

Appendix 1
(Referred to in para 1.8)

Method adopted by the consultant for Estimation of volume

The Cut Volume V_C is the volume between the base and the 3D terrain when the terrain is higher than the base.

$$\text{Cut Volume, } V_C = V_{C1} + V_{C2} + V_{C3} + \dots + V_{CN}$$

Fill volume V_F is the volume the base and the terrain when the terrain is lower than the base.

$$\text{Fill Volume, } V_F = V_{F1} + V_{F2} + V_{F3} + \dots + V_{FN}$$

The total volume is given by:

$$\text{Total Volume, } V_T = V_C + V_F$$

Lessee- wise details showing illegal excavation under Drone Survey

| Sl. No. | Name of the Lessee | Portion of Illegal Excavation | Terrain 3D area (sq. meter) | Cut Volume (cub. meter) | Fill Volume (cub. meter) | Total Volume (sq. meter) |
|---------|-------------------------|-------------------------------|-----------------------------|-------------------------|--------------------------|--------------------------|
| 1. | Shri Rupendra Tiwari | Illegal excavation-1 | 9374.52 | 543.61± 30.41 | -29725.40± 184.81 | -29181.79 ± 215.22 |
| | | Illegal excavation-2 | 6456.37 | 18.29± 2.28 | -28586± 160.74 | -28568.48 ± 163.02 |
| | | Total | 15830.89 | | | 57750.27 |
| 2. | HS Arora | Illegal excavation | 13892.17 | 361.62±16 | -76437.76 ± 359.61 | -76076.14 ± 375.61 |
| | | Total | 13234.55 | | | 76076.14 |
| 3. | Manilal Patel | Illegal excavation | 11195.20 | 5417.75± 73.37 | -52166.45± 167.56 | -46748.71± 240.92 |
| | | Total | 11195.20 | | | 46748.71 |
| 4. | Kumhari Sand Mine | Area-1 | 3154.05 | 30.49± 6.08 | - 1809.51 ± 96.83 | -1779.02 ± 102.90 |
| | | Area-2 | 2605.40 | 88.26± 10.64 | -1267.28 ± 73.46 | -1179.02 ± 84.10 |
| | | Total | 5759.45 | | | 2958.04 |
| 5. | Nava Raipur Murrum Site | Area-1 | 26299.36 | 168.75± 16.16 | - 71204.98 ± 970.37 | -71036.23 ± 986.53 |
| | | Area-2 | 2796.90 | 5.99±1.08 | -4049.62± 105.94 | -4043.63± 107.02 |
| | | Area-3 | 9770.94 | 10.05± 2.07 | -24458.94± 364.52 | -24448.89± 366.60 |
| | | Total | 38867.20 | | | 99528.78 |

Appendix 2
(Referred to in para 2.1.8)

District-wise details showing short levy of penalty against illegal mining

(₹ in lakh)

| Sl. No. | Name of District | Number of cases | Penalty to be levied/ collected as per rules | Penalty collected | Short levy of penalty |
|--------------------|------------------|-----------------|--|-------------------|-----------------------|
| 1. | Durg | 50 | 72.50 | 38.27 | 34.23 |
| 2. | Mungeli | 35 | 20.54 | 11.67 | 8.87 |
| 3. | Kawardha | 92 | 332.87 | 95.28 | 237.59 |
| 4. | Raipur | 108 | 274.42 | 109.26 | 165.16 |
| 5. | Balodabazar | 42 | 17.89 | 14.00 | 3.89 |
| 6. | Bilaspur | 331 | 566.69 | 158.59 | 408.10 |
| 7. | Janjgir-Champa | 57 | 30.68 | 18.39 | 12.29 |
| 8. | Kanker | 41 | 82.02 | 7.95 | 74.07 |
| 9. | Ambikapur | 29 | 71.56 | 10.90 | 60.66 |
| 10. | DGM | 7 | 13.88 | 6.63 | 7.25 |
| Grand Total | | 792 | 1483.05 | 470.94 | 1012.11 |

Appendix 3
(Referred to in para 2.1.8)

