## Annexure - I

## (Referred to in paragraph No. 12)

## Audit had taken the following assumptions for calculation of financial implications

1. PSC for R\&RS fields would have been signed in 2001 alongwith PSCs for 9 other small sized fields which were signed in February 2001. All these fields were part of the CCEA's approval for conclusion of contracts for 11 small sized fields apart from R\&RS fields.
2. Development of production facilities and commencement of commercial production from R\&RS fields would have taken four years eight months (eight out of nine fields started production and maximum time taken to start production in these fields was four years eight months) from October 2005.
3. MoPNG, in its reply to an audit query, stated (May 2015) that it was not in a position to provide details of quantities of oil and gas to be produced from R\&RS fields. Audit has, therefore, assumed that R\&RS fields would have been developed and production profile for the R-12, Basal Clastics, R-10, R-7 and R-9 structures would be as indicated in the proposed Plan of Development (PoD) submitted by CoSB to GoI, after making required capital investment and incurring the required cost of production. Accordingly, commencement of commercial production of Crude Oil and Nature Gas from various constituent fields of R\&RS fields would have been as under:
4. $1^{\text {st }}$ Year
R-12 field
5. $2^{\text {nd }}$ Year $\quad \mathrm{R}-10$ field and Basal Clastics
6. $3^{\text {rd }}$ Year
R-7 field and R-9 field
From October 2005.
From 2006-07.
From2007-08.
7. Though annual production of Crude Oil and Natural Gas as projected in PoD by CoSB submitted to GoI was lower than the daily production (shown in PoD ) multiplied by number of days in the relevant year, Audit has, to be on conservative side, adopted the said lower figures of annual production depicted in PoD. It was assumed that the reduced annual figures of production so adopted would have factored into (a) normative loss of Crude Oil and flaring of Natural Gas that would have occurred during petroleum operations and (b) loss of production due to shut down of production facilities for preventive maintenance and/or normal repairs and maintenance etc.
8. Crude Oil prices have been arrived at after adopting average monthly price of the Brent Crude Oil (specification as mentioned in the draft PSC and bidding documents) from October 2005 to March 2015, (source:http://www.indexmundi.com/commodities/?commodity=crude-oil\&months=360 \& commodity= crude-oil-brent).
9. Sale price of Natural Gas = US\$ 3.11 per MMBTU (as per draft PSC for R\&RS fields).
10. In the absence of data regarding post wellhead expenses, sale price of Natural Gas has been assumed as the wellhead price.
11. In case of Crude Oil, royalty at the rate of ₹ 528 per metric tonne and cess at the rate of $₹ 900$ per metric tonne have been assumed, as envisaged in the draft PSC.
12. In case of Natural Gas, royalty has been assumed at the rate of 10 per cent of the sale price of Natural Gas as per draft PSC.
13. In the absence of information about year wise estimated operating expenditure, an estimate for profit petroleum receivable by GoI could not be made.

## Annexure II

(Referred to in paragraph No.12)
Part A - Quantity and Value of Crude Oil Production Deferred from October 2005 to March 2015 and Consequent Deferment of related Royalty and Cess
(To be read in conjunction with the assumptions stated in Annexure I)

