | 62.63 | 2.98             | 2.44                           | 3.81 | 45.08 | 5.42  | 0.82  | 916268  |

गुणवत्ता :: राउरकेला

लम्प

BLEND

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS    | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|-------|-------|-------|-------|---------|
| Act 17-18 | 62.85 | 2.65             | 2.40                           | 12.86 | 18.96 | 5.04  | 0.90  | 2119274 |
| APP 18-19 | 62.78 | 2.51             | 2.44                           | 1.73  | 10.00 | 4.95  | 0.97  | 2400000 |
| Apr-18    | 63.13 | 2.76             | 2.42                           | 13.59 | 15.87 | 5.18  | 0.88  | 175284  |
| May-18    | 63.15 | 2.61             | 2.57                           | 10.04 | 17.21 | 5.19  | 0.99  | 167588  |
| Jun-18    | 63.09 | 2.67             | 2.56                           | 11.44 | 18.20 | 5.22  | 0.96  | 171284  |
| Jul-18    | 62.67 | 3.01             | 2.86                           | 10.65 | 22.81 | 5.86  | 0.95  | 193982  |
| Aug-18    |       |                  |                                |       |       |       |       |         |
| Sep-18    |       |                  |                                |       |       |       |       |         |
| Oct-18    |       |                  |                                |       |       |       |       |         |
| Nov-18    |       |                  |                                |       |       |       |       |         |
| Dec-18    |       |                  |                                |       |       |       |       |         |
| Jan-19    |       |                  |                                |       |       |       |       |         |
| Feb-19    |       |                  |                                |       |       |       |       |         |
| Mar-19    |       |                  |                                |       |       |       |       |         |
| CUMML     | 63.07 | 2.73             | 2.55                           | 11.42 | 18.02 | 5.28  | 0.93  | 708138  |

गुणवत्ता :: बर्नपुर इस्पात संयंत्र

लम्प

BLEND

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS    | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|-------|-------|-------|-------|---------|
| Act 17-18 | 62.64 | 2.79             | 2.97                           | 18.42 | 4.74  | 5.76  | 1.07  | 770640  |
| APP 18-19 | 62.67 | 2.75             | 2.35                           | 3.85  | 10.00 | 5.10  | 0.85  | 1300000 |
| Apr-18    | 63.43 | 2.14             | 1.87                           | 22.60 | 0.98  | 4.01  | 0.88  | 107100  |
| May-18    | 62.89 | 2.71             | 2.40                           | 14.07 | 0.66  | 5.11  | 0.89  | 86520   |
| Jun-18    | 63.42 | 2.49             | 2.14                           | 19.02 | 1.14  | 4.62  | 0.86  | 131010  |
| Jul-18    | 62.58 | 4.38             | 1.66                           | 15.91 | 4.29  | 6.04  | 0.38  | 89222   |
| Aug-18    |       |                  |                                |       |       |       |       |         |
| Sep-18    |       |                  |                                |       |       |       |       |         |
| Oct-18    |       |                  |                                |       |       |       |       |         |
| Nov-18    |       |                  |                                |       |       |       |       |         |
| Dec-18    |       |                  |                                |       |       |       |       |         |
| Jan-19    |       |                  |                                |       |       |       |       |         |
| Feb-19    |       |                  |                                |       |       |       |       |         |
| Mar-19    |       |                  |                                |       |       |       |       |         |
| CUMML     | 63.23 | 2.71             | 2.06                           | 17.84 | 1.37  | 4.76  | 0.76  | 413852  |

गुणवत्ता :: राउरकेला

फाईन्स

BLEND

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|------|-------|-------|-------|---------|
| Act 17-18 | 62.30 | 2.95             | 2.47                           |      |       | 5.42  | 0.84  | 3512612 |
| APP 18-19 | 62.47 | 3.00             | 2.68                           | 5.12 | 33.33 | 5.68  | 0.89  | 4050000 |
| Apr-18    | 62.57 | 2.67             | 2.41                           |      |       | 5.08  | 0.90  | 300665  |
| May-18    | 62.42 | 2.81             | 2.72                           |      |       | 5.53  | 0.97  | 304916  |
| Jun-18    | 62.33 | 2.93             | 2.74                           |      |       | 5.67  | 0.94  | 304241  |
| Jul-18    | 62.07 | 3.12             | 2.89                           |      |       | 6.02  | 0.93  | 279174  |
| Aug-18    |       |                  |                                |      |       |       |       |         |
| Sep-18    |       |                  |                                |      |       |       |       |         |
| Oct-18    |       |                  |                                |      |       |       |       |         |
| Nov-18    |       |                  |                                |      |       |       |       |         |
| Dec-18    |       |                  |                                |      |       |       |       |         |
| Jan-19    |       |                  |                                |      |       |       |       |         |
| Feb-19    |       |                  |                                |      |       |       |       |         |
| Mar-19    |       |                  |                                |      |       |       |       |         |
| CUMML     | 62.37 | 2.85             | 2.66                           |      |       | 5.51  | 0.93  | 1188996 |

गुणवत्ता :: बर्नपुर इस्पात संयंत्र

फाईन्स

BLEND

|           | Fe    | SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | OS   | US    | Al+Si | Al/Si | RECPT   |
|-----------|-------|------------------|--------------------------------|------|-------|-------|-------|---------|
| Act 17-18 | 62.59 | 3.13             | 3.39                           | 6.41 | 45.97 | 6.52  | 1.08  | 2530484 |
| APP 18-19 | 62.42 | 3.06             | 2.77                           | 5.00 | 35.71 | 5.83  | 0.91  | 3150000 |
| Apr-18    | 62.39 | 3.05             | 3.07                           | 7.04 | 47.91 | 6.13  | 1.01  | 257880  |
| May-18    | 62.06 | 3.73             | 2.81                           | 5.42 | 46.35 | 6.54  | 0.75  | 197300  |
| Jun-18    | 62.33 | 3.35             | 2.94                           | 5.92 | 49.14 | 6.29  | 0.88  | 246940  |
| Jul-18    | 62.52 | 3.84             | 2.54                           | 7.01 | 41.65 | 6.38  | 0.66  | 218928  |
| Aug-18    |       |                  |                                |      |       |       |       |         |
| Sep-18    |       |                  |                                |      |       |       |       |         |
| Oct-18    |       |                  |                                |      |       |       |       |         |
| Nov-18    |       |                  |                                |      |       |       |       |         |
| Dec-18    |       |                  |                                |      |       |       |       |         |
| Jan-19    |       |                  |                                |      |       |       |       |         |
| Feb-19    |       |                  |                                |      |       |       |       |         |
| Mar-19    |       |                  |                                |      |       |       |       |         |
| CUMML     | 62.33 | 3.45             | 2.86                           | 6.32 | 46.74 | 6.32  | 0.83  | 921048  |

भवनाथपुर  
गुणवत्ता :: बोकारो इस्पात संयंत्र  
BF LST

|           | CaO   | MgO  | SiO <sub>2</sub> | OS    | US    |
|-----------|-------|------|------------------|-------|-------|
| Act 17-18 |       |      |                  |       |       |
| APP 18-19 | 43.00 | 5.00 | 6.50             | 15.00 | 10.00 |
| Apr-18    |       |      |                  |       |       |
| May-18    |       |      |                  |       |       |
| Jun-18    |       |      |                  |       |       |
| Jul-18    |       |      |                  |       |       |
| Aug-18    |       |      |                  |       |       |
| Sep-18    |       |      |                  |       |       |
| Oct-18    |       |      |                  |       |       |
| Nov-18    |       |      |                  |       |       |
| Dec-18    |       |      |                  |       |       |
| Jan-19    |       |      |                  |       |       |
| Feb-19    |       |      |                  |       |       |
| Mar-19    |       |      |                  |       |       |
| CUMML     |       |      |                  |       |       |

गुणवत्ता :: बोकारो  
तलसीदामर  
BF DOLOMITE

|           | CaO   | MgO   | SiO <sub>2</sub> | OS   | US    |
|-----------|-------|-------|------------------|------|-------|
| Act 17-18 | 29.75 | 18.89 | 5.47             | 5.92 | 9.88  |
| APP 18-19 | 30.00 | 18.00 | 5.00             | 5.00 | 10.00 |
| Apr-18    | 30.21 | 19.92 | 4.98             | 3.75 | 9.00  |
| May-18    | 30.72 | 21.94 | 4.91             | 4.10 | 8.80  |
| Jun-18    | 29.98 | 20.21 | 5.00             | 4.18 | 8.72  |
| Jul-18    | 31.13 | 20.53 | 4.95             | 4.60 | 8.58  |
| Aug-18    |       |       |                  |      |       |
| Sep-18    |       |       |                  |      |       |
| Oct-18    |       |       |                  |      |       |
| Nov-18    |       |       |                  |      |       |
| Dec-18    |       |       |                  |      |       |
| Jan-19    |       |       |                  |      |       |
| Feb-19    |       |       |                  |      |       |
| Mar-19    |       |       |                  |      |       |
| CUMML     | 30.27 | 20.29 | 4.99             | 4.29 | 8.68  |

कुटेश्वर  
गुणवत्ता :: बोकारो इस्पात संयंत्र  
BF LST

|           | CaO   | MgO  | SiO <sub>2</sub> | OS   | US    |
|-----------|-------|------|------------------|------|-------|
| Act 17-18 | 45.56 | 2.57 | 3.33             | 4    | 26.14 |
| APP 18-19 | 50.00 | 2.25 | 3.50             | 5.00 | 5.00  |
| Apr-18    | 42.91 | 2.30 | 3.68             | 2.76 | 22.73 |
| May-18    | 44.76 | 1.87 | 3.58             | 6.33 | 25.83 |
| Jun-18    | 44.49 | 2.25 | 3.66             | 4.48 | 25.17 |
| Jul-18    | 45.60 | 2.29 | 3.74             | 4.66 | 25.57 |
| Aug-18    |       |      |                  |      |       |
| Sep-18    |       |      |                  |      |       |
| Oct-18    |       |      |                  |      |       |
| Nov-18    |       |      |                  |      |       |
| Dec-18    |       |      |                  |      |       |
| Jan-19    |       |      |                  |      |       |
| Feb-19    |       |      |                  |      |       |
| Mar-19    |       |      |                  |      |       |
| CUMML     | 44.77 | 2.26 | 3.68             | 4.53 | 25.27 |

गुणवत्ता :: भिलाई  
कुटेश्वर  
BF LST

|           | CaO   | MgO  | SiO <sub>2</sub> | OS   | US    |
|-----------|-------|------|------------------|------|-------|
| Act 17-18 | 50.40 | 1.89 | 3.64             | 7.16 | 18.33 |
| APP 18-19 | 50.00 | 2.25 | 3.50             | 5.00 | 5.00  |
| Apr-18    | 50.02 | 2.09 | 3.95             | 6.95 | 19.72 |
| May-18    | 49.99 | 2.26 | 3.92             | 8.40 | 16.81 |
| Jun-18    | 49.79 | 2.30 | 4.02             | 8.05 | 21.79 |
| Jul-18    | 49.35 | 2.65 | 3.87             | 9.43 | 18.85 |
| Aug-18    |       |      |                  |      |       |
| Sep-18    |       |      |                  |      |       |
| Oct-18    |       |      |                  |      |       |
| Nov-18    |       |      |                  |      |       |
| Dec-18    |       |      |                  |      |       |
| Jan-19    |       |      |                  |      |       |
| Feb-19    |       |      |                  |      |       |
| Mar-19    |       |      |                  |      |       |
| CUMML     | 49.69 | 2.39 | 3.96             | 8.39 | 17.07 |