Short levy of penalty against illegal transportation

(₹ in lakh)

| Sl. No. | Name of District | Number of cases | Penalty to be levied/ collected as per rules | Penalty collected | Short levy of penalty |
|--------------------|------------------|-----------------|--|-------------------|-----------------------|
| 1. | Durg | 48 | 6.71 | 4.95 | 1.76 |
| 2. | Mungeli | 138 | 16.68 | 11.81 | 4.87 |
| 3. | Balodabazar | 5 | 0.74 | 0.67 | 0.07 |
| 4. | Bilaspur | 1735 | 128.17 | 109.17 | 19.00 |
| 5. | Janjgir-Champa | 6 | 0.92 | 0.37 | 0.55 |
| 6. | Kanker | 34 | 6.55 | 4.76 | 1.79 |
| 7. | Ambikapur | 778 | 72.39 | 61.93 | 10.46 |
| Grand Total | | 2744 | 232.16 | 193.66 | 38.50 |

Appendix 4
(Referred to in para 4.1.1)

Details of transportation of sand against Environmental Clearance (EC)

| Sl. No. | Name of District | Number of Cases | Minable quantity per year as per EC (in cubic meter) | Total minable quantity (in cubic meter) | Quantity transported in first year against EC (in cubic meter) |
|--------------------|------------------|-----------------|--|---|--|
| 1. | Mungeli | 3 | 69630 | 69630 | 2700 |
| 2. | Bilaspur | 12 | 536078 | 536078 | 105900 |
| 3. | Janjgir-Champa | 24 | 1969225 | 3004225 | 446050 |
| 4. | Balodabazar | 17 | 110900 | 110900 | 219100 |
| 5. | Raipur | 9 | 672200 | 672200 | 124350 |
| 6. | Kanker | 10 | 702500 | 702500 | 139920 |
| 7. | Ambikapur | 4 | 209178 | 209178 | 33100 |
| Grand Total | | 79 | 4269711 | 5304711 | 1071120 |

Appendix 5
(Referred to in para 4.1.2)

Details of removal permits of murrum

| Sl. No. | Name of District | Number of cases | Volume of material (in cubic meter) |
|--------------------|------------------|-----------------|-------------------------------------|
| 1. | Durg | 360 | 904896 |
| 2. | Mungeli | 37 | 435508 |
| 3. | Kawardha | 43 | 401450 |
| 4. | Raipur | 549 | 3037911 |
| 5. | Balodabazar | 21 | 359550 |
| 6. | Bilaspur | 114 | 2141200 |
| 7. | Janjgir-Champa | 63 | 364891 |
| 8. | Kanker | 32 | 753675 |
| 9. | Ambikapur | 16 | 333800 |
| Grand Total | | 1235 | 8732881 |

Appendix 6
(Referred to in para 5.2)

Year wise details of funds available and released from Trust Fund

(₹ in lakh)

| Sl No | Name of District | Year | Total Funds received | Total funds sanctioned for works | Total Funds released | Expenditure Amount | Balance Amount |
|-------|------------------|--------------|----------------------|----------------------------------|----------------------|--------------------|----------------|
| 1. | Durg | 2015-16 | 322 | 0 | 0 | 0 | 322 |
| | | 2016-17 | 2715 | 1403 | 1394 | 1241 | 153 |
| | | 2017-18 | 2862 | 4015 | 2936 | 2454 | 482 |
| | | 2018-19 | 3042 | 3199 | 2103 | 1418 | 685 |
| | | 2019-20 | 3529 | 2665 | 2337 | 2214 | 123 |
| | | 2020-21 | 4090 | 4898 | 3977 | 3469 | 508 |
| | | Total | 16560 | 16180 | 12747 | 10796 | 2273 |
| 2. | Mungeli | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 3.39 | 27.43 | 27.43 | 22.6 | 4.83 |
| | | 2017-18 | 117.01 | 679.37 | 679.37 | 370.98 | 308.39 |
| | | 2018-19 | 840.62 | 376.8 | 376.8 | 338.38 | 38.42 |
| | | 2019-20 | 144.63 | 333.77 | 333.77 | 229.41 | 104.36 |
| | | 2020-21 | 1429.88 | 868.43 | 868.43 | 544.87 | 323.56 |
| | | Total | 2535.53 | 2285.8 | 2285.8 | 1506.24 | 779.56 |
| 3. | Kawardha | 2015-16 | 141.17 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 766.27 | 821.31 | 877.57 | NA | 0 |
| | | 2017-18 | 642.23 | 1282.89 | 389.90 | NA | 0 |
| | | 2018-19 | 634.26 | 649.81 | 744.34 | NA | 0 |
| | | 2019-20 | 408.81 | 393.44 | 383.66 | NA | 0 |
| | | 2020-21 | 1210.5 | 361.95 | 423.58 | NA | 0 |
| | | Total | 3803.24 | 3509.40 | 2819.05 | - | 0 |
| 4. | Raipur | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 1981.25 | 2309.96 | 2092.65 | 2092.65 | 0 |
| | | 2017-18 | 3233.32 | 6143.72 | 5188.52 | 5188.52 | 0 |
| | | 2018-19 | 2318.81 | 602.87 | 535.49 | 535.49 | 0 |
| | | 2019-20 | 1440.13 | 272.58 | 270.37 | 270.37 | 0 |
| | | 2020-21 | 3497.62 | 1440.42 | 1097.14 | 1097.14 | 0 |
| | | Total | 12471.13 | 10769.55 | 9184.17 | 9184.17 | 0 |
| 5. | Balodabazar | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 5015.49 | 5563.80 | 4396.99 | 4381.55 | 15.44 |