| Month | Production (in million bbls) <br> (Annual Production/ 12) | Rate of Brent crude (In USD/bbl.) | Value of <br> Crude Oil <br> (in million <br> USD) <br> $\{$ Col. $2 \times$ <br> Col. 3$\}$ | Exchange rate 1 USD to ₹ | Value of Crude Oil (in ₹ crore) \{Col. $4 \times$ Col.5/10\} | $\begin{gathered} \text { Production(in } \\ \text { MT) } \\ \text { (Ibbl }=0.131 \\ \text { MT) } \\ \{\text { Col. } 2 \times 0.131 \\ \times 1000000\} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Royalty }+ \\ \text { Cess } \\ \text { (in ₹ crore) } \\ \{\text { Col.7 x } \\ (528+900)\} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 | Col. 8 |
| October-05 | 0.121 | 58.52 | 7.061 | 44.82 | 31.65 | 15807 | 2.26 |
| November-05 | 0.121 | 55.53 | 6.701 | 45.73 | 30.64 | 15807 | 2.26 |
| December-05 | 0.121 | 56.75 | 6.848 | 45.65 | 31.26 | 15807 | 2.26 |
| January-06 | 0.121 | 63.57 | 7.671 | 44.40 | 34.06 | 15807 | 2.26 |
| February-06 | 0.121 | 59.92 | 7.230 | 44.33 | 32.05 | 15807 | 2.26 |
| March-06 | 0.121 | 62.25 | 7.512 | 44.48 | 33.41 | 15807 | 2.26 |
| April-06 | 0.121 | 70.44 | 8.500 | 44.95 | 38.21 | 15807 | 2.26 |
| May-06 | 0.121 | 70.19 | 8.470 | 45.41 | 38.46 | 15807 | 2.26 |
| June-06 | 0.121 | 68.86 | 8.309 | 46.06 | 38.27 | 15807 | 2.26 |
| July-06 | 0.121 | 73.90 | 8.917 | 46.46 | 41.43 | 15807 | 2.26 |
| August-06 | 0.121 | 73.61 | 8.882 | 46.54 | 41.34 | 15807 | 2.26 |
| September-06 | 0.121 | 62.77 | 7.574 | 46.12 | 34.93 | 15807 | 2.26 |
| October-06 | 0.233 | 58.38 | 13.627 | 45.47 | 61.96 | 30578 | 4.37 |
| November-06 | 0.233 | 58.48 | 13.650 | 44.85 | 61.22 | 30578 | 4.37 |
| December-06 | 0.233 | 62.31 | 14.544 | 44.63 | 64.92 | 30578 | 4.37 |
| January-07 | 0.233 | 54.30 | 12.675 | 44.33 | 56.19 | 30578 | 4.37 |
| February-07 | 0.233 | 57.76 | 13.482 | 44.16 | 59.54 | 30578 | 4.37 |
| March-07 | 0.233 | 62.14 | 14.505 | 44.03 | 63.86 | 30578 | 4.37 |
| April-07 | 0.233 | 67.40 | 15.732 | 42.15 | 66.31 | 30578 | 4.37 |
| May-07 | 0.233 | 67.48 | 15.751 | 40.78 | 64.23 | 30578 | 4.37 |
| June-07 | 0.233 | 71.32 | 16.647 | 40.77 | 67.87 | 30578 | 4.37 |
| July-07 | 0.233 | 77.20 | 18.020 | 40.42 | 72.83 | 30578 | 4.37 |
| August-07 | 0.233 | 70.80 | 16.526 | 40.82 | 67.45 | 30578 | 4.37 |
| September-07 | 0.233 | 77.13 | 18.003 | 40.34 | 72.63 | 30578 | 4.37 |
| October-07 | 0.667 | 83.04 | 55.408 | 39.51 | 218.94 | 87410 | 12.48 |
| November-07 | 0.667 | 92.53 | 61.741 | 39.44 | 243.51 | 87410 | 12.48 |
| December-07 | 0.667 | 91.45 | 61.020 | 39.44 | 240.66 | 87410 | 12.48 |
| January-08 | 0.667 | 91.92 | 61.334 | 39.37 | 241.50 | 87410 | 12.48 |
| February-08 | 0.667 | 94.82 | 63.269 | 39.73 | 251.36 | 87410 | 12.48 |
| March-08 | 0.667 | 103.28 | 68.914 | 40.36 | 278.11 | 87410 | 12.48 |
| April-08 | 0.667 | 110.44 | 73.691 | 40.03 | 294.97 | 87410 | 12.48 |
| May-08 | 0.667 | 123.94 | 82.699 | 42.13 | 348.37 | 87410 | 12.48 |
| June-08 | 0.667 | 133.05 | 88.778 | 42.82 | 380.15 | 87410 | 12.48 |
| July-08 | 0.667 | 133.90 | 89.345 | 42.84 | 382.72 | 87410 | 12.48 |
| August-08 | 0.667 | 113.85 | 75.966 | 42.94 | 326.19 | 87410 | 12.48 |
| September-08 | 0.667 | 99.06 | 66.098 | 45.56 | 301.17 | 87410 | 12.48 |