# PERFORMANCE REPORT OF HEMM

KIRIBURU MINES



SAIL-RMD

| PROJ. NO.                             | CUMM. UTILIS UPTO July'18 | MAKE / TYPE       | CAP      | DATE OF COMMISSION | JULY 2018 |          |           |           |           |        |        |         |      |           | 2018-19 |           |          |           |           |           |       |       |         |       |           |        |
|---------------------------------------|---------------------------|-------------------|----------|--------------------|-----------|----------|-----------|-----------|-----------|--------|--------|---------|------|-----------|---------|-----------|----------|-----------|-----------|-----------|-------|-------|---------|-------|-----------|--------|
|                                       |                           |                   |          |                    | SCH. HRS. | B/D HRS. | IDLE HRS. | AVL. HRS. | UTL. HRS. | AV%    | UT%    | NET UT% | TRIP | FEED RATE | HSD/HR  | SCH. HRS. | B/D HRS. | IDLE HRS. | AVL. HRS. | UTL. HRS. | AV%   | UT%   | NET UT% | TRIP  | FEED RATE | HSD/HR |
| EXCAVATORS                            |                           |                   |          |                    |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |        |
| BE-16                                 | 33713                     | BEML, BE-1000     | 4.5CU.M  | 24-Jun-05          | 620       | 620      |           |           |           |        |        |         |      |           |         | 2440      | 2440     |           |           |           |       |       |         |       |           |        |
| TH-17                                 | 23146                     | TELCON, EX-1200   | 5.9 CU.M | 16-Apr-07          | 620       | 620      |           |           |           |        |        |         |      |           |         | 2440      | 2440     |           |           |           |       |       |         |       |           |        |
| BE-18                                 | 22660                     | BEML, BE-1000     | 4.5CU.M  | 31-Jul-08          | 620       | 620      |           |           |           |        |        |         |      |           |         | 2440      | 2440     |           |           |           |       |       |         |       |           |        |
|                                       |                           |                   |          | SUB TOTAL          | 1860      | 1860     |           |           |           |        |        |         |      |           |         | 7320      | 7320     |           |           |           |       |       |         |       |           |        |
| EX-19                                 | 20939                     | KOMATSU PC2000-8  | 9.5 CU.M | 14-Nov-11          |           |          |           |           |           |        |        |         |      |           |         | 620       |          |           | 620       | 620       | 100.0 | 100.0 | 100.0   |       |           |        |
| EX-20                                 | 23987                     | KOMATSU PC2000-8  | 9.5 CU.M | 17-Feb-12          | 620       | 24       | 326       | 596       | 270       | 96.13  | 45.30  | 43.55   | 1203 | 4.45      | 53.33   | 2440      | 87       | 1432      | 2363      | 921       | 96.4  | 39.1  | 37.7    | 5080  | 5.52      | 58.79  |
| EX-22                                 | 11845                     | KOMATSU PC2000-8  | 9.5 CU.M | 11-Aug-15          | 620       | 4        | 291       | 616       | 325       | 99.35  | 52.76  | 52.42   | 1453 | 4.47      | 59.38   | 2440      | 66       | 1142      | 2374      | 1232      | 97.3  | 51.9  | 50.5    | 5867  | 4.76      | 66.66  |
| EX-23                                 | 12393                     | KOMATSU PC2000-8  | 9.5 CU.M | 28-Sep-15          | 620       |          | 328       | 620       | 292       | 100.00 | 47.10  | 47.10   | 1125 | 3.85      | 58.39   | 2440      | 38       | 962       | 2402      | 1440      | 98.4  | 60.0  | 59.0    | 7143  | 4.96      | 53.09  |
| *EX-19 shifted to MIOM during July 16 |                           |                   |          | SUB TOTAL          | 1860      | 28       | 945       | 1832      | 887       | 98.49  | 48.42  | 47.69   | 3780 | 4.26      | 57.22   | 7940      | 191      | 3536      | 7749      | 4213      | 97.6  | 54.4  | 53.1    | 18089 | 4.29      | 50.49  |
|                                       |                           |                   |          | TOTAL              | 3720      | 1888     | 945       | 1832      | 887       | 49.25  | 48.42  | 23.84   | 3780 | 4.26      | 57.22   | 15260     | 7511     | 3536      | 7749      | 4213      | 50.8  | 54.4  | 27.6    | 18089 | 4.29      | 50.49  |
| DUMPERS                               |                           |                   |          |                    |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |        |
| DUMPER, 85 TE DUM-87                  | 14565                     | BEML, BH-85       | 85Te     | 30-Mar-08          | 620       | 620      |           |           |           |        |        |         |      |           |         | 2440      | 1820     |           | 620       | 620       | 25.4  | 100.0 | 25.4    |       |           |        |
|                                       |                           |                   |          | TOTAL              | 620       | 620      |           |           |           |        |        |         |      |           |         | 2440      | 1820     |           | 620       | 620       | 25.4  | 100.0 | 25.4    |       |           |        |
| DUM 88                                | 30127                     | KOMATSU HD785-7   | 100 Te   | 23-Jul-10          | 620       | 166      | 147       | 454       | 307       | 73.23  | 67.62  | 49.52   | 864  | 2.82      | 47.88   | 2440      | 1366     | 147       | 1074      | 927       | 44.0  | 86.3  | 38.0    | 864   | 0.93      | 23.79  |
| DUM 89                                | 33447                     | KOMATSU HD785-7   | 100Te    | 23-Jul-10          | 620       | 194      | 166       | 426       | 260       | 68.71  | 61.03  | 41.94   | 823  | 3.16      | 52.31   | 2440      | 450      | 696       | 1990      | 1294      | 81.6  | 65.0  | 53.0    | 4588  | 3.55      | 44.05  |
| DUM-91                                | 19369                     | CAT 777D          | 100T     | 2-Feb-12           | 620       | 24       | 372       | 596       | 224       | 96.13  | 37.58  | 36.13   | 673  | 3.00      | 44.42   | 2440      | 120      | 1438      | 2320      | 882       | 95.1  | 38.0  | 36.1    | 3098  | 3.51      | 46.47  |
| DUM-92                                | 22029                     | CAT 777D          | 100T     | 2-Feb-12           | 620       | 110      | 418       | 510       | 92        | 82.26  | 18.04  | 14.84   | 335  | 3.64      | 53.26   | 2440      | 537      | 1166      | 1903      | 737       | 78.0  | 38.7  | 30.2    | 2550  | 3.46      | 40.09  |
| DUM-93                                | 7026                      | BEML BH-100       | 100T     | 2-May-15           | 620       | 293      | 234       | 327       | 93        | 52.74  | 28.44  | 15.00   | 275  | 2.96      | 48.92   | 2440      | 931      | 1053      | 1509      | 456       | 61.8  | 30.2  | 18.7    | 1699  | 3.73      | 47.92  |
| DUM-94                                | 5234                      | BEML BH-100       | 100T     | 2-May-15           | 620       | 252      | 208       | 368       | 160       | 59.35  | 43.48  | 25.81   | 377  | 2.36      | 40.00   | 2440      | 356      | 1263      | 2084      | 821       | 85.4  | 39.4  | 33.6    | 2596  | 3.16      | 50.54  |
| DUM-95                                | 4475                      | BEML BH-100S      | 100T     | May 2016           | 620       | 128      | 347       | 492       | 145       | 79.35  | 29.47  | 23.39   | 433  | 2.99      | 48.28   | 2440      | 224      | 1701      | 2216      | 515       | 90.8  | 23.2  | 21.1    | 2528  | 4.91      | 53.03  |
|                                       |                           |                   |          | TOTAL              | 4340      | 1167     | 1892      | 3173      | 1281      | 73.11  | 40.37  | 29.52   | 3780 | 2.95      | 47.70   | 17080     | 3984     | 7464      | 13096     | 5632      | 76.7  | 43.0  | 33.0    | 17923 | 3.18      | 42.66  |
| DRILL                                 |                           |                   |          |                    |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |        |
| DM-17                                 | 22177                     | IR-ROTACOL-IDM-30 | 160mm    | 24-Mar-05          | 496       | 27       | 369       | 469       | 100       | 94.56  | 21.32  | 20.16   |      |           | 27.00   | 1952      | 1049     | 655       | 903       | 248       | 46.3  | 27.5  | 12.7    | 60    | 0.24      | 44.15  |
| DM-18                                 | 24996                     | AC-ROTACOL-IDM-30 | 160mm    | 19-May-08          | 496       | 126      | 219       | 370       | 151       | 74.60  | 40.81  | 30.44   |      |           | 23.84   | 1952      | 342      | 879       | 1610      | 731       | 82.5  | 45.4  | 37.4    | 4313  | 5.90      | 22.57  |
| DM-19                                 | 19264                     | AC-ROTACOL-IDM-30 | 160mm    | 14-Oct-09          | 496       |          |           | 496       | 496       | 100.00 | 100.00 | 100.00  |      |           |         | 1952      | 1456     |           | 496       | 496       | 25.4  | 100.0 | 25.4    |       |           |        |
| DM-20                                 | 10559                     | AC-ROTACOL-IDM-30 | 160mm    | Oct '14            | 496       | 28       | 187       | 468       | 281       | 94.35  | 60.04  | 56.65   |      |           | 19.57   | 1952      | 112      | 786       | 1840      | 1054      | 94.3  | 57.3  | 54.0    | 2655  | 2.52      | 21.82  |
|                                       |                           |                   |          | TOTAL              | 1984      | 181      | 775       | 1803      | 1028      | 90.88  | 57.02  | 51.81   |      |           | 11.48   | 7808      | 2959     | 2320      | 4849      | 2529      | 62.1  | 52.2  | 32.4    | 7028  | 2.78      | 19.95  |
| DOZER                                 |                           |                   |          |                    |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |        |
| DOZ-27                                | 31636                     | BEML, D-355       | 410HP    | 15-May-01          | 496       | 496      |           |           |           |        |        |         |      |           |         | 1952      | 1632     | 218       | 320       | 102       | 16.4  | 31.9  | 5.2     |       |           |        |
| DOZ-28                                | 24291                     | BEML, D-355       | 410HP    | 14-May-04          | 496       | 420      | 58        | 76        | 18        | 15.32  | 23.68  | 3.63    |      |           | 25.00   | 1952      | 1164     | 577       | 788       | 211       | 40.4  | 26.8  | 10.8    |       |           | 36.64  |
| DOZ-29                                | 18367                     | BEML, D-355       | 410HP    | 11-Jun-04          | 496       | 496      |           |           |           |        |        |         |      |           |         | 1952      | 1952     |           |           |           |       |       |         |       |           |        |
| DOZ-30                                | 19030                     | BEML, D-355       | 410HP    | 8-Jul-07           | 496       | 4        | 450       | 492       | 42        | 99.19  | 8.54   | 8.47    |      |           | 33.33   | 1952      | 194      | 1450      | 1758      | 308       | 90.1  | 17.5  | 15.8    |       |           | 45.58  |
| DOZ-31                                | 17033                     | BEML, D-355       | 410 HP   | 19-Feb-09          | 496       | 22       | 350       | 474       | 124       | 95.56  | 26.16  | 25.00   |      |           | 12.50   | 1952      | 897      | 757       | 1055      | 298       | 54.0  | 28.2  | 15.3    |       |           | 32.08  |
| DOZ-32                                | 4764                      | BEML, D-355       | 410 HP   | 17-Apr-15          | 496       | 422      | 47        | 74        | 27        | 14.92  | 36.49  | 5.44    |      |           | 150.00  | 1952      | 1338     | 378       | 614       | 236       | 31.5  | 38.4  | 12.1    |       |           | 51.19  |
| DOZ-33                                | 2475                      | BEML, D-356       | 410HP    | 22-Sep-17          | 496       | 8        | 180       | 488       | 308       | 98.39  | 63.11  | 62.10   |      |           | 36.36   | 1952      | 29       | 694       | 1923      | 1229      | 98.5  | 63.9  | 63.0    |       |           | 32.42  |
|                                       |                           |                   |          | TOTAL              | 2976      | 1860     | 905       | 1116      | 211       | 37.50  | 18.91  | 7.09    |      |           | 35.31   | 11712     | 7206     | 3380      | 4506      | 1126      | 38.5  | 25.0  | 9.6     |       |           | 38.55  |
| PAY LOADER                            |                           |                   |          |                    |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |        |
| FEL-4                                 | 8537                      | KOMATSU WA-470-3  | 2.9 CU.M | 16-Jan-09          | 248       | 13       | 114       | 235       | 121       | 94.76  | 51.49  | 48.79   |      |           | 19.42   | 976       | 63       | 375       | 913       | 538       | 93.5  | 58.9  | 55.1    |       |           | 10.87  |



## MEGHAHATUBURU IRON ORE MINES

## PERFORMANCE REPORT OF HEMM

| JULY 2018     |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         | 2018-2019    |              |              |              |              |     |         |              |       |        |
|---------------|------------------------------|-------------|----------|------------------------|--------------|--------------|-----------|--------------|-----------|-------|---------|--------------|------|--------------|---------|--------------|--------------|--------------|--------------|--------------|-----|---------|--------------|-------|--------|
| PROJ NO.      | CUMM. UTILIS<br>UPTO June'18 | MAKE / TYPE | CAPACITY | DATE OF<br>COMMISSION. | SCH.<br>HRS. | DOWN<br>HRS. | IDLE HRS. | AVL.<br>HRS. | UTL. HRS. | AV%   | NET UT% | OPRN<br>UT % | TRIP | FEED<br>RATE | HSD/HR  | SCH.<br>HRS. | DOWN<br>HRS. | IDLE<br>HRS. | AVL.<br>HRS. | UTL.<br>HRS. | AV% | UT% net | Oprn<br>UT % | TRIP  | HSD/HR |
| EXCAVATORS    |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         |              |              |              |              |              |     |         |              |       |        |
| 4.5 CUM.      |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         |              |              |              |              |              |     |         |              |       |        |
| BE-11         | 36231                        | BEML        | 4.5 CUM  | 30-09-2005             | 744          | 391          | 239       | 353          | 115       | 47    | 15.39   | 32.44        | 544  | 4.75         | 22      | 2928         | 2335         | 453          | 593          | 141          | 20  | 5       | 24           | 644   | 22     |
|               |                              |             | 4.5 CUM  | TOTAL                  | 744          | 391          | 239       | 353          | 115       | 47    | 15.39   | 32.44        | 544  | 4.75         | 22      | 2928         | 2335         | 453          | 593          | 141          | 20  | 5       | 24           | 644   | 22     |
| 9.5 CUM.      |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         |              |              |              |              |              |     |         |              |       |        |
| PC-14         | 28987                        | KOMATSU     | 9.5 CUM  | 20-01-2012             | 744          | 564          | 65        | 180          | 115       | 24.19 |         | 63.89        | 1282 | 11.15        | 77      | 2928         | 1402         | 653          | 1527         | 874          | 52  | 30      | 57           | 10465 | 76     |
| PC-17         | 13483                        | KOMATSU     | 9.5 CUM  | 24-07-2015             | 744          | 267          | 188       | 477          | 289       | 64.11 | 38.84   | 60.59        | 3279 | 11.35        | 76      | 2928         | 708          | 803          | 2220         | 1417         | 76  | 48      | 64           | 17751 | 78     |
| PC-18         | 26986                        | KOMATSU     | 9.5 CUM  | 11-07-2016             | 744          | 168          | 173       | 577          | 404       | 77.49 | 54.30   | 70.08        | 4661 | 11.54        | 79      | 2928         | 792          | 771          | 2137         | 1366         | 73  | 47      | 64           | 15952 | 79     |
|               |                              |             | 9.5 CUM  | TOTAL                  | 2232         | 999          | 426       | 1234         | 808       | 55.26 | 36.20   | 65.50        | 9222 | 11.34        | 77      | 8784         | 2901         | 2226         | 5883         | 3657         | 67  | 42      | 62           | 44168 | 78     |
| DUMPER,50 TE  |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         |              |              |              |              |              |     |         |              |       |        |
| D - 49        | 27962                        | BEML        | 50 TON   | 05-03-2007             | 744          | 103          | 593       | 641          | 49        | 86.16 | 6.52    | 7.57         | 138  | 2.85         | 26      | 2928         | 1034         | 1535         | 1894         | 359          | 65  | 12      | 19           | 844   | 24     |
| D - 50        | 23971                        | BEML        | 50 TON   | 15-04-2007             | 744          | 744          |           |              |           |       |         | #DIV/0!      |      | #DIV/0!      | #DIV/0! | 2928         | 2898         | 14           | 30           | 16           | 1   | 1       | 53           | 16    | 19     |
|               |                              |             | 50 TON   | TOTAL                  | 1488         | 847          | 593       | 641          | 49        | 43.08 | 3.26    | 7.57         | 138  | 2.85         | 26      | 5856         | 3932         | 1549         | 1924         | 375          | 33  | 6       | 19           | 860   | 24     |
| DUMPER,100 TE |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         |              |              |              |              |              |     |         |              |       |        |
| D - 51        | 27132                        | KOMATSU     | 100 TON  | 01-09-2010             | 744          | 111          | 224       | 633          | 409       | 85.08 | 54.97   | 64.61        | 1352 | 3.31         | 33      | 2928         | 658          | 759          | 2270         | 1511         | 78  | 52      | 67           | 5562  | 36     |
| D - 52        | 28701                        | KOMATSU     | 100 TON  | 01-09-2010             | 744          | 124          | 218       | 620          | 402       | 83.33 | 54.03   | 64.84        | 1353 | 3.37         | 35      | 2928         | 626          | 706          | 2302         | 1596         | 79  | 55      | 69           | 5666  | 26     |
| D - 53        | 26874                        | KOMATSU     | 100 TON  | 01-09-2010             | 744          | 744          |           |              |           |       |         | #DIV/0!      |      | #DIV/0!      | #DIV/0! | 2928         | 2820         | 39           | 108          | 69           | 4   | 2       | 64           | 243   | 89     |
| D - 54        | 14512                        | CATER       | 100 TON  | 06-02-2012             | 744          | 744          |           |              |           |       |         | #DIV/0!      |      | #DIV/0!      | #DIV/0! | 2928         | 1869         | 801          | 1060         | 259          | 36  | 9       | 24           | 887   | 47     |
| D - 55        | 16771                        | CATER       | 100 TON  | 06-02-2012             | 744          | 235          | 426       | 509          | 83        | 68.41 | 11.16   | 16.31        | 334  | 4.02         | 37      | 2928         | 943          | 1436         | 1986         | 550          | 68  | 19      | 28           | 1960  | 44     |
| D - 56        | 5715                         | BEML        | 100 TON  | 09-05-2016             | 744          | 214          | 258       | 530          | 272       | 71.24 | 36.56   | 51.32        | 968  | 3.56         | 37      | 2928         | 872          | 902          | 2056         | 1154         | 70  | 39      | 56           | 4280  | 37     |
| D - 57        | 5929                         | BEML        | 100 TON  | 09-05-2016             | 744          | 230          | 247       | 514          | 267       | 69.09 | 35.89   | 51.95        | 874  | 3.27         | 36      | 2928         | 861          | 1003         | 2068         | 1065         | 71  | 36      | 52           | 3710  | 25     |
|               |                              |             | 100 TON  | TOTAL                  | 5208         | 2402         | 1373      | 2806         | 1433      | 53.88 | 27.52   | 51.07        | 4881 | 3.41         | 35      | 20496        | 8648         | 5645         | 11849        | 6204         | 58  | 30      | 52           | 22308 | 34     |
| DRILL         |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         |              |              |              |              |              |     |         |              |       |        |
| DM - 7        | 23476.5                      | IR          | 6 " DIA  | 01-04-2005             | 372          | 372          |           |              |           |       |         | #DIV/0!      |      | #DIV/0!      | #DIV/0! | 1464         | 889          | 344          | 575          | 232          | 39  | 16      | 40           | 1474  | 34     |
| DM - 8        | 20315                        | IR          | 6 " DIA  | 05-05-2008             | 372          | 372          |           |              |           |       |         | #DIV/0!      |      | #DIV/0!      | #DIV/0! | 1464         | 560          | 190          | 904          | 714          | 62  | 49      | 79           | 10104 | 35     |
| DM - 9        | 18565.5                      | IR          | 6 " DIA  | 16-09-2009             | 372          | 140          | 74        | 233          | 159       | 62.50 | 42.61   | 68.17        | 3039 | 19.17        | 41      | 1464         | 1065         | 147          | 400          | 253          | 27  | 17      | 63           | 3505  | 39     |
| DM - 10       | 10521.5                      | IR          | 6 " DIA  | 06-11-2014             | 372          | 34           | 50        | 338          | 288       | 90.86 | 77.42   | 85.21        | 5234 | 18.17        | 34      | 1464         | 177          | 237          | 1288         | 1051         | 88  | 72      | 82           | 17652 | 31     |
|               |                              | 3           |          | TOTAL                  | 1488         | 918          | 124       | 571          | 447       | 38.34 | 30.01   | 78.26        | 8273 | 18.53        | 37      | 5856         | 2690         | 918          | 3166         | 2249         | 54  | 38      | 71           | 32735 | 33     |
| DOZER         |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         |              |              |              |              |              |     |         |              |       |        |
| DOZ-23        | 20990.5                      | BEML        | 410 HP   | 02-10-2008             | 744          | 235          | 284       | 509          | 226       | 68.41 | 30.31   | 44.30        |      |              | 26      | 2928         | 945          | 1011         | 1983         | 973          | 68  | 33      | 49           |       | 24     |
| DOZ-24        | 17087                        | BEML        | 410 HP   | 06-04-2010             | 744          | 156          | 403       | 588          | 186       | 79.03 | 24.93   | 31.55        |      |              | 26      | 2928         | 927          | 1069         | 2001         | 932          | 68  | 32      | 47           |       | 24     |
| DOZ-25        | 7585.5                       | BEML        | 410 HP   | 28-12-2010             | 744          | 639          | 65        | 105          | 41        | 14.11 | 5.44    | 38.57        |      |              | 25      | 2928         | 2819         | 67           | 109          | 43           | 4   | 1       | 39           |       |        |
| DOZ-26        | 15795                        | BEML        | 410 HP   | 16-05-2011             | 744          | 744          |           |              |           |       |         | #DIV/0!      |      |              | #DIV/0! | 2928         | 1571         | 827          | 1357         | 530          | 46  | 18      | 39           |       | 25     |
| DOZ-27        | 9162                         | BEML        | 410 HP   | 28-04-2015             | 744          | 499          | 120       | 245          | 125       | 32.93 | 16.80   | 51.02        |      |              | 24      | 2928         | 1563         | 684          | 1366         | 682          | 47  | 23      | 50           |       | 24     |
| DOZ-28        | 1164                         | BEML        |          |                        | 744          | 93           |           |              | 371       |       | 49.87   | #DIV/0!      |      |              |         | 2928         | 575          | 1190         | 2354         | 1164         | 80  | 40      | 49           |       | 25     |
|               |                              | 6           |          | TOTAL                  | 3720         | 2273         | 871       | 1447         | 577       | 38.90 | 15.50   | 39.84        |      |              | 26      | 17568        | 8399         | 4846         | 9169         | 4323         | 52  | 25      | 47           |       | 24     |
| PAY LOADER    |                              |             |          |                        |              |              |           |              |           |       |         |              |      |              |         |              |              |              |              |              |     |         |              |       |        |
| PL - 03       | 3985                         | HYUNDAI     | 3.7 CU.M | 18-09-2012             | 744          | 744          |           |              |           |       |         | #DIV/0!      |      | #DIV/0!      | #DIV/0! | 2928         | 2184         | 744          | 744          |              | 25  |         |              |       |        |
|               |                              |             |          | TOTAL                  | 744          | 744          |           |              |           |       |         | #DIV/0!      |      | #DIV/0!      | #DIV/0! | 2928         | 2184         | 744          | 744          |              | 25  |         |              |       |        |