| | | | | | | | |
|-----------|-----------------------|--------------|-----------------|-----------------|-----------------|-----------------|---------------|
| | | 2017-18 | 6807.60 | 6450.05 | 5228.53 | 5220.01 | 8.52 |
| | | 2018-19 | 5287.72 | 4662.90 | 3472.52 | 3466.90 | 5.62 |
| | | 2019-20 | 7529.91 | 1001.40 | 415.95 | 414.37 | 1.58 |
| | | 2020-21 | 5960.67 | 3363.73 | 2158.61 | 1997.55 | 161.06 |
| | | Total | 30600.89 | 21041.88 | 15672.60 | 15480.38 | 192.22 |
| 6. | Bilaspur | 2015-16 | 1479.57 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 5174.38 | 9819.96 | 6650.99 | 6650.99 | 0 |
| | | 2017-18 | 11946.02 | 6895.51 | 4731.98 | 4731.98 | 0 |
| | | 2018-19 | 4457.83 | 8383.79 | 5956.79 | 5956.79 | 0 |
| | | 2019-20 | 9950.61 | 737.50 | 548.86 | 548.86 | 0 |
| | | 2020-21 | 7646.84 | 4241.19 | 2488.21 | 2488.21 | 0 |
| | | Total | 40655.25 | 30077.95 | 20376.83 | 20376.83 | 0 |
| 7. | Janjgir-Champa | 2015-16 | 1972 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 5750 | 4808.88 | 3779.69 | 3779.69 | 0 |
| | | 2017-18 | 14490 | 17462.52 | 13398.41 | 13398.41 | 0 |
| | | 2018-19 | 4757 | 6958 | 5761.14 | 5761.14 | 0 |
| | | 2019-20 | 13618 | 7519.39 | 6137.69 | 6137.69 | 0 |
| | | 2020-21 | 10130 | 15323.54 | 12147.08 | 12147.08 | 0 |
| | | Total | 50717 | 52072.33 | 41224.01 | 41224.01 | 0 |
| 8. | Kanker | 2015-16 | 196.49 | 0 | 0 | 0 | 196.49 |
| | | 2016-17 | 1770.44 | 1089.23 | 1006.58 | 1006.58 | 0 |
| | | 2017-18 | 2771.16 | 3779.02 | 3457.14 | 3457.14 | 0 |
| | | 2018-19 | 3653.24 | 1993.37 | 1666.43 | 1666.43 | 0 |
| | | 2019-20 | 6126.86 | 4834.67 | 3881.02 | 3881.02 | 0 |
| | | 2020-21 | 7272.40 | 7506.50 | 1902.30 | 1902.30 | 0 |
| | | Total | 21790.59 | 19202.79 | 11913.47 | 11913.47 | 196.49 |
| 9. | Ambikapur | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 3142 | 2099.14 | 1789.27 | 1789.27 | 0 |
| | | 2017-18 | 2560 | 5192.64 | 4744.06 | 4744.06 | 0 |
| | | 2018-19 | 2439 | 1828.97 | 1775.42 | 1775.42 | 0 |
| | | 2019-20 | 2485 | 1158.23 | 1024.07 | 1024.07 | 0 |
| | | 2020-21 | 2124.42 | 1255.27 | 1066.61 | 1066.61 | 0 |
| | | Total | 12750.42 | 11534.25 | 10399.43 | 10399.43 | 0 |

Appendix 7
(Referred to in para 5.2.1)

Loss of interest due to non- availing of sweep/flexi deposit/multi option deposit facility in bank account

