

**Final abstract of trees found in the forest area proposed for diversion over 183.218 ha  
(Broken-up area- 45.992 ha + Virgin forest - 137.226 ha)**

| Sl No. | Description                                                                                                                                                     | Sound | Un-sound | Total |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|
| 1      | Total nos. of trees enumerated in the broken-up area- 45.992 ha                                                                                                 | 349   | 1291     | 1640  |
| 2      | Total nos. of trees arrived after extrapolation of the result found in 25 nos. of Sample Plots of 1.00 ha each- $9301/25$ plots (1 ha each) $\times$ 137.226 ha | 14760 | 36294    | 51054 |
| 3      | Total nos. of trees found in the forest area proposed for diversion- 183.218 ha (Broken + Virgin)                                                               | 15109 | 37585    | 52694 |

- (i) Total nos. of units in virgin forest =  $1417.23 \text{ units} / 25 \times 137.226$   
 = 7779.23 units  
 Nos. of unit in broken up forest area  
 = 288.66 units  
**Total nos. of units**  
 = 8067.89 units

- (ii) Approximate additional Firewood = 807 Truck load

  
 Divisional Forest Officer  
 Keonjhar Division  
 Divisional Forest Officer  
 Keonjhar Division

## Annexure-

**Proposal for diversion of 183.218 ha Forest Land of Banspani Iron Ore Mines of M/s OMC Ltd**  
(Virgin forest land over 137.226 ha in 25 nos. of sample plots)

| Sl No. | Type of Species    | Name of Species        | 30 to 59 CM |             | 60 to 89 CM |             | 90 to 119 CM |            | 120m to 149 CM |           | 150 to 179 CM |           | 180 Cm and above |          | Total       |             | G. Total    |
|--------|--------------------|------------------------|-------------|-------------|-------------|-------------|--------------|------------|----------------|-----------|---------------|-----------|------------------|----------|-------------|-------------|-------------|
|        |                    |                        | N           | D           | N           | D           | N            | D          | N              | D         | N             | D         | N                | D        | N           | D           |             |
| 1      | Special Category   | Sisoo                  | 0           | 0           | 1           | 0           | 0            | 0          | 1              | 0         | 0             | 0         | 0                | 0        | 1           | 2           | 3           |
|        |                    | <b>Total Spl Class</b> | <b>0</b>    | <b>0</b>    | <b>1</b>    | <b>0</b>    | <b>0</b>     | <b>0</b>   | <b>1</b>       | <b>0</b>  | <b>0</b>      | <b>0</b>  | <b>0</b>         | <b>0</b> | <b>1</b>    | <b>2</b>    | <b>3</b>    |
| 1      | 1st Class          | Sal                    | 955         | 2909        | 406         | 563         | 26           | 85         | 1              | 28        | 0             | 4         | 0                | 2        | 1388        | 3591        | 4979        |
| 2      | Category           | Pia-Sal                | 15          | 25          | 8           | 14          | 3            | 4          | 1              | 1         | 0             | 0         | 0                | 0        | 27          | 44          | 71          |
| 3      |                    | Ghambar                | 2           | 20          | 1           | 9           | 0            | 2          | 0              | 1         | 0             | 0         | 0                | 0        | 3           | 32          | 35          |
|        |                    | <b>Total 1st Class</b> | <b>972</b>  | <b>2954</b> | <b>415</b>  | <b>586</b>  | <b>29</b>    | <b>91</b>  | <b>2</b>       | <b>30</b> | <b>0</b>      | <b>4</b>  | <b>0</b>         | <b>2</b> | <b>1418</b> | <b>3667</b> | <b>5085</b> |
| 1      | 2nd Class          | Asana                  | 50          | 114         | 7           | 87          | 1            | 22         | 0              | 3         | 0             | 0         | 0                | 0        | 58          | 226         | 284         |
| 2      | Category           | Dhaura                 | 52          | 169         | 9           | 80          | 1            | 17         | 0              | 0         | 0             | 0         | 0                | 0        | 62          | 266         | 328         |
| 3      |                    | Mango                  | 0           | 0           | 0           | 0           | 0            | 0          | 0              | 0         | 0             | 0         | 3                | 0        | 3           | 0           | 3           |
| 4      |                    | Jamun                  | 2           | 13          | 2           | 6           | 0            | 3          | 0              | 1         | 0             | 0         | 0                | 0        | 4           | 23          | 27          |
| 5      |                    | Kendu                  | 74          | 167         | 12          | 27          | 1            | 4          | 0              | 0         | 0             | 0         | 1                | 0        | 88          | 198         | 286         |
|        |                    | <b>Total 2nd Class</b> | <b>178</b>  | <b>463</b>  | <b>30</b>   | <b>200</b>  | <b>3</b>     | <b>46</b>  | <b>0</b>       | <b>4</b>  | <b>0</b>      | <b>0</b>  | <b>4</b>         | <b>0</b> | <b>215</b>  | <b>713</b>  | <b>928</b>  |
|        |                    | Misc.                  | 710         | 1599        | 247         | 461         | 55           | 127        | 20             | 30        | 10            | 8         | 13               | 5        | 1055        | 2230        | 3285        |
| 1      | 3rd Class Category | <b>Total 3rd Class</b> | <b>710</b>  | <b>1599</b> | <b>247</b>  | <b>461</b>  | <b>55</b>    | <b>127</b> | <b>20</b>      | <b>30</b> | <b>10</b>     | <b>8</b>  | <b>13</b>        | <b>5</b> | <b>1055</b> | <b>2230</b> | <b>3285</b> |
|        |                    | <b>Grand Total</b>     | <b>1860</b> | <b>5016</b> | <b>693</b>  | <b>1247</b> | <b>87</b>    | <b>265</b> | <b>22</b>      | <b>65</b> | <b>10</b>     | <b>12</b> | <b>17</b>        | <b>7</b> | <b>2689</b> | <b>6612</b> | <b>9501</b> |