PERFORMANCE REPORT OF HEMM



BOLANI MINES

| PROJ. NO.     | CUMM. UTILIS. UPTO July '18 | MAKE / TYPE       | CAPACITY | DATE OF COMMISSION. | JULY 2018 |          |           |           |           |        |        |         |      |           | 2018-19 |           |          |           |           |           |       |       |         |       |           |         |
|---------------|-----------------------------|-------------------|----------|---------------------|-----------|----------|-----------|-----------|-----------|--------|--------|---------|------|-----------|---------|-----------|----------|-----------|-----------|-----------|-------|-------|---------|-------|-----------|---------|
|               |                             |                   |          |                     | SCH. HRS. | B/D HRS. | IDLE HRS. | AVL. HRS. | UTL. HRS. | AV%    | UT%    | NET UT% | TRIP | FEED RATE | HSD/HR  | SCH. HRS. | B/D HRS. | IDLE HRS. | AVL. HRS. | UTL. HRS. | AV%   | UT%   | NET UT% | TRIP  | FEED RATE | HSD/ HR |
| EXCAVATORS    |                             |                   |          |                     |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |         |
| EX-25         | 33593                       | BEML PC-1000(D)   | 4.5 CuM  | 21-Jun-04           | 744       | 268      | 423       | 476       | 53        | 63.98  | 11.13  | 7.12    |      |           | 21.51   | 2928      | 762      | 1920      | 2166      | 247       | 73.98 | 11.38 | 8.42    |       |           | 51.95   |
| EX-26         | 30627                       | BEML PC-1000(D)   | 4.5 CuM  | 24-Jun-05           | 744       | 4        | 679       | 741       | 62        | 99.53  | 8.37   | 8.33    |      |           | 21.84   | 2928      | 422      | 2188      | 2506      | 318       | 85.58 | 12.69 | 10.86   |       |           | 50.39   |
|               |                             |                   |          | SUB TOTAL           | 1488      | 272      | 1102      | 1217      | 115       | 81.75  | 9.45   | 7.73    |      |           | 21.69   | 5856      | 1184     | 4108      | 4672      | 565       | 79.78 | 12.08 | 9.64    |       |           | 51.07   |
| EX-28         | 15125                       | BE-1600           | 7.5 Cu.m | 22-Jun-10           | 744       | 704      | 40        | 40        |           | 5.38   |        |         |      |           |         | 2928      | 2353     | 535       | 576       | 41        | 19.66 | 7.04  | 1.38    |       |           | 37.04   |
| EX-29         | 23984                       | KOMATSU PC-2000-8 | 9.5 Cu.M | 01-Nov-10           | 744       | 198      | 379       | 546       | 167       | 73.35  | 30.54  | 22.40   | 631  | 3.79      | 92.19   | 2928      | 986      | 1562      | 1942      | 380       | 66.33 | 19.56 | 12.98   | 1276  | 3.36      | 72.96   |
| EX-30         | 12222                       | KOMATSU PC-2000-8 | 9.5 Cu.M | 03-Aug-15           | 744       | 39       | 411       | 705       | 294       | 94.72  | 41.74  | 39.54   | 1600 | 5.44      | 76.37   | 2928      | 135      | 1407      | 2793      | 1387      | 95.40 | 49.64 | 47.36   | 10294 | 7.42      | 73.88   |
| EX-31         | 10867                       | KOMATSU PC-2000-8 | 9.5 Cu.M | 05-Sep-15           | 744       | 55       | 347       | 689       | 342       | 92.64  | 49.59  | 45.94   | 1717 | 5.02      | 79.52   | 2928      | 236      | 1454      | 2692      | 1238      | 91.95 | 45.98 | 42.28   | 7586  | 6.13      | 75.42   |
|               |                             |                   |          | SUB TOTAL           | 2976      | 996      | 1177      | 1980      | 803       | 66.52  | 40.54  | 26.97   | 3948 | 4.92      | 81.00   | 11712     | 3709     | 4958      | 8003      | 3045      | 68.33 | 38.05 | 26.00   | 19156 | 6.29      | 73.90   |
|               |                             |                   |          | TOTAL               | 4464      | 1268     | 2279      | 3196      | 918       | 71.60  | 28.71  | 20.56   | 3948 | 4.30      | 73.56   | 17568     | 4893     | 9066      | 12675     | 3610      | 72.15 | 28.48 | 20.55   | 19156 | 5.31      | 70.33   |
| DUMPER,50 TE  |                             |                   |          |                     |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |         |
| HP-27         | 19667                       | BEML HP-210M      | 50 T     | 09-Sep-03           | 744       | 744      |           |           |           |        |        |         |      |           |         | 2928      | 2419     | 406       | 510       | 104       | 17.40 | 20.31 | 3.53    |       |           | 20.53   |
| HP-30         | 17457                       | C.I.773D(I)       | 50 T     | 01-Mar-06           | 744       | 432      | 312       | 312       |           | 41.94  |        |         |      |           |         | 2928      | 980      | 1806      | 1948      | 142       | 66.53 | 7.29  | 4.85    |       |           | 21.49   |
| HP-32         | 23223                       | BEML BH-50M       | 50 T     | 06-Mar-08           | 744       | 373      | 341       | 371       | 30        | 49.87  | 8.09   | 4.03    |      |           | 25.87   | 2928      | 2085     | 715       | 843       | 129       | 28.79 | 15.24 | 4.39    |       |           | 41.18   |
|               |                             |                   |          | TOTAL               | 2232      | 1549     | 653       | 683       | 30        | 92     | 8      | 4       |      |           | 26      | 8784      | 6484     | 2927      | 3301      | 374       | 113   | 43    | 13      |       |           | 83      |
| DUMPER,100 TE |                             |                   |          |                     |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |         |
| HP-32A        | 27476                       | KOMATSU HD785-7   | 100 T    | 22-Jun-10           | 744       | 117      | 295       | 627       | 332       | 84.31  | 53.00  | 44.68   | 1005 | 3.02      | 39.84   | 2928      | 973      | 953       | 1955      | 1001      | 66.76 | 51.23 | 34.20   | 3006  | 3.00      | 39.08   |
| HP-34         | 26314                       | KOMATSU HD785-7   | 100 T    | 22-Jun-10           | 744       | 511      | 126       | 233       | 108       | 31.32  | 46.14  | 14.45   | 298  | 2.77      | 31.60   | 2928      | 2170     | 448       | 758       | 310       | 25.88 | 40.94 | 10.60   | 853   | 2.75      | 36.56   |
| HP-35         | 15401                       | BEML BH-100       | 100 T    | 22-Jun-10           | 744       | 608      | 136       | 136       |           | 18.28  |        |         |      |           |         | 2928      | 1662     | 1223      | 1266      | 44        | 43.24 | 3.44  | 1.49    | 63    | 1.45      | 24.92   |
| HP-36         | 11614                       | BEML BH-100       | 100 T    | 22-Jun-10           | 744       | 464      | 272       | 280       | 8         | 37.63  | 2.86   | 1.08    |      |           |         | 2928      | 965      | 1801      | 1963      | 162       | 67.04 | 8.25  | 5.53    | 440   | 2.72      | 38.85   |
| HP-37         | 18277                       | CAT 777D          | 100 T    | 25-Jan-12           | 744       | 186      | 339       | 558       | 218       | 74.97  | 39.16  | 29.36   | 697  | 3.19      | 37.23   | 2928      | 706      | 1295      | 2222      | 927       | 75.88 | 41.72 | 31.66   | 2922  | 3.15      | 37.02   |
| HP-38         | 7144                        | BEML BH-100S      | 100 T    | 03-May-16           | 744       | 174      | 417       | 571       | 153       | 76.68  | 26.86  | 20.60   | 474  | 3.09      | 43.84   | 2928      | 472      | 1723      | 2456      | 734       | 83.89 | 29.86 | 25.05   | 2122  | 2.89      | 37.82   |
| HP-39         | 6837                        | BEML BH-100S      | 100 T    | 03-May-16           | 744       | 54       | 493       | 690       | 197       | 92.72  | 28.52  | 26.44   | 635  | 3.23      | 37.49   | 2928      | 333      | 1657      | 2595      | 938       | 88.62 | 36.13 | 32.02   | 2961  | 3.16      | 37.94   |
| HP-40         | 6817                        | BEML BH-100S      | 100 T    | 03-May-16           | 744       | 50       | 414       | 694       | 281       | 93.31  | 40.43  | 37.72   | 839  | 2.99      | 40.34   | 2928      | 141      | 1782      | 2788      | 1005      | 95.20 | 36.06 | 34.33   | 2978  | 2.96      | 39.11   |
|               |                             |                   |          | TOTAL               | 5952      | 2163     | 2492      | 3789      | 1297      | 63.65  | 34.23  | 21.79   | 3948 | 3.04      | 38.70   | 23424     | 7422     | ####      | 16002     | 5120      | 68.31 | 32.00 | 21.86   | 15345 | 3.00      | 38.04   |
| DRILL         |                             |                   |          |                     |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |         |
| DM-11         | 16107                       | AC-ROTACOL-IDM-30 | 160mm    | 14-Feb-08           | 496       | 68       | 257       | 428       | 171       | 86.31  | 39.98  | 34.51   | 1581 | 9.24      | 38.05   | 1952      | 249      | 1117      | 1703      | 586       | 87.24 | 34.39 | 30.00   | 6012  | 10.27     | 31.44   |
| DM-12         | 17188                       | AC-ROTACOL-IDM-30 | 160mm    | 12-Aug-09           | 496       |          |           | 496       | 496       | 100.00 | 100.00 | 100.00  |      |           |         | 1952      | 1028     | 388       | 924       | 536       | 47.33 | 58.06 | 27.48   |       |           | 0.84    |
| DM-12A        | 15268                       | AC-ROTACOL-IDM-30 | 160mm    | 22-Mar-11           | 496       | 62       | 325       | 435       | 110       | 87.60  | 25.28  | 22.14   | 1524 | 13.88     | 45.60   | 1952      | 248      | 1220      | 1704      | 484       | 87.28 | 28.41 | 24.80   | 5594  | 11.56     | 38.51   |
| DM-14         | 8096                        | AC-ROTACOL-IDM-30 | 160mm    | 19-Nov-14           | 496       | 48       | 236       | 448       | 211       | 90.27  | 47.22  | 42.63   | 2311 | 10.93     | 38.68   | 1952      | 433      | 808       | 1520      | 711       | 77.84 | 46.80 | 36.43   | 6353  | 8.93      | 33.40   |
|               |                             |                   |          | TOTAL               | 1984      | 178      | 818       | 1806      | 988       | 91.04  | 54.72  | 49.82   | 5416 | 5.48      | 19.93   | 7808      | 1958     | 3533      | 5850      | 2317      | 74.92 | 39.61 | 29.68   | #REF! | #REF!     | #REF!   |
| DOZER         |                             |                   |          |                     |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |         |
| DOZ-21        | 20045                       | BEML BD355        | 410 HP   | 10-May-04           | 504       | 504      |           |           |           |        |        |         |      |           |         | 1984      | 1984     |           |           |           |       |       |         |       |           |         |
| DOZ-22        | 14910                       | BEML BD355        | 410 HP   | 06-Jul-07           | 496       | 55       | 250       | 442       | 191       | 89.01  | 43.28  | 38.52   |      |           | 34.31   | 1984      | 241      | 1032      | 1744      | 712       | 87.88 | 40.83 | 35.88   |       |           | 36.95   |
| DOZ-23        | 11086                       | BEML BD355        | 410 HP   | 27-Aug-08           | 496       | 96       | 283       | 400       | 117       | 80.65  | 29.25  | 23.59   |      |           | 36.01   | 1968      | 306      | 1163      | 1662      | 499       | 84.45 | 30.02 | 25.36   |       |           | 44.48   |
| DOZ-24        | 12271                       | BEML BD355        | 410 HP   | 09-Mar-10           | 744       | 46       | 515       | 698       | 183       | 93.82  | 26.22  | 24.60   |      |           | 23.33   | 2680      | 404      | 1764      | 2276      | 512       | 84.93 | 22.50 | 19.11   |       |           | 37.57   |
| DOZ-25        | 10721                       | BEML BD355        | 410 HP   | 09-Mar-10           | 496       | 215      | 199       | 281       | 82        | 56.65  | 29.18  | 16.53   |      |           | 40.94   | 1984      | 945      | 669       | 1039      | 370       | 52.36 | 35.62 | 18.65   |       |           | 36.48   |
| DOZ-26        | 7629                        | BEML BD355        | 410 HP   | 03-May-14           | 496       | 23       | 339       | 473       | 135       | 95.36  | 28.44  | 27.12   |      |           | 37.49   | 2016      | 430      | 1135      | 1586      | 451       | 78.67 | 28.42 | 22.36   |       |           | 68.40   |
| DOZ-27        | 5838                        | BEML BD355        | 410 HP   | 03-May-14           | 496       | 203      | 265       | 294       | 29        | 59.17  | 9.82   | 5.81    |      |           | 66.25   | 1992      | 1603     | 329       | 390       | 61        | 19.55 | 15.62 | 3.05    |       |           | 107.41  |
| DOZ-28        | 4893                        | BEML BD356        | 410 HP   | 26-Apr-16           | 744       | 37       | 506       | 707       | 201       | 95.03  | 28.43  | 27.02   |      |           | 24.09   | 2688      | 213      | 1780      | 2475      | 695       | 92.06 | 28.08 | 25.85   |       |           | 40.47   |
|               |                             |                   |          | TOTAL               | 4472      | 1178     | 2357      | 3294      | 937       | 73.66  | 28.46  | 20.96   |      |           | 32.21   | 17296     | 6126     | 7871      | 11170     | 3299      | 64.58 | 29.54 | 19.08   |       |           | 44.47   |
| PAY LOADER    |                             |                   |          |                     |           |          |           |           |           |        |        |         |      |           |         |           |          |           |           |           |       |       |         |       |           |         |
| PL-20         | 13538                       | Kawasaki, 90Ziv-2 | 256 HP   | 26-Aug-09           | 744       | 414      | 268       | 330       | 62        | 44.35  | 18.79  | 8.33    |      |           | 10.29   | 2928      | 2187     | 596       | 741       | 145       | 25.31 | 19.57 | 4.95    |       |           | 23.81   |
| PL-22         | 10573                       | Hyundai-hi770-7A  | 280 HP   | 26-May-10           | 744       | 744      |           |           |           |        |        |         |      |           |         | 2928      | 2880     | 48        | 48        |           | 1.64  |       |         |       |           |         |
| PL-23         | 8262                        | Kawasaki, 90ZV    | 257 HP   | 07-Oct-15           | 744       | 49       | 455       | 695       | 240       | 93.41  | 34.53  | 32.26   |      |           | 24.83   | 2928      | 180      | 1693      | 2748      | 1055      | 93.85 | 38.38 | 36.02   |       |           | 27.25   |
|               |                             |                   |          | TOTAL               | 2232      | 1207     | 723       | 1025      | 302       | 45.92  | 29.46  | 13.53   |      |           | 22.64   | 8784      | 5247     | 2337      | 3537      | 1200      | 40.27 | 33.91 | 13.66   |       |           | 27.14   |