(₹ in lakh)

| Sl. No. | Name of District | District Mineral Foundation Contribution Fund account | District Mineral Foundation Trust Fund account | Total |
|--------------------|------------------|---|--|----------------|
| 1 | Durg | 3.30 | 66.48 | 69.78 |
| 2 | Mungeli | 0.91 | 20.77 | 21.68 |
| 3 | Kawardha | 13.60 | 1.12 | 14.72 |
| 4 | Raipur | 17.15 | 24.54 | 41.69 |
| 5 | Balodabazar | 93.25 | 331.27 | 424.52 |
| 6 | Bilaspur | 56.44 | 611.55 | 667.99 |
| 7 | Janjgir-Champa | 88.30 | 904.84 | 993.14 |
| 8 | Kanker | 86.77 | 67.15 | 153.92 |
| 9 | Ambikapur | 42.91 | 56.62 | 99.53 |
| Grand Total | | 402.65 | 2084.34 | 2486.97 |

(Loss calculated at difference in rate of interest ranging from 0.15 per cent to 2.25 per cent)

Appendix 8
(Referred to in para 5.2.2)

Expenditure incurred from Trust Fund in violation to the directives of the Government

(₹ in crore)

| Sl. No. | Name of District | Total no. of works sanctioned | Value of works sanctioned | Amount released | No. of ineligible works | Amount sanctioned |
|--------------|------------------|-------------------------------|---------------------------|-----------------|-------------------------|-------------------|
| 1. | Durg | 3699 | 161.80 | 127.47 | 07 | 2.21 |
| 2. | Mungeli | 251 | 22.86 | 22.86 | 09 | 0.96 |
| 3. | Kawardha | 261 | 35.09 | 28.19 | 12 | 1.66 |
| 4. | Raipur | 856 | 107.70 | 91.84 | 75 | 3.25 |
| 5. | Balodabazar | 3731 | 210.42 | 156.73 | 13 | 1.03 |
| 6. | Bilaspur | 1547 | 300.78 | 203.77 | 05 | 0.45 |
| 7. | Janjgir-Champa | 2208 | 520.72 | 412.24 | 25 | 1.98 |
| 8. | Kanker | 1627 | 192.03 | 119.13 | 12 | 0.52 |
| 9. | Ambikapur | 1507 | 115.34 | 103.99 | 11 | 0.63 |
| Total | | 15687 | 1666.74 | 1266.22 | 169 | 12.69 |

Appendix 9*(Referred to in para 5.2.3)***Non-recovery of unspent funds from implementing agencies**

| Sl. No. | | No. of works sanctioned | Amount released (₹ in crore) | No. of works completed | Completed works against which recovery is due | | | | Cancelled works against which recovery is due | | | Total balance amount (₹ in lakh) |
|--------------|-------------|-------------------------|------------------------------|------------------------|---|-----------------------------|--------------------------------|----------------------------|---|-----------------------------|----------------------------|----------------------------------|
| | | | | | No. of works | Amount released (₹ in lakh) | Expenditure amount (₹ in lakh) | Balance amount (₹ in lakh) | No. of works | Amount released (₹ in lakh) | Balance amount (₹ in lakh) | |
| 1. | Durg | 3699 | 127.47 | 3195 | 6 | 208.65 | 202.82 | 5.83 | 90 | 499.45 | 499.45 | 505.28 |
| 2. | Kawardha | 261 | 28.19 | 187 | 15 | 138.63 | 126.08 | 12.55 | 2 | 3.13 | 3.13 | 15.68 |
| 3. | Balodabazar | 3731 | 156.73 | 2773 | - | - | - | - | 13 | 61.97 | 61.97 | 61.97 |
| 4. | Bilaspur | 1547 | 203.77 | 779 | - | - | - | - | 2 | 178.60 | 178.60 | 178.60 |
| 5. | Kanker | 1627 | 119.13 | 1061 | 14 | 493.38 | 464.56 | 28.82 | 5 | 9.42 | 9.42 | 38.24 |
| Total | | 10865 | 635.29 | 7995 | 35 | 840.66 | 793.46 | 47.20 | 112 | 752.57 | 752.57 | 799.77 |

Appendix 10
(Referred to in para 5.3)