No of Units. = 1417.23 units

Quantum of Forest Produce from the Forest Land involved in the virgin forest area.

i) Total nos. of units = 1417.23 units/ 25 x 137.226 ha. = 7779.23 units

ii) Approximate additional Firewood. = 770 Truck load

Divisional Forest Officer,

Keonjhar Division  
Keonjhar Division

# CALCULATION OF UNIT VALUE OF TIMBER

(Virgin forest- 137.226 ha)

Proposal for diversion of 183.218 ha Forest Land of Banspani Iron Ore Mines of M/s OMC Ltd

## Girth / Class

| Spl. Class         | Sound |   |       |   |      | Unsound |   |      |   |      |
|--------------------|-------|---|-------|---|------|---------|---|------|---|------|
| Under 60 cm        | 0     | X | 0.50  | = | 0.00 | 0       | X | 0.25 | = | 0.00 |
| 60 cm to U/90 cm   | 1     | X | 1.00  | = | 1.00 | 0       | X | 0.50 | = | 0.00 |
| 90 cm to U/120 cm  | 0     | X | 2.00  | = | 0.00 | 1       | X | 1.00 | = | 1.00 |
| 120 cm to U/150 cm | 0     | X | 4.00  | = | 0.00 | 1       | X | 2.00 | = | 2.00 |
| 150 cm to U/180 cm | 0     | X | 8.00  | = | 0.00 | 0       | X | 4.00 | = | 0.00 |
| 180 cm and Above   | 0     | X | 12.00 | = | 0.00 | 0       | X | 6.00 | = | 0.00 |
|                    | 1     |   |       | = | 1.00 | 2       |   |      | = | 3.00 |

## 1st. Class

|                    | Sound |   |      |   |        | Unsound |   |      |   |        |
|--------------------|-------|---|------|---|--------|---------|---|------|---|--------|
| Under 60 cm        | 972   | X | 0.25 | = | 243.00 | 2954    | X | 0.12 | = | 354.48 |
| 60 cm to U/90 cm   | 415   | X | 0.50 | = | 207.50 | 586     | X | 0.25 | = | 146.50 |
| 90 cm to U/120 cm  | 29    | X | 1.00 | = | 29.00  | 91      | X | 0.50 | = | 45.50  |
| 120 cm to U/150 cm | 2     | X | 2.00 | = | 4.00   | 30      | X | 1.00 | = | 30.00  |
| 150 cm to U/180 cm | 0     | X | 4.00 | = | 0.00   | 4       | X | 2.00 | = | 8.00   |
| 180 cm and Above   | 0     | X | 6.00 | = | 0.00   | 2       | X | 3.00 | = | 6.00   |
|                    | 1418  |   |      | = | 483.50 | 3667    |   |      | = | 590.48 |