# PERFORMANCE REPORT OF HEMM

BARSUA MINES



SAIL-RMD

| PROJ. NO.   | CUMM. UTILIS. UPTO June '18 | MAKE / TYPE         | CAP     | DATE OF COMMISSION | JULY 2018 |          |           |           |           |        |       |         |       |           | 2018-19 |           |          |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
|---|-----------------------------|---------------------|---------|--------------------|-----------|----------|-----------|-----------|-----------|--------|-------|---------|-------|-----------|---------|-----------|----------|-----------|-----------|-----------|-------|-------|---------|-------|-----------|--------|-------|--|--|--|--|--|
|   |                             |                     |         |                    | SCH. HRS. | B/D HRS. | IDLE HRS. | AVL. HRS. | UTL. HRS. | AV%    | UT%   | NET UT% | TRIP  | FEED RATE | HSD/HR  | SCH. HRS. | B/D HRS. | IDLE HRS. | AVL. HRS. | UTL. HRS. | AV%   | UT%   | NET UT% | TRIP  | FEED RATE | HSD/HR |       |  |  |  |  |  |
| EXCAVATORS  |                             |                     |         |                    |           |          |           |           |           |        |       |         |       |           |         |           |          |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
| EX-20   | 25213                       | BEML, BE-1000       | 4.5 CuM | Mar-04             | 624       | 86       | 421       | 538       | 117       | 86.22  | 21.75 | 19      | 693   | 5.92      | 43.16   | 1832      | 181      | 1453      | 1651      | 198       | 90.12 | 11.99 | 10.81   | 1305  | 6.59      | 50.25  |       |  |  |  |  |  |
| EX-21   | 17680                       | TELCON, 1200V-1018  | 5.9 CuM | 28-May-07          | 624       | 146      | 441       | 478       | 37        | 76.60  | 7.74  | 6       | 184   | 4.97      | 60.81   | 1840      | 262      | 1363      | 1578      | 215       | 85.76 | 13.62 | 11.68   | 1571  | 7.31      | 67.21  |       |  |  |  |  |  |
| EX-22   | 18691                       | BEML, BE-1000       | 4.5 CuM | 22-Dec-08          | 208       | 14       | 167       | 194       | 27        | 93.27  | 13.92 | 13      |       |           | 57.41   | 1128      | 168      | 676       | 970       | 294       | 85.99 | 30.31 | 26.06   | 522   | 1.78      | 42.35  |       |  |  |  |  |  |
| EX-23   | 15805                       | BEML, BE-1000       | 4.5CuM  | 18-Feb-10          | 208       | 208      |           |           |           |        |       |         |       |           |         | 1128      | 1128     |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
| EX-24   | 11341                       | BEML, BE-1600       | 7.5CuM  | 04-Aug-11          | 624       | 71       | 336       | 553       | 217       | 88.62  | 39.24 | 35      | 792   | 3.65      | 59.45   | 1832      | 228      | 1247      | 1606      | 358       | 87.58 | 22.28 | 19.51   | 1950  | 5.45      | 66.01  |       |  |  |  |  |  |
| EX-27   | 506                         | BEML, BE-1000-1     | 4.5 CuM | 19-Dec-17          | 624       | 59       | 424       | 565       | 141       | 90.54  | 24.96 | 23      | 419   | 2.97      | 55.32   | 1824      | 197      | 1214      | 1627      | 413       | 89.20 | 25.38 | 22.64   | 2863  | 6.93      | 56.27  |       |  |  |  |  |  |
| * EX 22 & 23 are being utilised at Taldih, EX-24 Engine sent to GOM |                             |                     |         |                    | TOTAL     | 2288     | 525       | 1365      | 1763      | 398    | 77.05 | 22.58   | 17.40 | 1668      | 4.19    | 74.25     | 7760     | 1957      | 4739      | 5804      | 1065  | 74.79 | 18.34   | 13.72 | 5347      | 5.02   | 56.79 |  |  |  |  |  |
| DUMPER, 50 TE   |                             |                     |         |                    |           |          |           |           |           |        |       |         |       |           |         |           |          |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
| HPD-87  | 26437                       | BEML, 210M          | 50T     | Apr-2000           | 624       | 239      | 303       | 385       | 82        | 61.70  | 21.30 | 13.14   | 239   | 2.91      | 36.59   | 1832      | 286      | 1412      | 1546      | 134       | 84.39 | 8.67  | 7.31    | 393   | 2.93      | 42.01  |       |  |  |  |  |  |
| HPD-90  | 16403                       | BEML, 210M          | 50T     | APR'05             | 744       |          | 744       | 744       |           | 100.00 |       |         |       |           |         | 2016      | 531      | 1485      | 1485      |           | 73.66 |       |         |       |           |        |       |  |  |  |  |  |
| BH-93 (WT)  | 23594                       | BEML, 210M          | 50T     | 21-Feb-08          | 208       | 208      |           |           |           |        |       |         |       |           |         | 1156      | 450      | 550       | 706       | 156       | 61.07 | 22.10 | 13.49   | 42    | 0.27      | 23.78  |       |  |  |  |  |  |
| BH-94   | 22352                       | BH-50 M             | 50T     | 22-Dec-08          | 448       | 234      | 147       | 214       | 67        | 47.77  | 31.31 | 14.96   | 91    | 1.36      | 41.04   | 1064      | 301      | 602       | 763       | 161       | 71.71 | 21.10 | 15.13   | 91    | 0.57      | 35.71  |       |  |  |  |  |  |
| BH-95   | 29920                       | BH-50 M             | 50T     | 6-Feb-09           | 624       | 171      | 219       | 453       | 234       | 72.60  | 51.66 | 37.50   | 560   | 2.39      | 30.67   | 2000      | 322      | 894       | 1678      | 784       | 83.90 | 46.72 | 39.20   | 1956  | 2.49      | 29.62  |       |  |  |  |  |  |
| BH-96   | 24931                       | BH-50 M             | 50T     | 20-Aug-09          | 624       | 624      |           |           |           |        |       |         |       |           |         | 1832      | 1311     | 486       | 521       | 35        | 28.44 | 6.72  | 1.91    | 94    | 2.69      | 64.29  |       |  |  |  |  |  |
| BH-99 (@ MIOM-13809)  | 8834                        | BH-50 M             | 50T     | 20-Feb-14          | 624       | 186      | 281       | 438       | 157       | 70.19  | 35.84 | 25.16   | 414   | 2.64      | 33.60   | 2056      | 450      | 1136      | 1606      | 470       | 78.11 | 29.27 | 22.86   | 841   | 1.79      | 29.70  |       |  |  |  |  |  |
| * BH-95, 96 & 99 are being utilised at Taldih                       |                             |                     |         |                    | TOTAL     | 3896     | 1662      | 1694      | 2234      | 540    | 57.34 | 24.17   | 13.86 | 1304      | 2.42    | 33.71     | 11956    | 3651      | 6565      | 8305      | 1740  | 69.46 | 20.95   | 14.55 | 3417      | 1.96   | 31.33 |  |  |  |  |  |
| DUMPER, 60 TE   |                             |                     |         |                    |           |          |           |           |           |        |       |         |       |           |         |           |          |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
| HPD-101   | 1522                        | BEML, BH-60         | 60 T    | 16-Nov-17          | 624       | 63       | 30        | 561       | 531       | 89.90  | 94.65 | 85.10   | 44    | 0.08      | 25.07   | 1832      | 166      | 243       | 1666      | 1423      | 90.94 | 85.41 | 77.67   | 1829  | 1.29      | 22.80  |       |  |  |  |  |  |
| HPD-102   | 1333                        | BEML, BH-60         | 60 T    | 23-Nov-17          | 624       | 84       | 61        | 540       | 479       | 86.54  | 88.70 | 76.76   | 41    | 0.09      | 28.81   | 1832      | 239      | 334       | 1593      | 1259      | 86.95 | 79.03 | 68.72   | 1541  | 1.22      | 26.19  |       |  |  |  |  |  |
|   |                             |                     |         |                    | TOTAL     | 1248     | 147       | 91        | 1101      | 1010   | 88.22 | 91.73   | 80.93 | 85        | 0.08    | 26.84     | 3664     | 405       | 577       | 3259      | ##### | 88.95 | 82.30   | 73.20 | 3370      | 1.26   | 24.39 |  |  |  |  |  |
| DUMPER, 100 TE  |                             |                     |         |                    |           |          |           |           |           |        |       |         |       |           |         |           |          |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
| BH-97   | 8638                        | BEML, BH-100        | 100 T   | 4-Aug-11           | 416       | 11       | 387       | 405       | 18        | 97.36  | 4.44  | 4.33    | 45    | 2.47      | 66.67   | 1336      | 42       | 1249      | 1294      | 45        | 96.86 | 3.48  | 3.37    | 128   | 2.83      | 90.00  |       |  |  |  |  |  |
| BH-98   | 7941                        | BEML, BH-100        | 100 T   | 04-Aug-11          | 416       | 40       | 371       | 376       | 5         | 90.38  | 1.33  | 1.20    | 11    | 2.27      | 40.00   | 1336      | 169      | 1155      | 1177      | 22        | 88.10 | 1.87  | 1.65    | 54    | 2.47      | 115.91 |       |  |  |  |  |  |
|   |                             |                     |         |                    | TOTAL     | 832      | 51        | 758       | 781       | 23     | 93.87 | 2.94    | 2.76  | 56        | 2.43    | 60.87     | 2672     | 201       | 2404      | 2471      | 67.00 | 92.48 | 2.71    | 2.51  | 182       | 2.71   | 98.51 |  |  |  |  |  |
| DRILL   |                             |                     |         |                    |           |          |           |           |           |        |       |         |       |           |         |           |          |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
| DM-7  | 23486                       | AC - IDM-30         | 160mm   | 29-Jan-98          | 416       | 141      | 249       | 275       | 26        | 66.11  | 9.45  | 6.25    |       |           | 30.77   | 1336      | 388      | 887       | 948       | 61        | 70.96 | 6.43  | 4.57    |       |           | 35.25  |       |  |  |  |  |  |
| DM-9  | 9494                        | AC - IDM-30         | 160mm   | 30-Sep-09          | 416       | 199      | 156       | 217       | 61        | 52.16  | 28.11 | 14.66   |       |           | 45.08   | 1336      | 342      | 881       | 994       | 113       | 74.40 | 11.37 | 8.46    |       |           | 44.69  |       |  |  |  |  |  |
| DM-10   | 4680                        | AC - IDM-30         | 160mm   | 15-Jan-15          | 208       | 2        | 199       | 206       | 7         | 99.04  | 3.40  | 3.37    |       |           | 85.71   | 1128      | 35       | 977       | 1093      | 116       | 96.90 | 10.61 | 10.28   |       |           | 34.48  |       |  |  |  |  |  |
| * DM-10 is being utilised at Taldih                                 |                             |                     |         |                    | TOTAL     | 1040     | 342       | 604       | 698       | 94     | 67.12 | 13.47   | 9.04  |           |         | 44.15     | 3800     | 765       | 2745      | 3035      | 290   | 79.87 | 9.56    | 7.63  |           |        | 38.62 |  |  |  |  |  |
| DOZER   |                             |                     |         |                    |           |          |           |           |           |        |       |         |       |           |         |           |          |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
| TR-36 (B/V)   | 13925                       | BEML, D-155A        | 320 HP  | 23-Apr-05          | 744       | 20       | 724       | 724       |           | 97.31  |       |         |       |           |         | 2616      | 1267     | 1345      | 1349      | 4         | 51.57 | 0.30  | 0.15    |       |           |        |       |  |  |  |  |  |
| TR-37   | 14467                       | BEML, D-155A        | 320 HP  | 22-Jun-07          | 744       |          | 657       | 744       | 87        | 100.00 | 11.69 | 11.69   |       |           | 42.41   | 2640      | 864      | 1043      | 1776      | 733       | 67.27 | 41.27 | 27.77   |       |           | 14.20  |       |  |  |  |  |  |
| TR-38   | 15481                       | BEML, D-355         | 410 HP  | 16-Feb-10          | 208       | 8        | 153       | 200       | 47        | 96.15  | 23.50 | 22.60   |       |           | 34.04   | 1136      | 72       | 672       | 1064      | 392       | 93.66 | 36.84 | 34.51   |       |           | 22.96  |       |  |  |  |  |  |
| TR-39   | 10439                       | BEML, D-355         | 410 HP  | 10-Apr-12          | 624       | 19       | 549       | 605       | 56        | 96.96  | 9.26  | 8.97    |       |           | 33.04   | 2144      | 95       | 1223      | 2049      | 826       | 95.57 | 40.31 | 38.53   |       |           | 9.93   |       |  |  |  |  |  |
| TR-40   | 7398                        | BEML, D-355         | 410 HP  | 6-May-14           | 624       | 18       | 548       | 606       | 58        | 97.12  | 9.57  | 9.29    |       |           | 64.66   | 1832      | 70       | 1061      | 1762      | 701       | 96.18 | 39.78 | 38.26   |       |           | 8.99   |       |  |  |  |  |  |
| * TR-38 is being utilised at Taldih                                 |                             |                     |         |                    | TOTAL     | 2944     | 65        | 2631      | 2879      | 248    | 97.79 | 8.61    | 8.42  |           |         | 43.91     | 10368    | 2368      | 5344      | 8000      | 2656  | 77.16 | 33.20   | 25.62 |           |        | 12.77 |  |  |  |  |  |
| PAY LOADER  |                             |                     |         |                    |           |          |           |           |           |        |       |         |       |           |         |           |          |           |           |           |       |       |         |       |           |        |       |  |  |  |  |  |
| FEL-6   | 9766                        | L&T KOMAT. WA-470-3 | 260 HP  | 21-Jan-09          | 624       | 8        | 579       | 616       | 37        | 98.72  | 6.01  | 5.93    |       |           | 17.57   | 1832      | 15       | 1152      | 1817      | 665       | 99.18 | 36.60 | 36.30   |       |           | 3.16   |       |  |  |  |  |  |
| FEL-7   | 7064                        | HYUNDAI             | 280 HP  | 27-Aug-11          | 744       | 264      | 458       | 480       | 22        | 64.52  | 4.58  | 2.96    |       |           | 28.64   | 2616      | 354      | 1605      | 2262      | 657       | 86.47 | 29.05 | 25.11   |       |           | 2.94   |       |  |  |  |  |  |
|   |                             |                     |         |                    | TOTAL     | 1368     | 272       | 1037      | 1096      | 59     | 80.12 | 5.38    | 4.31  |           |         | 21.69     | 4448     | 369       | 2757      | 4079      | 1322  | 91.70 | 32.41   | 29.72 |           |        | 3.05  |  |  |  |  |  |