| Month | Production (in million bbls) <br> (Annual Production/ 12) | Rate of Brent crude (In USD/bbl.) | Value of <br> Crude Oil <br> (in million <br> USD) <br> $\{$ Col. $\mathbf{x}$ <br> Col. 3$\}$ | Exchange rate <br> 1 USD to ₹ | Value of Crude Oil (in ₹ crore) \{Col. 4 x Col.5/10\} | $\begin{gathered} \hline \text { Production(in } \\ \text { MT) } \\ \text { (Ibbl }=0.131 \\ \text { MT) } \\ \{\text { Col. } 2 \times 0.131 \\ \times 1000000\} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Royalty }+ \\ \text { Cess } \\ \text { (in ₹ crore) } \\ \{\text { Col.7 x } \\ (528+900)\} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| October-08 | 0.640 | 72.84 | 46.587 | 48.64 | 226.61 | 83785 | 11.96 |
| November-08 | 0.640 | 53.24 | 34.051 | 49.00 | 166.86 | 83785 | 11.96 |
| December-08 | 0.640 | 41.58 | 26.594 | 48.64 | 129.36 | 83785 | 11.96 |
| January-09 | 0.640 | 44.86 | 28.692 | 48.83 | 140.11 | 83785 | 11.96 |
| February-09 | 0.640 | 43.24 | 27.656 | 49.22 | 136.13 | 83785 | 11.96 |
| March-09 | 0.640 | 46.84 | 29.958 | 51.23 | 153.48 | 83785 | 11.96 |
| April-09 | 0.640 | 50.85 | 32.523 | 50.06 | 162.82 | 83785 | 11.96 |
| May-09 | 0.640 | 57.94 | 37.057 | 48.53 | 179.85 | 83785 | 11.96 |
| June-09 | 0.640 | 68.59 | 43.869 | 47.77 | 209.58 | 83785 | 11.96 |
| July-09 | 0.640 | 64.92 | 41.522 | 48.48 | 201.28 | 83785 | 11.96 |
| August-09 | 0.640 | 72.50 | 46.370 | 48.34 | 224.14 | 83785 | 11.96 |
| September-09 | 0.640 | 67.69 | 43.293 | 48.44 | 209.71 | 83785 | 11.96 |
| October-09 | 0.617 | 73.19 | 45.122 | 46.72 | 210.81 | 80762 | 11.53 |
| November-09 | 0.617 | 77.04 | 47.495 | 46.57 | 221.18 | 80762 | 11.53 |
| December-09 | 0.617 | 74.67 | 46.034 | 46.63 | 214.66 | 80762 | 11.53 |
| January-10 | 0.617 | 76.37 | 47.082 | 45.96 | 216.40 | 80762 | 11.53 |
| February-10 | 0.617 | 74.31 | 45.812 | 46.33 | 212.23 | 80762 | 11.53 |