## 2nd. Class

|                    | Sound |   |      |   |       | Unsound |   |      |   |       |
|--------------------|-------|---|------|---|-------|---------|---|------|---|-------|
| Under 60 cm        | 178   | X | 0.12 | = | 21.36 | 463     | X | 0.06 | = | 27.78 |
| 60 cm to U/90 cm   | 30    | X | 0.25 | = | 7.50  | 200     | X | 0.12 | = | 24.00 |
| 90 cm to U/120 cm  | 3     | X | 0.50 | = | 1.50  | 46      | X | 0.25 | = | 11.50 |
| 120 cm to U/150 cm | 0     | X | 1.00 | = | 0.00  | 4       | X | 0.50 | = | 2.00  |
| 150 cm to U/180 cm | 0     | X | 2.00 | = | 0.00  | 0       | X | 1.00 | = | 0.00  |
| 180 cm and Above   | 4     | X | 3.00 | = | 12.00 | 0       | X | 1.50 | = | 0.00  |
|                    | 215   |   |      | = | 42.36 | 713     |   |      | = | 65.28 |

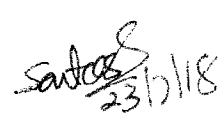
## 3rd. Class

|                    | Sound |   |      |   |        | Unsound |   |      |   |        |
|--------------------|-------|---|------|---|--------|---------|---|------|---|--------|
| Under 60 cm        | 710   | X | 0.06 | = | 42.60  | 1599    | X | 0.03 | = | 47.97  |
| 60 cm to U/90 cm   | 247   | X | 0.12 | = | 29.64  | 461     | X | 0.06 | = | 27.66  |
| 90 cm to U/120 cm  | 55    | X | 0.25 | = | 13.75  | 127     | X | 0.12 | = | 15.24  |
| 120 cm to U/150 cm | 20    | X | 0.50 | = | 10.00  | 30      | X | 0.25 | = | 7.50   |
| 150 cm to U/180 cm | 10    | X | 1.00 | = | 10.00  | 8       | X | 0.50 | = | 4.00   |
| 180 cm and Above   | 13    | X | 1.50 | = | 19.50  | 5       | X | 0.75 | = | 3.75   |
|                    | 1055  |   |      | = | 125.49 | 2230    |   |      | = | 106.12 |

Total Sound = 2689 Nos = 652.35 Unit

Total Unsound = 6612 Nos = 764.88 Unit

**TOTAL 9301 Nos = 1417.23 Unit**

  
 23/10/18  
 Divisional Forest Officer,  
 Keonjhar Division.  
 Divisional Forest Officer  
 Keonjhar Division

## Annexure-

**Proposal for diversion of 183.218 ha Forest Land of Banspani Iron Ore Mines of M/s OMC Ltd**  
(Broken forest land over 45.992 ha)