## GUA ORE MINES

## PERFORMANCE REPORT OF HEMM

| CUMM. UTILIS. UPTO July'18 |           | MAKE / TYPE         | CAPACITY | DATE OF COMMISSION. | JULY 2018 |           |           |      |      |          |         |           |         |           |           | 2018-2019 |           |           |      |      |          |        |           |         |       |       |
|----------------------------|-----------|---------------------|----------|---------------------|-----------|-----------|-----------|------|------|----------|---------|-----------|---------|-----------|-----------|-----------|-----------|-----------|------|------|----------|--------|-----------|---------|-------|-------|
| SCH. HRS.                  | DOWN HRS. |                     |          |                     | IDLE HRS. | AVL. HRS. | UTL. HRS. | AV%  | UT%  | NET UT % | TRIP    | FEED RATE | HSD/H R | SCH. HRS. | DOWN HRS. | IDLE HRS. | AVL. HRS. | UTL. HRS. | AV%  | UT%  | NET UT % | TRIP   | FEED RATE | HSD /HR |       |       |
| EXCAVATORS                 |           |                     |          |                     |           |           |           |      |      |          |         |           |         |           |           |           |           |           |      |      |          |        |           |         |       |       |
| > 4.5 CuM                  |           |                     |          |                     |           |           |           |      |      |          |         |           |         |           |           |           |           |           |      |      |          |        |           |         |       |       |
| D-12                       | 9667      | BE 1600             | 7.5 CuM  | 16-Feb-11           | 744       | 160       | 382       | 584  | 202  | 78.49    | 34.59   | 27.15     | 1079    | 5.34      | 49.13     | 2928      | 1079      | 1144      | 1849 | 705  | 63.15    | 38.13  | 24.08     | 2357    | 3.34  | 52.94 |
| D-12A                      | 18064     | BE 1000(D)          | 4.5 CuM  | 27-Apr-08           | 744       | 744       |           |      |      |          | #DIV/0! |           |         |           |           | 2928      | 2921      | -3        | 7    | 10   | 0.24     | 142.86 | 0.34      | 64      | 6.40  | 60.00 |
| D-14                       | 22791     | KOMATSU             | 9.5 CuM  | 06-Apr-12           | 744       | 69        | 476       | 675  | 199  | 90.73    | 29.48   | 26.75     | 1062    | 5.34      | 84.67     | 2928      | 416       | 1279      | 2512 | 1233 | 85.79    | 49.08  | 42.11     | 7099    | 5.76  | 80.55 |
| D-15                       | 16570     | KOMATSU             | 9.5 CuM  | 31-Aug-15           | 744       | 80        | 191       | 664  | 473  | 89.25    | 71.23   | 63.58     | 2606    | 5.51      | 77.91     | 2928      | 446       | 690       | 2482 | 1792 | 84.77    | 72.20  | 61.20     | 10383   | 5.79  | 80.75 |
| 4                          |           |                     |          | TOTAL               | 2976      | 1053      | 1049      | 1923 | 874  | 64.62    | 45.45   | 45.45     | 4747    | 5.43      | 72.80     | 11712     | 4862      | 3110      | 6850 | 3740 | 58.49    | 54.60  | 31.93     | 19903   | 5.32  | 75.39 |
| DUMPER,50 TE               |           |                     |          |                     |           |           |           |      |      |          |         |           |         |           |           |           |           |           |      |      |          |        |           |         |       |       |
| R/D-85                     | 18553     | BEML-BH-50M         | 50 Te    | Mar- 08             | 744       | 744       |           |      |      |          | #DIV/0! |           |         |           |           | 2928      | 2952      | -24       | -24  |      | -0.82    |        |           |         |       |       |
| R/D-86                     | 19880     | BEML-BH-50M         | 50Te     | Sep-08              | 744       | 256       | 488       | 488  |      | 65.59    |         |           |         |           |           | 2928      | 593       | 2292      | 2335 | 43   | 79.75    | 1.84   | 1.47      |         |       | 13.95 |
| R/D-87                     | 17443     | BEML-BH-50M         | 50Te     | Dec-08              | 744       | 744       |           |      |      |          | #DIV/0! |           |         |           |           | 2928      | 824       | 2093      | 2104 | 11   | 71.86    | 0.52   | 0.38      |         |       | 63.64 |
| 2                          |           |                     |          | TOTAL               | 2232      | 1744      | 488       | 488  |      | 21.86    |         |           |         |           |           | 8784      | 4369      | 4361      | 4415 | 54   | 50.26    | 1.22   | 0.61      |         |       | 24.07 |
| DUMPER,100 TE              |           |                     |          |                     |           |           |           |      |      |          |         |           |         |           |           |           |           |           |      |      |          |        |           |         |       |       |
| R/D-88                     | 23821     | KOMAT.HD785-7       | 100 T    | 10-Sep-10           | 744       | 744       |           |      |      |          | #DIV/0! |           |         |           |           | 2928      | 1978      | 165       | 950  | 785  | 32.45    | 82.63  | 26.81     | 2216    | 2.82  | 55.85 |
| R/D-89                     | 24386     | KOMAT.HD785-7       | 100 T    | 10-Sep-10           | 744       | 150       | 109       | 594  | 485  | 79.84    | 81.65   | 65.19     | 1198    | 2.47      | 46.71     | 2928      | 499       | 483       | 2429 | 1946 | 82.96    | 80.12  | 66.46     | 5290    | 2.72  | 48.60 |
| R/D-90                     | 16591     | CAT 777D            | 100 T    | 25-Jan-12           | 744       | 203       | 334       | 541  | 207  | 72.72    | 38.26   | 27.82     | 964     | 4.66      | 49.25     | 2928      | 2404      | 310       | 524  | 214  | 17.90    | 40.84  | 7.31      | 978     | 4.57  | 47.64 |
| R/D-91                     | 13282     | CAT 777D            | 100 T    | 25-Jan-12           | 744       | 131       | 308       | 613  | 305  | 82.39    | 49.76   | 40.99     | 800     | 2.62      | 51.27     | 2928      | 521       | 1103      | 2407 | 1304 | 82.21    | 54.18  | 44.54     | 5421    | 4.16  | 50.07 |
| R/D-92                     | 8988      | BEML- BH 100        | 100 T    | 27-May-15           | 744       | 398       | 163       | 346  | 183  | 46.51    | 52.89   | 24.60     | 435     | 2.38      | 59.45     | 2928      | 1341      | 701       | 1587 | 886  | 54.20    | 55.83  | 30.26     | 2290    | 2.58  | 54.46 |
| R/D-93                     | 7068      | BEML - BH 100       | 100 T    | 10-Jun-15           | 744       | 88        | 161       | 656  | 495  | 88.17    | 75.46   | 66.53     | 1350    | 2.73      | 49.76     | 2928      | 1131      | 493       | 1797 | 1304 | 61.37    | 72.57  | 44.54     | 3720    | 2.85  | 50.41 |
| 6                          |           |                     |          | TOTAL               | 4464      | 1714      | 1075      | 2750 | 1675 | 61.60    | 60.91   | 37.52     | 4747    | 2.83      | 50.15     | 17568     | 7874      | 3255      | 9694 | 6439 | 55.18    | 66.42  | 36.65     | 19915   | 3.09  | 50.92 |
| DRILL                      |           |                     |          |                     |           |           |           |      |      |          |         |           |         |           |           |           |           |           |      |      |          |        |           |         |       |       |
| DM-10                      | 15518     | IR-ROTACOL-IDM-30   | 160mm    | Feb- 04             | 496       | 87        | 304       | 409  | 105  | 82.46    | 25.67   | 21.17     | 1780    | 16.95     | 36.62     | 1952      | 749       | 829       | 1203 | 374  | 61.63    | 31.09  | 19.16     | 4098    | 10.96 | 42.10 |
| DM-12A                     | 7983      | AC-ROTACOL-IDM-30   | 160mm    | Sep-08              | 496       | 115       | 184       | 381  | 197  | 76.81    | 51.71   | 39.72     | 2850    | 14.47     | 37.94     | 1952      | 586       | 695       | 1366 | 671  | 69.98    | 49.12  | 34.38     | 5991    | 8.93  | 34.96 |
| DM-14                      | 13582     | AC-ROTACOL-IDM-30   | 160 mm   | 12-Sep-09           | 496       | 496       |           |      |      |          | #DIV/0! |           |         |           |           | 1952      | 1968      | -16       | -16  |      | -0.82    |        |           |         |       |       |
| DM-15                      | 5727      | AC-ROTACOL-IDM-30   | 160 mm   | 8-Dec-14            | 496       | 387       | 66        | 109  | 43   | 21.98    | 39.45   | 8.67      | 900     | 20.93     | 36.51     | 1952      | 740       | 646       | 1212 | 566  | 62.09    | 46.70  | 29.00     | 8707    | 15.38 | 40.36 |
| 4                          |           |                     |          | TOTAL               | 1984      | 1085      | 554       | 899  | 345  | 45.31    | 38.38   | 17.39     | 5530    | 16.03     | 37.36     | 7808      | 4043      | 2154      | 3765 | 1611 | 48.22    | 42.79  | 20.63     | 18796   | 11.67 | 38.87 |
| DOZER                      |           |                     |          |                     |           |           |           |      |      |          |         |           |         |           |           |           |           |           |      |      |          |        |           |         |       |       |
| DOZ-21                     | 16977     | BEML D-355          | 410 HP   | May- 03             | 496       | 392       | 37        | 104  | 67   | 20.97    | 64.42   | 13.51     |         |           | 32.18     | 1952      | 1132      | 146       | 820  | 675  | 42.01    | 82.26  | 34.55     |         |       | 26.71 |
| DOZ-22                     | 16083     | BEML D-355          | 410 HP   | Feb-04              | 496       | 496       |           |      |      |          | #DIV/0! |           |         |           |           | 1952      | 1968      | -16       | -16  |      | -0.82    |        |           |         |       |       |
| DOZ-23                     | 14176     | BEML D-355          | 410 HP   | May-08              | 496       | 332       | 103       | 164  | 61   | 33.06    | 37.20   | 12.30     |         |           | 25.82     | 1952      | 1028      | 673       | 924  | 251  | 47.34    | 27.16  | 12.86     |         |       | 22.69 |
| DOZ-24                     | 10992     | BEML D-355          | 410 HP   | Sep-08              | 496       | 147       | 17        | 349  | 332  | 70.36    | 95.13   | 66.94     |         |           | 41.76     | 1952      | 538       | 198       | 1414 | 1216 | 72.44    | 86.00  | 62.30     |         |       | 35.04 |
| DOZ-25                     | 8452      | BEML D-355          | 410 HP   | 25-Apr-14           | 496       | 475       | 14        | 21   | 7    | 4.23     | 33.33   | 1.41      |         |           | 46.43     | 1952      | 1663      | 40        | 289  | 250  | 14.81    | 86.33  | 12.78     |         |       | 26.81 |
| DOZ-26                     | 6675      | BEML D-355          | 410 HP   | 08-Sept-17          | 496       | 94        | 137       | 402  | 265  | 81.05    | 65.92   | 53.43     |         |           | 38.85     | 1952      | 346       | 262       | 1606 | 1344 | 82.27    | 83.69  | 68.85     |         |       | 31.63 |
| 6                          |           |                     |          | TOTAL               | 2976      | 1936      | 308       | 1040 | 732  | 34.95    | 70.38   | 24.60     |         |           | 38.55     | 12208     | 7171      | 1302      | 5037 | 3735 | 41.26    | 74.15  | 30.59     |         |       | 30.93 |
| PAY LOADER                 |           |                     |          |                     |           |           |           |      |      |          |         |           |         |           |           |           |           |           |      |      |          |        |           |         |       |       |
| PL-7                       | 10980     | L&T KOMAT. WA-470-3 | 260 HP   | 21-Jan-09           | 744       | 182       | 303       | 562  | 259  | 75.54    | 46.09   | 34.81     |         |           | 17.88     | 2928      | 1073      | 568       | 1855 | 1287 | 63.35    | 69.38  | 43.95     | 9       | 0.01  | 10.86 |
| PL-8                       | 4769      | Hyundai-hi770-7A    | 280 HP   | 01-Jun-10           | 744       | 744       |           |      |      |          | #DIV/0! |           |         |           |           | 2928      | 2952      | -24       | -24  |      | -0.82    |        |           |         |       |       |
|                            |           |                     |          | TOTAL               | 1488      | 926       | 303       | 562  | 259  | 37.77    | 46.09   | 17.41     |         |           | 17.88     | 6576      | 4745      | 544       | 1831 | 1287 | 27.84    | 70.29  | 19.57     | 9       | 0.01  | 13.78 |

**EQUIPMENT AVAILABILITY & UTILISATION**  
Jul-18

|                 |                | UNIT IN % |    |          |    |     |    |               |    |     |    |        |    |     |    |        |    |     |    |     |    |     |    |
|-----------------|----------------|-----------|----|----------|----|-----|----|---------------|----|-----|----|--------|----|-----|----|--------|----|-----|----|-----|----|-----|----|
|                 |                | NORM      |    | KIRIBURU |    |     |    | MEGHAHATUBURU |    |     |    | BOLANI |    |     |    | BARSUA |    |     |    | GUA |    |     |    |
|                 |                |           |    | MTH      |    | CUM |    | MTH           |    | CUM |    | MTH    |    | CUM |    | MTH    |    | CUM |    | MTH |    | CUM |    |
| EQPMT TYPE      |                | AV        | UT | AV       | UT | AV  | UT | AV            | UT | AV  | UT | AV     | UT | AV  | UT | AV     | UT | AV  | UT | AV  | UT | AV  | UT |
|                 |                |           |    |          |    |     |    |               |    |     |    |        |    |     |    |        |    |     |    |     |    |     |    |
| DRILL           | 150 mm         | 70        | 70 | 88       | 41 | 60  | 47 | 38            | 78 | 54  | 71 | 91     | 55 | 75  | 37 | 67     | 14 | 80  | 10 | 45  | 38 | 48  | 42 |
|                 |                |           |    |          |    |     |    |               |    |     |    |        |    |     |    |        |    |     |    |     |    |     |    |
| SHOVEL          | HYD(D) <4.6 m3 | 70        | 75 |          |    |     |    | 47            | 32 | 20  | 24 | 82     | 9  | 80  | 12 | 78     | 22 | 72  | 21 |     |    |     |    |
|                 | HYD(D) >4.6 m3 | 85        | 80 | 98       | 48 | 97  | 50 | 55            | 66 | 67  | 62 | 67     | 41 | 68  | 38 | 83     | 25 | 87  | 18 | 65  | 45 | 57  | 53 |
|                 | HYD(E)         | 70        | 70 |          |    |     |    |               |    |     |    |        |    |     |    |        |    |     |    |     |    |     |    |
| DUMPER          | 85/ 60 tn      | 65        | 75 |          |    |     |    |               |    |     |    |        |    |     |    | 88     | 73 | 89  | 57 |     |    |     |    |
|                 | 50 tn          | 70        | 80 |          |    | 3   | 22 | 43            | 8  | 33  | 19 | 31     | 4  | 35  | 11 | 57     | 24 | 69  | 21 | 22  |    | 36  | 1  |
|                 | 100 tn         | 85        | 80 | 73       | 40 | 73  | 40 | 54            | 51 | 58  | 52 | 64     | 34 | 68  | 32 | 94     | 3  | 92  | 3  | 62  | 61 | 57  | 65 |
| DOZER           |                | 70        | 70 | 38       | 19 | 39  | 25 | 39            | 40 | 52  | 47 | 74     | 28 | 66  | 32 | 97     | 12 | 95  | 13 | 35  | 70 | 46  | 68 |
| CRUSHING PLANT  |                | 85        | 85 |          |    |     |    | 89            | 66 | 95  | 53 | 80     | 51 | 79  | 53 |        |    |     |    |     |    |     |    |
| SCREENING PLANT |                | 85        | 85 |          |    |     |    | 85            | 76 | 88  | 56 | 94     | 59 | 92  | 58 |        |    |     |    |     |    |     |    |
| OHP             |                | 85        | 85 | 94       | 68 | 93  | 70 |               |    |     |    |        |    |     |    | 84     | 51 | 77  | 66 | 95  | 83 | 95  | 85 |

### Consumption of Key Consumables in 2018-19(Kiriburu)

| Item           | HSD           |               |               | EXPL          | POWER          | LUBRICANT    |                |              |               |               |             |             |             |              |
|----------------|---------------|---------------|---------------|---------------|----------------|--------------|----------------|--------------|---------------|---------------|-------------|-------------|-------------|--------------|
| Unit           | Litre         |               |               | kg            | KWH            | Litre/Kg     | DEPTT ROM      | CONT ROM     | DEPTT OB      | CONT OB       | EXPL        | Ltr/Te      | POWER       | LUB          |
| NORM           | MINES         | DGSET         | TOTAL         |               |                |              |                |              |               |               | 0.12        | 0.45        | 4.2         | 25           |
| 2011-12        | 2232461       | 723255        | 2955716       | 733395        | 28638468       | 158510       | 3848850        | 0            | 1410525       | 633037.6      | 0.12        | 0.55        | 5.45        | 29.26        |
| 2012-13        | 2304757       | 777352        | 3082109       | 619868        | 29233456       | 115903       | 3958695        | 0            | 1481400       | 187362        | 0.11        | 0.56        | 5.37        | 21.12        |
| 2013-14        | 2028772       | 794925        | 2823697       | 502158        | 31070636       | 126608       | 3443634        | 24977        | 1334250       | 0             | 0.10        | 0.59        | 6.47        | 26.36        |
| 2014-15        | 2045312       | 860700        | 2906012       | 733330        | 31989330       | 110440       | 3893355        | 354285       | 1135350       | 638246        | 0.13        | 0.52        | 5.94        | 19.93        |
| 2015-16        | 2021760       | 758860        | 2780620       | 585470        | 31933017       | 107099       | 3648780        | 178245       | 2088990       | 201910        | 0.10        | 0.47        | 5.40        | 17.95        |
| 2016-17        | 2177112       | 702490        | 2879602       | 573840        | 31702875       | 101640       | 3891780        | 242370       | 2663910       | 0             | 0.08        | 0.44        | 4.66        | 15.36        |
| 2017-18        | 2109898       | 573577        | 2683475       | 515422        | 30594993       | 92150        | 3979790        | 215830       | 1568970       | 863256        | 0.08        | 0.46        | 5.31        | 15.84        |
| <b>2018-19</b> | <b>675229</b> | <b>183616</b> | <b>858845</b> | <b>146514</b> | <b>9041728</b> | <b>21320</b> | <b>1216230</b> | <b>84000</b> | <b>336240</b> | <b>125644</b> | <b>0.08</b> | <b>0.54</b> | <b>5.53</b> | <b>13.28</b> |
| April'18       | 166292        | 48694         | 214986        | 53245         | 2164676        | 4200         | 248830         | 29000        | 126720        | 10000         | 0.13        | 0.56        | 5.35        | 10.90        |
| May'18         | 180275        | 54357         | 234632        | 29757         | 2117508        | 6510         | 339490         | 26000        | 99270         | 0             | 0.06        | 0.53        | 4.56        | 14.62        |
| June'18        | 166497        | 30570         | 197067        | 42892         | 2311396        | 6510         | 317680         | 29000        | 76500         | 115644        | 0.08        | 0.46        | 5.46        | 15.13        |
| July'18        | 162165        | 49995         | 212160        | 20620         | 2448148        | 4100         | 310230         | 0            | 33750         | 0             | 0.06        | 0.62        | 7.12        | 11.92        |

### Consumption of Key Consumables in 2018-19(Meghahatuburu)

| Item            | HSD           |              |               | EXPL          | POWER          | LUBRICANT    |                |              |               |               |             |             |             |              |
|-----------------|---------------|--------------|---------------|---------------|----------------|--------------|----------------|--------------|---------------|---------------|-------------|-------------|-------------|--------------|
| Unit            | Litre         |              |               | kg            | KWH            | Litre/Kg     | DEPTT ROM      | CONT ROM     | DEPTT OB      | CONT OB       | EXPL        | Ltr/Te      | POWER       | LUB          |
| <b>NORM</b>     | <b>MINES</b>  | <b>DGSET</b> | <b>TOTAL</b>  |               |                |              |                |              |               |               | <b>0.13</b> | <b>0.45</b> | <b>4.15</b> | <b>25</b>    |
| 2011-12         | 2362533       | 225172       | 2587705       | 553591        | 21142080       | 141234       | 4286700        |              | 1554480       | 325440        | 0.09        | 0.44        | 3.62        | 23.85        |
| 2012-13         | 2503447       | 298360       | 2801807       | 464676        | 20066760       | 123987       | 4225320        |              | 2166885       | 30114         | 0.07        | 0.44        | 3.14        | 19.37        |
| 2013-14         | 2324310       | 162200       | 2486510       | 392696        | 20328120       | 129431       | 4426065        |              | 1807800       | 780350        | 0.06        | 0.39        | 3.26        | 20.38        |
| 2014-15         | 2220183       | 193500       | 2413683       | 319470        | 18089880       | 126073       | 3673080        | 0            | 1305800       | 155000        | 0.06        | 0.44        | 3.63        | 23.61        |
| 2015-16         | 2225132       | 166400       | 2391532       | 519270        | 19481640       | 115697       | 3737160        | 0            | 1716350       | 896600        | 0.08        | 0.43        | 3.57        | 20.70        |
| 2016-17         | 2572886       | 44085        | 2616971       | 515440        | 17964960       | 126531       | 3711060        | 162000       | 2828750       | 234000        | 0.07        | 0.39        | 2.68        | 19.06        |
| 2017-18         | 2625542       | 51700        | 2677242       | 653081        | 18582360       | 119195       | 3784340        | 183000       | 2938950       | 1026000       | 0.08        | 0.38        | 2.69        | 16.97        |
| <b>2018-19</b>  | <b>845696</b> | <b>26900</b> | <b>872596</b> | <b>212749</b> | <b>5539800</b> | <b>37198</b> | <b>1125860</b> | <b>49000</b> | <b>966600</b> | <b>185000</b> | <b>0.09</b> | <b>0.41</b> | <b>2.59</b> | <b>17.29</b> |
| <b>April'18</b> | 220289        | 6030         | 226319        | 53177         | 1228440        | 9646         | 279290         | 20500        | 230200        | 50000         | 0.09        | 0.43        | 2.32        | 18.30        |
| <b>May'18</b>   | 224655        | 10060        | 234715        | 61594         | 1199640        | 9660         | 288590         | 8500         | 303700        | 60000         | 0.09        | 0.39        | 2.00        | 15.85        |
| <b>June'18</b>  | 211828        | 4230         | 216058        | 47428         | 1209960        | 11410        | 247170         | 15000        | 288600        | 45000         | 0.08        | 0.39        | 2.20        | 20.72        |
| <b>July'18</b>  | 188924        | 6580         | 195504        | 50550         | 1901760        | 6482         | 310810         | 5000         | 144100        | 30000         | 0.10        | 0.42        | 4.14        | 13.98        |