Year wise details of works taken up by DMFTs

(₹ in crore)

| Sl. No. | Name of District | Year | Total value of works sanctioned | Total no of works sanctioned | Total no of works cancelled | Total no of works taken up | Total no of works completed |
|---------|------------------|--------------|---------------------------------|------------------------------|-----------------------------|----------------------------|-----------------------------|
| 1. | Durg | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 14.03 | 438 | 5 | 433 | 433 |
| | | 2017-18 | 40.15 | 2067 | 123 | 1944 | 1944 |
| | | 2018-19 | 31.99 | 407 | 79 | 328 | 284 |
| | | 2019-20 | 26.65 | 173 | 4 | 169 | 169 |
| | | 2020-21 | 48.98 | 614 | 21 | 593 | 365 |
| | | Total | 161.80 | 3699 | 232 | 3467 | 3195 |
| 2. | Mungeli | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 0.27 | 8 | 1 | 7 | 7 |
| | | 2017-18 | 6.79 | 79 | 21 | 58 | 36 |
| | | 2018-19 | 3.77 | 33 | 2 | 31 | 29 |
| | | 2019-20 | 3.34 | 40 | 3 | 37 | 18 |
| | | 2020-21 | 8.69 | 91 | 2 | 89 | 5 |
| | | Total | 22.86 | 251 | 29 | 222 | 95 |
| 3. | Kawardha | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 8.21 | 35 | 4 | 31 | 30 |
| | | 2017-18 | 12.83 | 126 | 39 | 87 | 83 |
| | | 2018-19 | 6.50 | 42 | 7 | 35 | 33 |
| | | 2019-20 | 3.93 | 37 | 3 | 34 | 28 |
| | | 2020-21 | 3.62 | 21 | 0 | 21 | 13 |
| | | Total | 35.09 | 261 | 53 | 208 | 187 |
| 4. | Raipur | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 23.10 | 278 | 0 | 278 | 275 |
| | | 2017-18 | 61.44 | 402 | 6 | 396 | 371 |
| | | 2018-19 | 6.03 | 45 | 0 | 45 | 42 |
| | | 2019-20 | 2.73 | 13 | 0 | 13 | 13 |
| | | 2020-21 | 14.40 | 118 | 13 | 105 | 29 |
| | | Total | 107.70 | 856 | 19 | 837 | 730 |
| 5. | Balodabazar | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 55.64 | 889 | 47 | 842 | 748 |
| | | 2017-18 | 64.50 | 1249 | 101 | 1148 | 1061 |
| | | 2018-19 | 46.63 | 972 | 212 | 760 | 635 |

| | | | | | | | |
|--------------------|----------------------------|--------------|----------------|--------------|-------------|--------------|--------------|
| | | 2019-20 | 10.01 | 104 | 19 | 85 | 56 |
| | | 2020-21 | 33.64 | 517 | 9 | 508 | 273 |
| | | Total | 210.42 | 3731 | 388 | 3343 | 2773 |
| 6. | Bilaspur | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 98.20 | 649 | 2 | 647 | 438 |
| | | 2017-18 | 68.96 | 544 | 2 | 542 | 233 |
| | | 2018-19 | 83.84 | 198 | 0 | 198 | 76 |
| | | 2019-20 | 7.37 | 13 | 0 | 13 | 1 |
| | | 2020-21 | 42.41 | 143 | 1 | 142 | 31 |
| | | Total | 300.78 | 1547 | 5 | 1542 | 779 |
| 7. | Janjgir- Champa | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 48.08 | 152 | 1 | 151 | 121 |
| | | 2017-18 | 174.62 | 481 | 98 | 383 | 297 |
| | | 2018-19 | 69.58 | 184 | 55 | 129 | 72 |
| | | 2019-20 | 75.19 | 485 | 0 | 485 | 371 |
| | | 2020-21 | 153.25 | 906 | 22 | 884 | 396 |
| | | Total | 520.72 | 2208 | 176 | 2032 | 1257 |
| 8. | Kanker | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 10.89 | 206 | 0 | 206 | 206 |
| | | 2017-18 | 37.79 | 322 | 2 | 320 | 317 |
| | | 2018-19 | 19.93 | 237 | 8 | 229 | 209 |
| | | 2019-20 | 48.35 | 241 | 16 | 225 | 106 |
| | | 2020-21 | 75.07 | 621 | 2 | 619 | 223 |
| | | Total | 192.03 | 1627 | 28 | 1599 | 1061 |
| 9. | Ambikapur | 2015-16 | 0 | 0 | 0 | 0 | 0 |
| | | 2016-17 | 20.99 | 529 | 47 | 482 | 395 |
| | | 2017-18 | 51.93 | 601 | 124 | 477 | 407 |
| | | 2018-19 | 18.29 | 167 | 5 | 162 | 131 |
| | | 2019-20 | 11.58 | 81 | 0 | 81 | 60 |
| | | 2020-21 | 12.55 | 129 | 0 | 129 | 25 |
| | | Total | 115.34 | 1507 | 176 | 1331 | 1018 |
| Grand Total | | | 1666.74 | 15687 | 1106 | 14581 | 11095 |