| Sl No. | Type of Species | Name of Species        | 30 to 59 CM |            | 60 to 89 CM |            | 90 to 119 CM |            | 120m to 149 CM |           | 150 to 179 CM |           | 180 Cm and above |           | Total      |             | G. Total    |
|--------|-----------------|------------------------|-------------|------------|-------------|------------|--------------|------------|----------------|-----------|---------------|-----------|------------------|-----------|------------|-------------|-------------|
|        |                 |                        | N           | D          | N           | D          | N            | D          | N              | D         | N             | D         | N                | D         | N          | D           |             |
| 1      | 1st Class       | Sal                    | 131         | 229        | 62          | 80         | 4            | 23         | 0              | 4         | 0             | 1         | 0                | 0         | 197        | 337         | 534         |
| 2      | Category        | Bandhan                | 0           | 0          | 1           | 0          | 0            | 0          | 0              | 0         | 0             | 0         | 0                | 1         | 1          | 2           | 2           |
| 3      |                 | Ghambar                | 0           | 0          | 0           | 0          | 0            | 0          | 0              | 2         | 0             | 0         | 0                | 0         | 0          | 2           | 2           |
| 4      |                 | Piasala                | 0           | 5          | 0           | 1          | 0            | 0          | 1              | 0         | 0             | 0         | 0                | 0         | 1          | 6           | 7           |
|        |                 | <b>Total 1st Class</b> | <b>131</b>  | <b>234</b> | <b>63</b>   | <b>81</b>  | <b>4</b>     | <b>23</b>  | <b>1</b>       | <b>7</b>  | <b>0</b>      | <b>1</b>  | <b>0</b>         | <b>1</b>  | <b>199</b> | <b>347</b>  | <b>546</b>  |
| 1      | 2nd Class       | Asana                  | 1           | 25         | 0           | 29         | 0            | 15         | 0              | 4         | 1             | 0         | 0                | 0         | 2          | 73          | 75          |
| 2      | Category        | Mango                  | 0           | 0          | 0           | 0          | 0            | 0          | 0              | 0         | 0             | 0         | 0                | 1         | 0          | 1           | 1           |
|        |                 | Dhaura                 | 0           | 33         | 1           | 23         | 1            | 16         | 0              | 0         | 0             | 0         | 0                | 0         | 2          | 72          | 74          |
|        |                 | Panasa                 |             |            |             |            |              |            |                |           |               | 1         |                  | 2         | 0          | 3           | 3           |
| 3      |                 | Jamun                  | 1           | 7          | 1           | 3          | 0            | 3          | 0              | 2         | 2             | 3         | 0                | 0         | 4          | 18          | 22          |
| 4      |                 | Kasi                   | 1           | 7          | 0           | 1          | 0            | 0          | 0              | 0         | 0             | 0         | 0                | 0         | 1          | 8           | 9           |
| 5      |                 | Kendu                  | 5           | 61         | 2           | 24         | 1            | 3          | 0              | 4         | 0             | 2         | 0                | 0         | 8          | 94          | 102         |
|        |                 | <b>Total 2nd Class</b> | <b>8</b>    | <b>133</b> | <b>4</b>    | <b>80</b>  | <b>2</b>     | <b>37</b>  | <b>0</b>       | <b>10</b> | <b>3</b>      | <b>6</b>  | <b>0</b>         | <b>3</b>  | <b>17</b>  | <b>269</b>  | <b>286</b>  |
| 1      | 3rd Class       | Misc.                  | 63          | 384        | 38          | 151        | 16           | 76         | 1              | 19        | 6             | 21        | 9                | 24        | 133        | 675         | 808         |
|        | Category        | <b>Total 3rd Class</b> | <b>63</b>   | <b>384</b> | <b>38</b>   | <b>151</b> | <b>16</b>    | <b>76</b>  | <b>1</b>       | <b>19</b> | <b>6</b>      | <b>21</b> | <b>9</b>         | <b>24</b> | <b>133</b> | <b>675</b>  | <b>808</b>  |
|        |                 | <b>Grand Total</b>     | <b>202</b>  | <b>751</b> | <b>105</b>  | <b>312</b> | <b>22</b>    | <b>136</b> | <b>2</b>       | <b>36</b> | <b>9</b>      | <b>28</b> | <b>9</b>         | <b>28</b> | <b>349</b> | <b>1291</b> | <b>1640</b> |

No of Units. = 288.66 units

Quantum of Forest Produce from the Forest Land involved in the broken up forest area.

i) Total nos. of units = 288.66 units

ii) Approximate additional Firewood. = 160 Truck load

*Sd/- 23/11/18*  
Divisional Forest Officer,

Keonjhar Division

Divisional Forest Officer

Keonjhar Division

# CALCULATION OF UNIT VALUE OF TIMBER

(Broken up forest- 45.992 ha)

Proposal for diversion of 183.218 ha Forest Land of Banspani Iron Ore Mines of M/s OMC Ltd

## Girth / Class

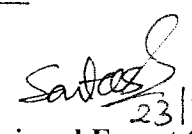
| Spl. Class         | Sound |   |       |   |      | Unsound |   |      |   |      |
|--------------------|-------|---|-------|---|------|---------|---|------|---|------|
| Under 60 cm        | 0     | X | 0.50  | = | 0.00 | 0       | X | 0.25 | = | 0.00 |
| 60 cm to U/90 cm   | 0     | X | 1.00  | = | 0.00 | 0       | X | 0.50 | = | 0.00 |
| 90 cm to U/120 cm  | 0     | X | 2.00  | = | 0.00 | 0       | X | 1.00 | = | 0.00 |
| 120 cm to U/150 cm | 0     | X | 4.00  | = | 0.00 | 0       | X | 2.00 | = | 0.00 |
| 150 cm to U/180 cm | 0     | X | 8.00  | = | 0.00 | 0       | X | 4.00 | = | 0.00 |
| 180 cm and Above   | 0     | X | 12.00 | = | 0.00 | 0       | X | 6.00 | = | 0.00 |
|                    | 0     |   |       | = | 0.00 | 0       |   |      | = | 0.00 |