### Consumption of Key Consumables in 2017-18(Bolani)

| Item            | HSD           | Expl          | Power          | Lubricant    |                |                    |               |               |               |             |             |             |              |
|-----------------|---------------|---------------|----------------|--------------|----------------|--------------------|---------------|---------------|---------------|-------------|-------------|-------------|--------------|
| Unit            | Litre         | kg            | KWH            | Litre/Kg     | DEPTT ROM      | F/G AREA CONTR SCR | CONT ROM      | DEPTT OB      | CONT OB       | EXPL        | HSD         | POWER       | LUB          |
| NORM            |               |               |                |              |                |                    |               |               |               | 0.11        | 0.43        | 4.8         | 25           |
| 2010-11         | 2026625       | 479122        | 23080560       | 118412       | 3347818        |                    | 573189        | 785490        | 196165        | 0.10        | 0.48        | 4.90        | 27.87        |
| 2011-12         | 1998636       | 534534        | 21235920       | 100300       | 3060290        |                    | 684985        | 796330        | 164403        | 0.11        | 0.50        | 4.68        | 25.18        |
| 2012-13         | 1783555       | 514007        | 19644960       | 91014        | 2605030        |                    | 470897        | 838270        | 506624        | 0.12        | 0.50        | 5.02        | 25.35        |
| 2013-14         | 1872289       | 635069        | 20288400       | 103250       | 2888400        |                    | 952901        | 1049150       | 667212        | 0.11        | 0.45        | 4.15        | 24.70        |
| 2014-15         | 2149181       | 810530        | 21124800       | 109435       | 3516659        | 200000             | 677254        | 738201        | 1792737       | 0.12        | 0.44        | 4.28        | 22.23        |
| 2015-16         | 2259467       | 913430        | 21800400       | 106130       | 3598770        | 0                  | 1735825       | 1382700       | 1085889       | 0.12        | 0.40        | 3.25        | 18.66        |
| 2016-17         | 2538285       | 618000        | 22677280       | 116550       | 4014310        | 0                  | 1667532       | 1534785       | 920488        | 0.08        | 0.41        | 3.14        | 18.81        |
| 2017-18         | 2514011       | 935809        | 20339200       | 125936       | 3712455        | 0                  | 1543746       | 1417555       | 1853008       | 0.11        | 0.42        | 3.05        | 21.06        |
| <b>2018-19</b>  | <b>837828</b> | <b>295506</b> | <b>6501360</b> | <b>37450</b> | <b>1142400</b> | <b>0</b>           | <b>568648</b> | <b>506730</b> | <b>483847</b> | <b>0.11</b> | <b>0.44</b> | <b>2.93</b> | <b>19.58</b> |
| <b>April'18</b> | 204486        | 59590         | 1433760        | 7602         | 147900         | 0                  | 160209        | 251000        | 134324        | 0.09        | 0.43        | 2.56        | 16.09        |
| <b>May'18</b>   | 213263        | 86655         | 1668960        | 11900        | 312300         | 0                  | 156063        | 115950        | 112869        | 0.12        | 0.43        | 2.86        | 24.02        |
| <b>June'18</b>  | 206532        | 74839         | 1671120        | 8330         | 341300         | 0                  | 143708        | 71850         | 148274        | 0.11        | 0.42        | 3.00        | 17.13        |
| <b>July'18</b>  | 213547        | 74422         | 1727520        | 9618         | 340900         | 0                  | 108668        | 67930         | 88380         | 0.12        | 0.47        | 3.34        | 21.00        |



### Consumption of Key Consumables in 2018-19(Barsua-Taldih)

| Item            | HSD           |          |               | Expl         | Power          | Lubricant   |               |               |              |          |              |             |             |             |              |
|-----------------|---------------|----------|---------------|--------------|----------------|-------------|---------------|---------------|--------------|----------|--------------|-------------|-------------|-------------|--------------|
| Unit            | Litre         |          |               | kg           | KWH            | Litre/Kg    | DEPTT ROM     | CONT ROM      | DEPTT OB     | CONT OB  | TALDIH OB    | EXPL        | HSD         | POWER       | LUB          |
| NORM            | MINES         | DGSET    | TOTAL         |              |                |             | BARSUA        | TALDIH        | BARSUA       |          |              | 0.08        | 0.46        | 4.90        | 25.00        |
| 2011-12         | 1753745       |          |               | 233475       | 16215900       | 78287       | 1979803       |               | 1340775      | 859275.2 |              | 0.06        | 0.50        | 4.88        | 22.14        |
| 2012-13         | 1879641       | 30150    | 1909791       | 254675       | 14962260       | 99939       | 2281296       |               | 1350990      | 175261.7 |              | 0.07        | 0.52        | 4.12        | 27.19        |
| 2013-14         | 1592619       | 74350    | 1666969       | 253695       | 18204460       | 101571      | 1905428       |               | 1257525      | 652709   |              | 0.07        | 0.51        | 5.76        | 31.15        |
| 2014-15         | 1351019       | 18140    | 1369159       | 230450       | 17518920       | 62960       | 269920        |               | 2635065      | 350000   |              | 0.07        | 0.46        | 6.03        | 21.29        |
| 2015-16         | 1230145       | 6660     | 1236805       | 265250       | 15780840       | 47362       | 0             | 0             | 2384140      | 0        |              | 0.11        | 0.52        | 6.62        | 19.87        |
| 2016-17         | 934836        | 0        | 934836        | 188625       | 15520680       | 46730       | 0             | 173700        | 1804950      | 0        | 294165       | 0.10        | 0.45        | 7.84        | 22.26        |
| 2017-18         | 386285        | 0        | 386285        | 95062        | 13554044       | 11893       | 0             | 1052111       | 85675        | 0        | 206145       | 0.07        | 1.32        | 11.91       | 40.75        |
| <b>2018-19</b>  | <b>319077</b> | <b>0</b> | <b>319077</b> | <b>38493</b> | <b>3763748</b> | <b>6601</b> | <b>411199</b> | <b>338267</b> | <b>55155</b> | <b>0</b> | <b>65340</b> | <b>0.04</b> | <b>0.60</b> | <b>8.07</b> | <b>12.42</b> |
| <b>April'18</b> | 26265         | 0        | 26265         | 4950         | 1113077        | 341         | 0             | 98306         | 2365         | 0        | 23490        | 0.04        | 0.52        | 470.65      | 13.19        |
| <b>May'18</b>   | 82015         | 0        | 82015         | 6750         | 1071437        | 1976        | 88915         | 89676         | 20490        | 0        | 21960        | 0.03        | 0.53        | 9.79        | 15.04        |
| <b>June'18</b>  | 103602        | 0        | 103602        | 13276        | 716077         | 2271        | 181049        | 79030         | 16510        | 0        | 15660        | 0.05        | 0.44        | 3.62        | 10.65        |
| <b>July'18</b>  | 107195        | 0        | 107195        | 13517        | 863157         | 2013        | 141235        | 71255         | 15790        | 0        | 4230         | 0.06        | 0.60        | 5.50        | 12.48        |

### Consumption of Key Consumables in 2017-18(Gua)

| Item            | HSD            |          |                | Expl          | Power          | Lubricant    |                |          |               |          |             |             |             |              |
|-----------------|----------------|----------|----------------|---------------|----------------|--------------|----------------|----------|---------------|----------|-------------|-------------|-------------|--------------|
| Unit            | Litre          |          |                | kg            | KWH            | Litre/Kg     | DEPTT ROM      | CONT ROM | DEPTT OB      | CONT OB  | EXPL        | HSD         | POWER       | LUB          |
| NORM            | MINES          | DGSET    | TOTAL          |               |                |              |                |          |               |          | 0.09        | 0.55        | 4.6         | 25           |
| 2010-11         | 1813564        | 2030     | 1815594        | 367795        | 17584344       | 100224       | 2378504        | 0        | 674441        | 1325210  | 0.08        | 0.54        | 5.76        | 29.61        |
| 2011-12         | 1026199        | 12194    | 1038393        | 121305        | 16608240       | 50419        | 543562         | 0        | 236868        | 225000   | 0.12        | 1.24        | 21.28       | 60.26        |
| 2012-13         | 530895         | 31972    | 562867         | 0             | 15732024       | 22133        | 0              | 0        | 0             | 0        | #DIV/0!     | #DIV/0!     | #DIV/0!     | #DIV/0!      |
| 2013-14         | 2677615        | 20143    | 2697758        | 423955        | 17447568       | 104254       | 3764538        | 0        | 1344785       | 0        | 0.08        | 0.53        | 3.41        | 20.40        |
| 2014-15         | 2085242        | 22389    | 2107631        | 277410        | 16677691       | 70037        | 2479410        | 0        | 752085        | 0        | 0.09        | 0.65        | 5.16        | 21.67        |
| 2015-16         | 2632296        | 18880    | 2651176        | 413320        | 18358728       | 92732        | 3565810        | 284938   | 1540315       | 198718   | 0.08        | 0.51        | 3.60        | 17.91        |
| 2016-17         | 2933129        | 2804     | 2935933        | 438030        | 18480528       | 106696       | 3774559        | 239976   | 1554059       | 0        | 0.08        | 0.54        | 3.32        | 19.80        |
| 2017-18         | 3087765        | 2220     | 3089985        | 388490        | 18466944       | 105288       | 4002700        | 0        | 1573793       | 0        | 0.07        | 0.55        | 3.31        | 18.88        |
| <b>2018-19</b>  | <b>1065278</b> | <b>0</b> | <b>1065278</b> | <b>147554</b> | <b>5198880</b> | <b>39218</b> | <b>1330060</b> | <b>0</b> | <b>471440</b> | <b>0</b> | <b>0.08</b> | <b>0.59</b> | <b>2.89</b> | <b>21.77</b> |
| <b>April'18</b> | 276728         | 0        | 276728         | 31287         | 1431744        | 8862         | 341000         | 0        | 127530        | 0        | 0.07        | 0.59        | 3.06        | 18.91        |
| <b>May'18</b>   | 270150         | 0        | 270150         | 50813         | 1615872        | 10430        | 341100         | 0        | 158150        | 0        | 0.10        | 0.54        | 3.24        | 20.89        |
| <b>June'18</b>  | 258325         | 0        | 258325         | 32679         | 1440624        | 12744        | 325310         | 0        | 81180         | 0        | 0.08        | 0.64        | 3.54        | 31.35        |
| <b>July'18</b>  | 260075         | 0        | 260075         | 32775         | 710640         | 7182         | 322650         | 0        | 104580        | 0        | 0.08        | 0.61        | 1.66        | 16.81        |

| STATUS OF LEASE, ENVIRONMENT & FOREST OF RMD MINES, SAIL |            |            |               |                    |   |  |
|--|------------|------------|---------------|--------------------|---|--|
| MINE   | GRANTED ON | VALID UPTO | AREA (in ha.) | RENEWAL APPL.DATE  | FOREST CLEARANCE (FC)   | ENVIRONMENTAL CLEARANCE (EC)   |
| Status as on March' 2018                                 |            |            |               |                    |   |  |
| KBR-MBR  |            |            |               |                    |   |  |
| Lease-I  | 28.03.60   | 31.03.20   | 1936.06       | 17.02.09           | Stage II FC [644.26 Ha] granted by MoEF&CC vide letter dated 26.11.2014. Stage-I FC of South & Central Block (247.5 Ha) was granted by MoEFCC on 18.10.2010. Compliance report has been submitted well within the time & State Govt. forward the proposal to MoEFCC on 13.07.2015. Further, compliance of the queires were forwarded by State Govt. to MoEFCC on 05.04.2016. After approval of MPSM on 08.06.18, MoEFCC vide letter dated 26.06.2018 requested GoJ to provide some informations. The desired informations were submitted to DFO on 19.07.2018/31.07.2018. | EC granted by MoEFCC for 10 MTPA capacity on 27.12.2006. EC granted by MoEFCC for 16 MTPA capacity on 23.09.2014. CTO for 16 MTPA capacity was granted by JSPCB & renewed upto 31.12.2019.   |
| Lease - II   | 06.02.73   | 31.03.20   | 879.439       | 10.01.02           | Forestry clearance for the total broken area of 55.9 Ha was granted on 11.04.2005.  | Ore Beneficiation Plant & loading facilities of Meghahatuburu Iron Ore Mine are located in the lease-II.   |
| Lease - III  | 01.10.73   | 31.03.20   | 82            | 26.09.02           | Forestry clearance for the total broken area of 24.23 Ha was granted on 11.04.2005.   | Tailing Pond of Kiriburu Iron Ore Mine is located in the lease-III.  |
| Horomotto  | 01.01.70   | 31.12.99   | 1051.98       | -                  | SAIL has filed Revision application with mining tribunal against State Govt.'s order of lapsing of lease and rejection of lease renewal application.  | No EC  |
| BOLANI   |            |            |               |                    |   |  |
| 5.1 sq. mile lease                                       | 11.04.60   | 09.04.30   | 1321.45       | 26.03.09           | Stage-II FC granted by MoEF&CC on 11.12.2012, 09.07.2013 & 12.11.2014. Stage-I FC for additional 87.09 ha sabik FL was obtained on 12.09.2017. Final Compliance report submitted to DFO, Keonjhar on 22.12.2017. Additional information submitted to DFO, Keonjhar on 10.05.2018. DFO forwarded the compliance report to RCCF on 20.06.2018. Further RCCF forwarded to Addl. PCCF (NO) on 16.07.2018.   | EC granted for production of Iron Ore 12 MTPA ROM and Installation of 12 MTPA New Beneficiation Plant & 4 MTPA Pellet Plant on 21.12.2012. Consent to Operate for 12 MTPA capacity has been renewed & Valid upto 31.03.2019.   |
| 6.9 sq. mile lease                                       | 14.11.62   | 13.11.82   | 1586.36       | 26.03.02 (2nd RML) | MoEFC&CC vide letter dated 24.07.17 issued amended Stage-I FC order. For this proposal FRA certificate issued, double degraded FL identified for CA, PCA land identified & other compliance is under progress. In addition to that, Stage-I FC for 124.313 ha Sabik FL was obtained on 12.09.2017. Compliance report submitted to DFO on 22.12.2017 and forwarded to Addl. PCCF (NO) on 02.06.2018. Due to revision in wage rate, the revised compliance report submitted to DFO on 25.07.2018.   | Granted EC on 21.12.12 for production of 15000 TPA Manganese Ore. CTO for handling of 10 MTPA Iron ore lumps & fines and 15000 TPA Mn ore granted by OSPCB & further renewed on 29.03.2018 with validity upto 31.03.2019.  |
| BARSUA-KALTA   |            |            |               |                    |   |  |
| ML No.-130   | 06.01.60   | 05.01.30   | 2486.383      | NA                 | Stage-II FC granted by MoEF&CC on 06.03.2013. DFO, Bonai vide letter dated 27.02.18 allowed to take up mining operation over 28.90 ha of forest land under Taldih Block-C.  | EC granted by MoEFCC vide letter dated 29th Oct'10. Amended EC for ML-130 lease was granted on 30.03.2016 for redistribution of production from Barsua to 3.5 Mt/yr and Kalta to 2.5 Mt/yr and Taldih to 2.05 Mt/yr. Consent to Operate renewed with validity upto 31.03.2019. CTO of Barua Railway siding has been granted on 29.03.2018 with validity upto 31.03.2020.                   |
| ML No.-162   | 29.04.60   | 28.04.30   | 77.94         | 21.04.99           | Stage-II FC granted on 23.10.17 for diversion of 77.94 ha of forest land.   | Ore Beneficiation Plant, Jigging Plant, Conveyors, part of the Tailing Pond located under this lease.  |
| ML No.-139   | 17.01.75   | 16.01.25   | 25.981        | 04.01.14           | Online Diversion Proposal including safety zone submitted on 22.07.15. On scrutiny of online diversion proposal, DFO noticed some deficiencies and raised query on 26.05.16. Compliance of the query is under process.  | For obtaining EC, ToR application submitted to MoEFCC, New Delhi on 18.01.2018. EAC meeting held on 22.03.2018 for grant of ToR for conducting EIA study. MoEFCC vide email alert dated 4.4.18 has sought some additional details. Additional details submitted to MoEFCC on 25.05.2018. Subsequently, another additional details were sought by MoEFCC which was submitted on 06.07.2018. |
| ML No.-227   | 18.01.84   | 17.01.04   | 3.34          | 04.01.03           | Preparation of Diversion Proposal is under progress   | Non-working lease. Obtaining EC is under progress.   |