| March-10 | 0.617 | 79.27 | 48.870 | 45.50 | 222.35 | 80762 | 11.53 |
| April-10 | 0.617 | 84.93 | 52.359 | 44.50 | 232.99 | 80762 | 11.53 |
| May-10 | 0.617 | 76.25 | 47.008 | 45.80 | 215.32 | 80762 | 11.53 |
| June-10 | 0.617 | 74.84 | 46.139 | 46.56 | 214.84 | 80762 | 11.53 |
| July-10 | 0.617 | 74.74 | 46.077 | 46.84 | 215.81 | 80762 | 11.53 |
| August-10 | 0.617 | 76.69 | 47.279 | 46.57 | 220.17 | 80762 | 11.53 |
| September-10 | 0.617 | 77.79 | 47.958 | 46.06 | 220.89 | 80762 | 11.53 |
| October-10 | 0.614 | 82.92 | 50.927 | 44.41 | 226.18 | 80456 | 11.49 |
| November-10 | 0.614 | 85.67 | 52.616 | 45.02 | 236.86 | 80456 | 11.49 |
| December-10 | 0.614 | 91.80 | 56.381 | 45.16 | 254.61 | 80456 | 11.49 |
| January-11 | 0.614 | 96.29 | 59.138 | 45.39 | 268.45 | 80456 | 11.49 |
| February-11 | 0.614 | 103.96 | 63.849 | 45.44 | 290.11 | 80456 | 11.49 |
| March-11 | 0.614 | 114.44 | 70.285 | 44.99 | 316.21 | 80456 | 11.49 |
| April-11 | 0.614 | 123.15 | 75.635 | 44.37 | 335.58 | 80456 | 11.49 |
| May-11 | 0.614 | 114.46 | 70.298 | 44.90 | 315.67 | 80456 | 11.49 |
| June-11 | 0.614 | 113.76 | 69.868 | 44.85 | 313.37 | 80456 | 11.49 |
| July-11 | 0.614 | 116.46 | 71.526 | 44.42 | 317.69 | 80456 | 11.49 |
| August-11 | 0.614 | 110.08 | 67.607 | 45.28 | 306.12 | 80456 | 11.49 |
| September-11 | 0.614 | 110.88 | 68.099 | 47.64 | 324.41 | 80456 | 11.49 |
| October-11 | 0.562 | 109.47 | 61.531 | 49.26 | 303.08 | 73633 | 10.51 |
| November-11 | 0.562 | 110.50 | 62.110 | 50.84 | 315.79 | 73633 | 10.51 |
| December-11 | 0.562 | 107.97 | 60.688 | 52.67 | 319.63 | 73633 | 10.51 |
| January-12 | 0.562 | 110.99 | 62.386 | 51.35 | 320.33 | 73633 | 10.51 |
| February-12 | 0.562 | 119.70 | 67.281 | 49.16 | 330.78 | 73633 | 10.51 |
| March-12 | 0.562 | 124.93 | 70.221 | 50.32 | 353.37 | 73633 | 10.51 |