| 1st. Class         | Sound |   |      |   |       | Unsound |   |      |   |       |
|--------------------|-------|---|------|---|-------|---------|---|------|---|-------|
| Under 60 cm        | 131   | X | 0.25 | = | 32.75 | 234     | X | 0.12 | = | 28.08 |
| 60 cm to U/90 cm   | 63    | X | 0.50 | = | 31.50 | 81      | X | 0.25 | = | 20.25 |
| 90 cm to U/120 cm  | 4     | X | 1.00 | = | 4.00  | 23      | X | 0.50 | = | 11.50 |
| 120 cm to U/150 cm | 1     | X | 2.00 | = | 2.00  | 7       | X | 1.00 | = | 7.00  |
| 150 cm to U/180 cm | 0     | X | 4.00 | = | 0.00  | 1       | X | 2.00 | = | 2.00  |
| 180 cm and Above   | 0     | X | 6.00 | = | 0.00  | 1       | X | 3.00 | = | 3.00  |
|                    | 199   |   |      | = | 70.25 | 347     |   |      | = | 71.83 |

| 2nd. Class         | Sound |   |      |   |      | Unsound |   |      |   |       |
|--------------------|-------|---|------|---|------|---------|---|------|---|-------|
| Under 60 cm        | 8     | X | 0.12 | = | 0.96 | 133     | X | 0.06 | = | 7.98  |
| 60 cm to U/90 cm   | 4     | X | 0.25 | = | 1.00 | 80      | X | 0.12 | = | 9.60  |
| 90 cm to U/120 cm  | 2     | X | 0.50 | = | 1.00 | 37      | X | 0.25 | = | 9.25  |
| 120 cm to U/150 cm | 0     | X | 1.00 | = | 0.00 | 10      | X | 0.50 | = | 5.00  |
| 150 cm to U/180 cm | 3     | X | 2.00 | = | 6.00 | 6       | X | 1.00 | = | 6.00  |
| 180 cm and Above   | 0     | X | 3.00 | = | 0.00 | 3       | X | 1.50 | = | 4.50  |
|                    | 17    |   |      | = | 8.96 | 269     |   |      | = | 42.33 |

| 3rd. Class         | Sound |   |      |   |       | Unsound |   |      |   |       |
|--------------------|-------|---|------|---|-------|---------|---|------|---|-------|
| Under 60 cm        | 63    | X | 0.06 | = | 3.78  | 384     | X | 0.03 | = | 11.52 |
| 60 cm to U/90 cm   | 38    | X | 0.12 | = | 4.56  | 151     | X | 0.06 | = | 9.06  |
| 90 cm to U/120 cm  | 16    | X | 0.25 | = | 4.00  | 76      | X | 0.12 | = | 9.12  |
| 120 cm to U/150 cm | 1     | X | 0.50 | = | 0.50  | 19      | X | 0.25 | = | 4.75  |
| 150 cm to U/180 cm | 6     | X | 1.00 | = | 6.00  | 21      | X | 0.50 | = | 10.50 |
| 180 cm and Above   | 9     | X | 1.50 | = | 13.50 | 24      | X | 0.75 | = | 18.00 |
|                    | 133   |   |      | = | 32.34 | 675     |   |      | = | 62.95 |

|               |   |             |            |          |               |             |
|---------------|---|-------------|------------|----------|---------------|-------------|
| Total Sound   | = | 349         | Nos        | =        | 111.55        | Unit        |
| Total Unsound | = | 1291        | Nos        | =        | 177.11        | Unit        |
| <b>TOTAL</b>  |   | <b>1640</b> | <b>Nos</b> | <b>=</b> | <b>288.66</b> | <b>Unit</b> |

  
 23/7/18  
 Divisional Forest Officer,  
 Keonjhar Division.  
 Divisional Forest Officer  
 Keonjhar Division