| STATUS OF LEASE, ENVIRONMENT & FOREST OF RMD MINES, SAIL |            |            |               |                    |   |  |
|--|------------|------------|---------------|--------------------|---|--|
|  |            |            |               |                    |   | Status as on March' 2018   |
| MINE   | GRANTED ON | VALID UPTO | AREA (in ha.) | RENEWAL APPL.DATE  | FORESTRY CLEARANCE (FC)   | ENVIRON. CLEARANCE (EC)  |
| BHAWANATHPUR   |            |            |               |                    |   |  |
| GORGAON  | 23.10.72   | 31.03.20   | 228.46        | 18.10.11 (2nd RML) | Surrender of Bhawanathpur leases i.e Gorgaon, Ghagra & Saraiya leases has been approved by SAIL-Board on 30.05.2017. Final Mine Closure Plan has been prepared by M/s MECON and submitted to IBM, Ranchi on 29.03.2018 for approval. IBM vide letter dated 19.07.2018 pointed out some observations. Compliance of the observations are under progress. |  |
| GHAGHRA  | 23.10.72   | 31.03.20   | 675.678       | 18.10.11 (2nd RML) |   |  |
| SARAIYA  | 31.03.66   | 31.03.20   | 275           | 01.03.07 (3rd RML) |   |  |
| PUKNAPANI  | 06.01.80   | 31.03.20   | 230.525       | 30.12.98           | No forest land involved   | Non-working lease. No EC   |
| GHATITANGAR  | 29.04.80   | 28.04.00   | 153.51        | 16.04.99           | Matter of lease is under litigation.  | Non-working lease. No EC   |
| KUTESHWAR  |            |            |               |                    |   |  |
| LEFT BANK LEASE  | 15.05.82   | 14.05.22   | 91.14         | NA                 | No forest land.   | EC granted by MoEFCC vide letter no. J-11015/450/2012-IA.II(M) dated 17.08.2015.CTE application for 0.06 MTPA production submitted on 06.01.2016. CTE for 0.06 MTPA production granted on 10.04.2016. Renewal of CTO was extended by Madhya Pradesh Pollution Control Board & upto 31.07.2018. |
| RIGHT BANK LEASE   | 10.06.71   | 09.06.21   | 944.89        | NA                 | No forest land.   | EC granted by MoEFCC vide letter no. J-11015/449/2012-IA.II(M) dated 02.09.2015.CTE granted on 31.12.2015 for 2.32 MTPA expansion. CTO for 2.32 MTPA expansion granted by MPPCB on 23.02.2016 with validity upto 31.01.17. CTO renewed by MPPCB for the period upto 31.01.2020.                |
| TULSIDAMAR   | 30.10.69   | 31.03.20   | 118.72        | 20.10.08 (2nd RML) | Stage-II FC for 101.32 ha under the lease was granted on 18.12.1997.  | EC was granted on 24.03.1995 as per EIA notification 1994. CTO for 25000 TPM (Dolomite) capacity has been renewed by JSPCB on 28.03.17 for the period upto 31.03.2020. CTO for Rly Siding for 25,000 TPA Dolomite and 60,000 TPA Limestone renewed by JSPCB upto 30.06.2020.                   |

| STATUS OF LEASE, ENVIRONMENT & FOREST OF RMD MINES, SAIL |               |               |                 |                       |   |   |
|--|---------------|---------------|-----------------|-----------------------|---|---|
| MINE   | GRANTED<br>ON | VALID<br>UPTO | AREA<br>(in ha) | RENEWAL<br>APPL. DATE | Status as on March' 2018  |   |
|  |               |               |                 |                       | FORESTRY CLEARANCE (FC)   | ENVIRONMENT CLEARANCE (EC)  |
| <b>GUA</b>   |               |               |                 |                       |   |   |
| Durgaiburu   | 22.02.49      | 21.02.79      | 1443.756        | 08.02.08<br>(2nd RML) | Stage-II FC for existing broken area of 274.691 ha has been granted by MoEF on 22.08.2014. Stage-I FC granted for 361.295 ha on 04.03.2014 in addition to 274.691 ha. Stage- I compliance report was submitted to DFO 02.06.2015. State Govt. vide letter dated 30.07.2015/23.09.2015 forwarded the proposal to MoEFCC, New Delhi for grant of Stage-II FC. After approval of MPSM on 08.06.18, MoEFCC vide letter dated 03.07.2018 requested GoJ to provide some informations. The desired informations were submitted to DFO on 19.07.2018. | EC granted by MoEF on 25.03.2013. CTO for 12.5 MTPA renewed by JSPCB on 26.12.2016 for the period 01.01.2017 to 31.12.2020.   |
| Jhilingburu - I  | 12.05.50      | 11.05.80      | 210.526         | 25.04.09<br>(2nd RML) | Stage-I FC for 210.526 ha forest land was granted vide MoEF&CC order dated 25.09.2017. Compliance related to CA land indentification is under progress.   | ToR for conducting EIA study for production of 61,362 TPA Manganese Ore was granted by MoEF &CC on 04.03.2015. Final EIA/EMP report was submitted online on 04.01.2017 for EAC meeting & grant of EC. MoEFCC vide letter dtd 03.04.17 informed that EC proposal will be considered after approval of Carrying Capacity study. MoEF&CC on 13.11.17sought additional details and directed to apply online as per notification dated 14.03.17. The reply of the ADS was submitted & as per the provisions of notification dated 14.03.17, the ToR proposal was submitted online on 02.12.17. Again vide notification dated 16.03.2018, MoEFCC directed for re-submission of the ToR proposal. Proposal was re-submitted to MoEFCC online on 4.4.18 for issue of TOR and requested to consider the proposal as a special case as Public hearing already held and final EIA submitted. |
| Jhilingburu - II   | 12.05.50      | 31.03.20      | 30.43           | 05.05.09<br>(2nd RML) | Stage-I FC for 30.43 ha of forest land was granted on 29.01.2013. Stage-I FC Compliance Report submitted to DFO, Chaibasa on 20.05.2016 and was forwarded to RO, MoEFCC, Ranchi for grant of Stage-II FC. The query raised by MoEFCC, Ranchi pertaining to CA levies information/record was submitted by Dy. Secy. (F,E&CC Dept.), GoJ to DCF (Central), MoEFCC, Ranchi on 16.01.2018 for further necessary action. The proposal is pending with Regional Office, MoEFCC.   | TOR for conducting EIA Study for production of 20,820 TPA Mn ore was granted by MoEF on 23.07.2012. Public Hearing was conducted on 31.01.2014 at Gua. Final EIA/EMP report was submitted to MoEFCC on 12.07.16 for grant of EC. The proposal was transferred to SEIAA, Ranchi by MoEFCC on 04.08.2017 as Category-B project. SEAC Meeting for grantof EC has been held at Ranchi on 22.02.2018. Information related to Project desired by SEAC on 09.03.2018 was submitted online on 19.05.2018. SEAC considered the EC proposal on 01.06.2018 and desired some information before recommendation of EC. The compliance of the desired information is under progress.  |
| Topailore  | 09.03.70      | 31.03.20      | 14.15           | 04.03.99              | Stage-I FC for 14.15 ha of forest land was granted by MoEF on 30.08.13. Stage-I FC compliance submitted to DFO, Saranda on 05.03.2016 and was forwarded to RO, MoEFCC, Ranchi on 03.11.16 for grant of Stage-II FC.   | EC granted by SEIAA vide letter no. EC/SEIAA/2015-16/2015/1291 dated 17.08.2015.  |
| <b>CHIRIA</b>  |               |               |                 |                       |   |   |
| Budhaburu<br>(McLellan)                                  | 08.12.45      | 31.03.20      | 823.617         | 16.11.04<br>(2nd RML) | Stage I FC granted by MoEFCC vide order no.- 8-70/2009-FC dated 7th March 2011. Compliance of Stage-I FC forwarded by State Govt. to MoEF on 22.09.2014. RO, MoEFCC, BBSR inspected the mine and the report was sent to MoEFCC, New Delhi on 24.07.2015.  | EC has been granted by MoEF&CC vide letter no - J-11015/249/2009-IA.II (M) dated 23.03.2011 for enhancement of production capacity to 4.2 MTPA.   |
| Ajitaburu  | 07.12.47      | 06.12.77      | 323.887         | 04.12.06<br>(2nd RML) |   | EC has been granted by MoEF&CC vide letter no - J-11015/505/ 2007-IA.II (M) dated 31.03.2011 for enhancement of production capacity to 2.8 MTPA.  |
| Sukri - Latur  | 22.03.49      | 21.03.79      | 609.554         | 11.03.08<br>(2nd RML) |   | EC has been granted by MoEF vide letter no- J-11015/247/ 2009-IA.II (M) dated 10.06.2013 for production capacity to 0.75 MTPA.  |
| Dhobil   | 08.03.48      | 07.03.38      | 513.036         | 06.03.97<br>(2nd RML) | Forestry clearance is deemed to be exist upto 2038.   | EC has been granted by MoEF vide letter no- J-11015/247/ 2009-IA.II (M) dated 24.01.2012 and amended dated 01.05.12 for production capacity to 0.75 MTPA. The amendment of EC for continuation of ore transportation by road for 5 more years beyond June, 2017 was granted on 19.04.17. Consent to Operate for 0.75 MTPA has been renewed by JSPCB on 09.03.2018 for the period up to 31.03.2022. CTO for Manoharpur siding for dispatch of 2.5 lakhs T/month of iron ore was granted by JSPCB on 08.12.16 for period upto 30.06.2021.   |
| Tatiburu   | 01.09.49      | 31.08.79      | 38.85           | 24.08.08<br>(2nd RML) | Virgin & Non-working lease.No FC  | No EC   |
| Ankua  | 14.06.82      | 31.03.20      | 67.178          | 18.06.11<br>(2nd RML) | Virgin & Non-working lease.No FC  | No EC   |

| <b>RMD MANPOWER POSITION AS ON 01.08.2018</b> |                   |                       |              |
|---|-------------------|-----------------------|--------------|
|   | <b>Executives</b> | <b>Non-Executives</b> | <b>Total</b> |
| <b>A. ORE MINES</b>                           |                   |                       |              |
| Kiriburu                                      | 90                | 536                   | 626          |
| Meghahatuburu                                 | 69                | 488                   | 557          |
| Bolani  | 92                | 425                   | 517          |
| Barsua  | 55                | 296                   | 351          |
| Kalta   | 15                | 60                    | 75           |
| Gua   | 65                | 506                   | 571          |
| Manoharpur(Chiria)                            | 16                | 55                    | 71           |
| <b>A.TOTAL</b>                                | <b>402</b>        | <b>2366</b>           | <b>2768</b>  |
| <b>B. FLUX MINES</b>                          |                   |                       |              |
| Purnapani                                     | 0                 | 10                    | 10           |
| Kuteshwar                                     | 23                | 104                   | 127          |
| BNP & TDMR                                    | 11                | 82                    | 93           |
| <b>B. TOTAL</b>                               | <b>34</b>         | <b>196</b>            | <b>230</b>   |
| <b>C. OFFICES</b>                             |                   |                       |              |
| Kolkata                                       | 68                | 33                    | 101          |
| Rourkela                                      | 14                | 16                    | 30           |
| Bokaro  | 1                 | 4                     | 5            |
| Durgapur                                      | 1                 | 4                     | 5            |
| Delhi   | 3                 | 2                     | 5            |
| Bhubaneswar                                   | 1                 | 2                     | 3            |
| Ranchi  | 1                 | 1                     | 2            |
| Burnpur                                       | 0                 | 1                     | 1            |
| MT  | 5                 | 0                     | 5            |
| <b>C. TOTAL</b>                               | <b>94</b>         | <b>63</b>             | <b>157</b>   |
| <b>GRAND TOTAL(A+B+C)</b>                     | <b>530</b>        | <b>2625</b>           | <b>3155</b>  |
| Manpower as on 01.07.2018                     | <b>531</b>        | <b>2640</b>           | <b>3171</b>  |
| Reduction(-) / Increase(+)                    | <b>-1</b>         | <b>-15</b>            | <b>-16</b>   |

## **SAFETY REPORT**

### **1.0 Accident Statistics:**

| Type of accident |     |     |            |    |    |                |     |     |                                    |     |     |
|------------------|-----|-----|------------|----|----|----------------|-----|-----|------------------------------------|-----|-----|
| Fatal            |     |     | Reportable |    |    | Non Reportable |     |     | Serious Accidents( for Mines only) |     |     |
| R                | C   | T   | R          | C  | T  | R              | C   | T   | R                                  | C   | T   |
| nil              | nil | nil | nil        | 01 | 01 | nil            | nil | nil | nil                                | nil | nil |

**1.0 Manhours worked :-1140421**

### **2.0 PME**

|          |                    |            |
|----------|--------------------|------------|
| <b>1</b> | <b>Regular</b>     | <b>65</b>  |
| <b>2</b> | <b>Contractual</b> | <b>119</b> |

### **3.0 Reportable & Near miss-**

### **4.0 Pit Safety Committee Meeting -- YES**

Safety Inspection done:

1. Mines
2. Statutory Register
3. Canteen & VT Centre

### **2.1 Works Area:**

#### **2.1.1 Safety Audits:**

| SI No. | Audit Type |          | Purpose |  | Agency involved  | Deptts. audited                 | Period / dates       | No. of observations made | No. of points complied |
|--------|------------|----------|---------|--|------------------|---------------------------------|----------------------|--------------------------|------------------------|
|        | Internal   | External | General |  |                  |                                 |                      |                          |                        |
|        | <b>3</b>   | <b>-</b> |         |  | Safety dept. RMD | Plant, workshop and mining area | 09/07/18 to 11/07/18 | 10                       | 10                     |

#### **2.1.2 Safety Inspections:**

| Sl. No. | Type of inspection/ agency  | Total No. of inspections (major deppts. inspected) | No. of Unsafe acts & conditions observed | Points complied | Balance Points |
|---------|---|--|--|-----------------|----------------|
| 1.      | Safety officer of SED   | 8  | 32                                       | 32              | 00             |
| 2.      | Shop DSOs   | 5  | 25                                       | 25              | 0              |
| 3.      | Apex Committee  | 3  | 10                                       | 10              | 0              |
| 4.      | Other schedule/ joint inspections [Housekeeping, Crane, Cable Galleries etc.] | 5  | 5  | 5               | 0              |
| 5.      | Any other PSC   |  |  |                 |                |

### 2.1.3

(A) Training and Workshops ( General/ Job specific) - Separate for Executives and Non- executives

| Sl. No. | Name of the programme | No. of programmes | No. of participants | Cumulative |              |
|---------|-----------------------|-------------------|---------------------|------------|--------------|
|         |                       |                   |                     | Programs   | Participants |
| 1       | Refresher Training    | 6                 | 150                 |            |              |

(B) Regular Trainings

| Safety Talk |       |       | Induction Training |      |      | On –the-job/ Refresher Training |       |      |
|-------------|-------|-------|--------------------|------|------|---------------------------------|-------|------|
| R-245       | C-250 | T-495 | R-0                | C-75 | T-75 | R-21                            | C -70 | T-91 |

### 2.1.4 Safety Monitoring &Review:

| Sl. No. | Item   | Quantum | Title |
|---------|--|---------|-------|
| 1.      | Protocols prepared                               |         |       |
| 2.      | Work permit issued                               |         |       |
| 3.      | Monitoring during capital repair/ major shutdown |         |       |
| 4.      | Safety clauses incorporated in SOPs/ SMPs        |         |       |
| 5.      | Mock Drills conducted                            |         |       |
| 6.      | Any Other  |         |       |

### 2.1.5 Special Drives & Campaigns

| Sl No. | Items                          | Observations | Remarks |
|--------|--------------------------------|--------------|---------|
| 1.     | Checking of heavy vehicles     |              |         |
| 2.     | Crash helmets                  |              |         |
| 3.     | Personal Protective appliances |              |         |
| 4.     | Roko-Toko                      |              |         |
| 5.     | Any other                      |              |         |

### 2.1.6 Participative Meetings:

| Sl.No. | Name / Type   | Quantum | Remarks |
|--------|---|---------|---------|
| 1.     | Departmental Safety Committee / Deptt. consultative committee | 9       |         |
| 2.     | Central Safety committee                                      | 1       |         |
| 3.     | Pit Safety Committee (for mines only)                         | 9       |         |
| 4.     | Any other   |         |         |



STREET PLANT

PERFORWAGE

PERFORWAGE

# IRON ORE STOCK INVENTORY BEHAVIOUR

July 2018  
IRON ORE LUMP

UNIT: '000 TONNES

| PLANT      | STK<br>01.04.2018 | STK<br>01.07.2018 | RECEIPTS   |             | CONS       |             | STK<br>01.08.2018 | ST+/-      |            |
|------------|-------------------|-------------------|------------|-------------|------------|-------------|-------------------|------------|------------|
|            |                   |                   | MTH        | CUM         | MTH        | CUM         |                   | MTH        | YR         |
| BSL        | 28                | 13                | 203        | 751         | 188        | 767         | 33                | 20         | 5          |
| DSP        | 11                | 37                | 108        | 496         | 113        | 474         | 32                | -5         | 21         |
| RSP        | 11                | 16                | 193        | 729         | 199        | 730         | 11                | -5         | 0          |
| ISP        | 5                 | 6                 | 89         | 414         | 84         | 358         | 20                | 14         | 15         |
| BSP        | 256               | 239               |            |             | 181        | 909         | 330               | 91         | 74         |
| <b>TOT</b> | <b>311</b>        | <b>311</b>        | <b>593</b> | <b>2390</b> | <b>765</b> | <b>3238</b> | <b>426</b>        | <b>115</b> | <b>115</b> |

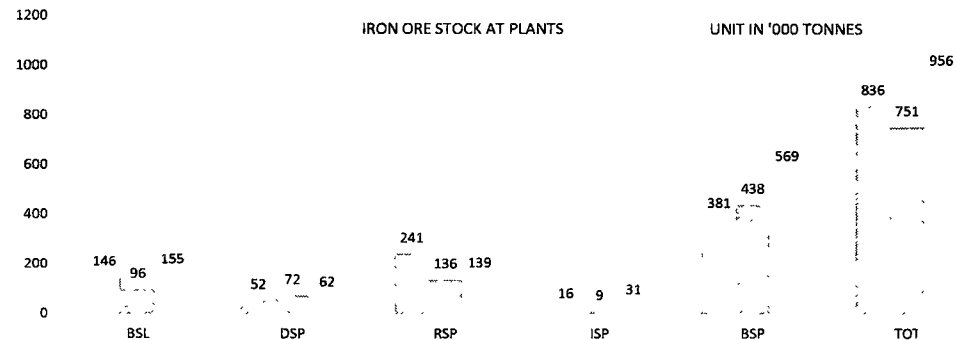
## IRON ORE FINES

| PLANT      | STK<br>01.04.2018 | STK<br>01.07.2018 | RECEIPTS    |             | CONS        |             | STK<br>01.08.2018 | ST+/-     |          |
|------------|-------------------|-------------------|-------------|-------------|-------------|-------------|-------------------|-----------|----------|
|            |                   |                   | MTH         | CUM         | MTH         | CUM         |                   | MTH       | YR       |
| BSL        | 118               | 83                | 332         | 1361        | 329         | 1459        | 122               | 39        | 4        |
| DSP        | 41                | 35                | 222         | 916         | 227         | 928         | 30                | -5        | -11      |
| RSP        | 230               | 120               | 280         | 1203        | 323         | 1492        | 128               | 8         | -102     |
| ISP        | 11                | 3                 | 243         | 949         | 239         | 1016        | 11                | 8         | 0        |
| BSP        | 125               | 199               |             | 8           | 289         | 1357        | 239               | 40        | 114      |
| <b>TOT</b> | <b>525</b>        | <b>440</b>        | <b>1077</b> | <b>4437</b> | <b>1407</b> | <b>6252</b> | <b>530</b>        | <b>90</b> | <b>5</b> |

## IRON ORE TOTAL

| PLANT      | STK<br>01.04.2018 | STK<br>01.07.2018 | RECEIPTS    |             | CONS        |             | STK<br>01.08.2018 | ST+/-      |            |
|------------|-------------------|-------------------|-------------|-------------|-------------|-------------|-------------------|------------|------------|
|            |                   |                   | MTH         | CUM         | MTH         | CUM         |                   | MTH        | YR         |
| BSL        | 146               | 96                | 535         | 2112        | 517         | 2226        | 155               | 59         | 9          |
| DSP        | 52                | 72                | 330         | 1412        | 340         | 1402        | 62                | -10        | 10         |
| RSP        | 241               | 136               | 473         | 1932        | 522         | 2222        | 139               | 3          | -102       |
| ISP        | 16                | 9                 | 332         | 1363        | 323         | 1374        | 31                | 22         | 15         |
| BSP        | 381               | 438               | 0           | 8           | 470         | 2266        | 569               | 131        | 188        |
| <b>TOT</b> | <b>836</b>        | <b>751</b>        | <b>1670</b> | <b>6827</b> | <b>2172</b> | <b>9490</b> | <b>956</b>        | <b>205</b> | <b>120</b> |

\* BSP RECEIPT FROM RMD MINES



# PRODUCTION PERFORMANCE

July 2018

हॉट मेटल

UNIT 000 TONNES

| संयंत्र               | FOR THE MONTH |      |     | CUMUL FOR YR |      |     | LAST YR | GRTH % |
|-----------------------|---------------|------|-----|--------------|------|-----|---------|--------|
|                       | TGT           | ACT  | %FF | TGT          | ACT  | %FF |         |        |
| बोकारो                | 379           | 328  | 87  | 1409         | 1359 | 96  | 1211    | 12     |
| दूर्गापुर             | 225           | 213  | 95  | 872          | 834  | 96  | 656     | 27     |
| राउरकेला              | 354           | 337  | 95  | 1394         | 1267 | 91  | 1015    | 25     |
| बर्नपुर               | 222           | 200  | 90  | 870          | 776  | 89  | 625     | 24     |
| पूर्वी इस्पात संयंत्र | 1180          | 1078 | 91  | 4545         | 4236 | 93  | 3507    | 21     |
| भिलाई                 | 480           | 285  | 59  | 1764         | 1380 | 78  | 1318    | 5      |
| TOTAL                 | 1660          | 1363 | 82  | 6309         | 5616 | 89  | 4825    | 16     |

सिन्तर

UNIT 000 TONNES

| संयंत्र               | FOR THE MONTH |      |     | CUMUL FOR YR |      |     | LAST YR | GRTH % |
|-----------------------|---------------|------|-----|--------------|------|-----|---------|--------|
|                       | TGT           | ACT  | %FF | TGT          | ACT  | %FF |         |        |
| बोकारो                | 566           | 445  | 79  | 1913         | 1904 | 100 | 1816    | 5      |
| दूर्गापुर             | 286           | 258  | 90  | 1086         | 1104 | 102 | 928     | 19     |
| राउरकेला              | 544           | 561  | 103 | 2143         | 2121 | 99  | 1634    | 30     |
| बर्नपुर               | 321           | 287  | 89  | 1255         | 1170 | 93  | 1049    | 12     |
| पूर्वी इस्पात संयंत्र | 1717          | 1551 | 90  | 6397         | 6299 | 98  | 5427    | 16     |
| भिलाई                 | 753           | 441  | 59  | 2771         | 2124 | 77  | 1966    | 8      |
| TOTAL                 | 2470          | 1992 | 81  | 9168         | 8423 | 92  | 7393    | 14     |

# IRON ORE RECEIPTS FOR THE MONTH OF July 2018

*FIGS IN '000 T*

| Lump Receipt |     |     |     |     |     |     |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | KBR | MBR | BOL | BAR | TAL | KAL | GUA | PUR | MPR | DRZ | TOT |
| BSL          | 55  | 23  | 70  | 7   | 4   | 33  | 3   |     | 8   |     | 202 |
| DSP          |     |     | 72  |     |     |     | 36  |     |     |     | 108 |
| RSP          | 35  | 63  |     | 69  |     | 19  |     |     | 7   |     | 194 |
| ISP          |     |     | 31  |     |     |     | 58  |     |     |     | 89  |
| BSP          |     |     |     |     |     |     |     |     |     |     |     |
| TOT          | 90  | 86  | 173 | 76  | 4   | 52  | 97  |     | 15  |     | 593 |

| Fines Receipt |     |     |     |     |     |     |     |     |     |     |      |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|               | KBR | MBR | BOL | BAR | TAL | KAL | GUA | PUR | MPR | DRZ | TOT  |
| BSL           | 88  | 57  | 49  | 86  | 14  | 4   | 11  |     | 23  |     | 333  |
| DSP           |     | 10  | 136 |     |     |     | 76  |     |     |     | 222  |
| RSP           | 138 | 94  |     | 29  |     | 11  |     |     | 8   |     | 279  |
| ISP           |     | 24  | 92  |     |     |     | 127 |     |     |     | 243  |
| BSP           |     |     |     |     |     |     |     |     |     |     |      |
| TOT           | 226 | 185 | 277 | 115 | 14  | 15  | 214 |     | 31  |     | 1077 |

| Total Receipt |     |     |     |     |     |     |     |     |     |     |      |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|               | KBR | MBR | BOL | BAR | TAL | KAL | GUA | PUR | MPR | DRZ | TOT  |
| BSL           | 143 | 80  | 119 | 93  | 18  | 37  | 15  |     | 31  |     | 534  |
| DSP           |     | 10  | 208 |     |     |     | 112 |     |     |     | 329  |
| RSP           | 173 | 157 |     | 98  |     | 30  |     |     | 15  |     | 473  |
| ISP           |     | 24  | 124 |     |     |     | 185 |     |     |     | 333  |
| BSP           |     |     |     |     |     |     |     |     |     |     |      |
| TOT           | 316 | 271 | 450 | 191 | 18  | 67  | 311 |     | 46  |     | 1670 |

# IRON ORE RECEIPTS TILL THE MONTH OF July 2018

*FIGS IN '000 T*

| Lump Receipt |     |     |     |     |     |     |     |     |     |     |      |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|              | KBR | MBR | BOL | BAR | TAL | KAL | GUA | PUR | MPR | DRZ | TOT  |
| BSL          | 142 | 142 | 163 | 24  | 11  | 199 | 9   |     | 61  |     | 751  |
| DSP          |     | 7   | 339 |     |     |     | 150 |     |     |     | 496  |
| RSP          | 193 | 201 |     | 120 | 96  | 71  |     |     | 42  | 6   | 729  |
| ISP          |     |     | 153 |     |     |     | 257 |     | 4   |     | 414  |
| BSP          |     |     |     |     |     |     |     |     |     |     |      |
| TOT          | 335 | 350 | 655 | 144 | 107 | 270 | 416 |     | 107 | 6   | 2390 |

| Fines Receipt |     |     |      |     |     |     |     |     |     |     |      |
|---------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|
|               | KBR | MBR | BOL  | BAR | TAL | KAL | GUA | PUR | MPR | DRZ | TOT  |
| BSL           | 352 | 399 | 241  | 149 | 79  | 60  | 30  |     | 51  |     | 1361 |
| DSP           |     | 34  | 543  |     |     |     | 339 |     |     |     | 916  |
| RSP           | 551 | 389 |      | 57  |     | 182 |     |     | 24  |     | 1203 |
| ISP           | 6   | 49  | 428  | 4   |     |     | 454 |     | 8   |     | 949  |
| BSP           | 8   |     |      |     |     |     |     |     |     |     | 8    |
| TOT           | 917 | 871 | 1212 | 210 | 79  | 242 | 823 |     | 83  |     | 4437 |

| Total Receipt |      |      |      |     |     |     |      |     |     |     |      |
|---------------|------|------|------|-----|-----|-----|------|-----|-----|-----|------|
|               | KBR  | MBR  | BOL  | BAR | TAL | KAL | GUA  | PUR | MPR | DRZ | TOT  |
| BSL           | 494  | 541  | 404  | 173 | 90  | 259 | 39   |     | 112 |     | 2112 |
| DSP           |      | 41   | 882  |     |     |     | 489  |     |     |     | 1412 |
| RSP           | 744  | 590  |      | 177 | 96  | 253 |      |     | 66  | 6   | 1932 |
| ISP           | 6    | 49   | 581  | 4   |     |     | 711  |     | 12  |     | 1363 |
| BSP           | 8    |      |      |     |     |     |      |     |     |     | 8    |
| TOT           | 1252 | 1221 | 1867 | 354 | 186 | 512 | 1239 |     | 190 | 6   | 6827 |

## PRESENT BASE FREIGHT IN RS PER TONNE IN TRAIN LOAD CLASS

|                               | BSL (BSCS) |                | DSP (DSEY) |                | RSP (HSPG) |               | IISCO (IISD) |                | BSP (BSPC) |                |
|-------------------------------|------------|----------------|------------|----------------|------------|---------------|--------------|----------------|------------|----------------|
| IRON ORE                      | DIST       | FRT            | DIST       | FRT            | DIST       | FRT           | DIST         | FRT            | DIST       | FRT            |
| <b>180 CLASS to 165 CLASS</b> | Km         | 01.04.15       | Km         | 01.04.15       | Km         | 01.04.15      | Km           | 01.04.15       | Km         | 01.04.15       |
| KRBU(N/B) (FOS)               | 371        | <b>613.00</b>  | 409        | <b>687.60</b>  | 89         | <b>234.00</b> | 377          | <b>650.10</b>  | 541        | <b>874.70</b>  |
| KRBU(O/B) (SOBK)              | 371        | <b>613.00</b>  | 409        | <b>687.60</b>  | 90         | <b>234.00</b> | 377          | <b>650.10</b>  | 541        | <b>874.70</b>  |
| MBR (SSMK)                    | 371        | <b>613.00</b>  | 409        | <b>687.60</b>  | 89         | <b>234.00</b> | 377          | <b>650.10</b>  | 541        | <b>874.70</b>  |
| BOLANI (BYFS)                 | 272        | <b>467.80</b>  | 318        | <b>540.00</b>  | 223        | <b>392.50</b> | 286          | <b>504.90</b>  | 683        | <b>1097.30</b> |
| BARSUA (PBSB)                 | 348        | <b>576.50</b>  | 390        | <b>650.10</b>  | 68         | <b>234.00</b> | 352          | <b>650.10</b>  | 523        | <b>874.70</b>  |
| ROXY (HLSR)                   | 332        | <b>576.50</b>  | 380        | <b>650.10</b>  | 59         | <b>234.00</b> | 346          | <b>576.50</b>  | 513        | <b>874.70</b>  |
| GUA (ISCG)                    | 265        | <b>467.80</b>  | 311        | <b>540.00</b>  | 216        | <b>392.50</b> | 279          | <b>504.90</b>  | 667        | <b>1097.30</b> |
| MANOHARPUR (IISM)             | 241        | <b>430.20</b>  | 287        | <b>504.90</b>  | 33         | <b>234.00</b> | 255          | <b>467.80</b>  | 489        | <b>799.30</b>  |
| DALLIRAJHARA (DRZ)            | 827        | <b>1317.70</b> | 871        | <b>1390.50</b> | 548        | <b>874.70</b> | 832          | <b>1317.70</b> | 83         | <b>234.00</b>  |

|                               | BSL  |                | DSP  |                | RSP  |               | IISCO |                | BSP  |                |
|-------------------------------|------|----------------|------|----------------|------|---------------|-------|----------------|------|----------------|
| FLUX                          | DIST | FRT            | DIST | FRT            | DIST | FRT           | DIST  | FRT            | DIST | FRT            |
| <b>160 CLASS to 145 CLASS</b> | Km   | 01.04.15       | Km   | 01.04.15       | Km   | 01.04.15      | Km    | 01.04.15       | Km   | 01.04.15       |
| BHAWANATHPUR (PSBS)           | 379  | <b>571.30</b>  | 495  | <b>702.40</b>  | 568  | <b>834.30</b> | 461   | <b>668.90</b>  | 1013 | <b>1478.40</b> |
| KHANABANJARI (KHBj)           | 726  | <b>1029.60</b> | 830  | <b>1158.00</b> | 604  | <b>899.40</b> | 797   | <b>1093.70</b> | 512  | <b>768.60</b>  |

| Shortest Route                | NINL (NINS) |               | PARADEEP (PPTG) |                | HALDIA (HLZ) |               | VISL (BDVT) |                |
|-------------------------------|-------------|---------------|-----------------|----------------|--------------|---------------|-------------|----------------|
| IRON ORE                      | DIST        | FRT           | DIST            | FRT            | DIST         | FRT           | DIST        | FRT            |
| <b>180 CLASS to 165 CLASS</b> | Km          | 01.04.15      | Km              | 01.04.15       | Km           | 01.04.15      | Km          | 01.04.15       |
| GUA (ISCG)                    | 278.79      | <b>504.90</b> | 425.54          | <b>724.70</b>  | 394.86       | <b>650.10</b> | 2199.00     | <b>3042.10</b> |
| BOLANI (BYFS)                 | 286.08      | <b>504.90</b> | 432.83          | <b>724.70</b>  | 402.15       | <b>687.60</b> |             |                |
| MBR (SSMK)                    | 533.22      | <b>874.70</b> | 593.05          | <b>949.40</b>  | 492.62       | <b>799.30</b> | 1884.00     | <b>2844.40</b> |
| KRBU(N/B) (FOS)               |             |               |                 |                |              |               |             |                |
| KRBU(O/B) (SOBK)              |             |               |                 |                |              |               |             |                |
| ROXY (HLSR)                   | 502.90      | <b>874.70</b> | 562.77          | <b>949.40</b>  | 462.30       | <b>761.10</b> |             |                |
| BARSUA (PBSB)                 | 512.84      | <b>874.70</b> | 572.71          | <b>949.40</b>  | 472.24       | <b>761.10</b> |             |                |
| MANOHARPUR (IISM)             | 411.81      | <b>687.60</b> | 536.58          | <b>874.70</b>  | 371.21       | <b>613.00</b> |             |                |
| BOKARO (BSCS)                 | 493.29      | <b>799.30</b> | 630.83          | <b>1023.50</b> | 368.31       | <b>613.00</b> |             |                |
| RSP (HSPG)                    | 444.26      | <b>724.70</b> | 504.13          | <b>874.70</b>  | 403.76       | <b>687.60</b> |             |                |