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| Month | Production (in million bbls) <br> (Annual <br> Production/ 12) | Rate of Brent crude (In USD/bbl.) | Value of <br> Crude Oil <br> (in million <br> USD) <br> $\{$ Col. $2 \times$ <br> Col. 3$\}$ | Exchange rate 1 USD to ₹ | Value of Crude Oil (in ₹ crore) \{Col. 4 x Col.5/10\} | $\begin{gathered} \hline \text { Production(in } \\ \text { MT) } \\ \text { (Ibbl }=0.131 \\ \text { MT) } \\ \{\text { Col. } 2 \times 0.131 \\ \times 1000000\} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Royalty }+ \\ \text { Cess } \\ \text { (in ₹ crore) } \\ \{\text { Col.7 x } \\ (528+900)\} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| April-12 | 0.562 | 120.59 | 67.782 | 51.80 | 351.13 | 73633 | 10.51 |
| May-12 | 0.562 | 110.52 | 62.121 | 54.47 | 338.40 | 73633 | 10.51 |
| June-12 | 0.562 | 95.59 | 53.730 | 56.03 | 301.05 | 73633 | 10.51 |
| July-12 | 0.562 | 103.14 | 57.973 | 55.49 | 321.72 | 73633 | 10.51 |
| August-12 | 0.562 | 113.34 | 63.707 | 55.56 | 353.95 | 73633 | 10.51 |
| September-12 | 0.562 | 113.38 | 63.729 | 54.61 | 348.00 | 73633 | 10.51 |
| October-12 | 0.536 | 111.97 | 60.053 | 53.02 | 318.43 | 70260 | 10.03 |
| November-12 | 0.536 | 109.71 | 58.841 | 54.78 | 322.31 | 70260 | 10.03 |
| December-12 | 0.536 | 109.64 | 58.804 | 54.65 | 321.35 | 70260 | 10.03 |
| January-13 | 0.536 | 112.93 | 60.568 | 54.32 | 328.99 | 70260 | 10.03 |
| February-13 | 0.536 | 116.46 | 62.461 | 53.77 | 335.88 | 70260 | 10.03 |
| March-13 | 0.536 | 109.24 | 58.589 | 54.40 | 318.75 | 70260 | 10.03 |
| April-13 | 0.536 | 102.88 | 55.178 | 54.38 | 300.03 | 70260 | 10.03 |
| May-13 | 0.536 | 103.03 | 55.258 | 55.01 | 303.98 | 70260 | 10.03 |
| June-13 | 0.536 | 103.11 | 55.301 | 58.40 | 322.94 | 70260 | 10.03 |
| July-13 | 0.536 | 107.72 | 57.774 | 59.78 | 345.35 | 70260 | 10.03 |
| August-13 | 0.536 | 110.96 | 59.512 | 63.21 | 376.17 | 70260 | 10.03 |
| September-13 | 0.536 | 111.62 | 59.866 | 63.75 | 381.66 | 70260 | 10.03 |
| October-13 | 0.466 | 109.48 | 50.999 | 61.62 | 314.24 | 61024 | 8.71 |
| November-13 | 0.466 | 108.08 | 50.347 | 62.63 | 315.34 | 61024 | 8.71 |
| December-13 | 0.466 | 110.63 | 51.535 | 61.91 | 319.06 | 61024 | 8.71 |
| January-14 | 0.466 | 107.57 | 50.110 | 62.08 | 311.06 | 61024 | 8.71 |
| February-14 | 0.466 | 108.81 | 50.687 | 62.25 | 315.55 | 61024 | 8.71 |
| March-14 | 0.466 | 107.41 | 50.035 | 61.01 | 305.28 | 61024 | 8.71 |
| April-14 | 0.466 | 107.88 | 50.254 | 60.36 | 303.32 | 61024 | 8.71 |
| May-14 | 0.466 | 109.68 | 51.093 | 59.31 | 303.00 | 61024 | 8.71 |
| June-14 | 0.466 | 111.87 | 52.113 | 59.73 | 311.27 | 61024 | 8.71 |
| July-14 | 0.466 | 106.98 | 49.835 | 60.06 | 299.30 | 61024 | 8.71 |
| August-14 | 0.466 | 101.92 | 47.478 | 60.90 | 289.12 | 61024 | 8.71 |
| September-14 | 0.466 | 97.34 | 45.344 | 60.86 | 275.99 | 61024 | 8.71 |
| October-14 | 0.449 | 87.27 | 39.141 | 61.34 | 240.10 | 58754 | 8.39 |
| November-14 | 0.449 | 78.44 | 35.180 | 61.70 | 217.08 | 58754 | 8.39 |
| December-14 | 0.449 | 62.16 | 27.879 | 62.75 | 174.95 | 58754 | 8.39 |
| January-15 | 0.449 | 48.42 | 21.716 | 62.23 | 135.13 | 58754 | 8.39 |
| February-15 | 0.449 | 57.93 | 25.982 | 62.04 | 161.18 | 58754 | 8.39 |
| March-15 | 0.449 | 55.79 | 25.022 | 62.45 | 156.26 | 58754 | 8.39 |
| Total: | 56.166 |  | 5136.95 |  | 25655.51 | 7357104 | 1050.42 |
| Rounded off to | 56 |  | 5135 |  | 25650 | 737100 | 1050 |

Part B - Quantity and Value of Natural Gas Production Deferred from October 2005 to March 2015 and Consequent Deferment of related Royalty
(To be read in conjunction with the assumptions stated in Annexure I)

| Month | Production (in million metric standard cubic metres i.e mmsm ${ }^{3}$ ) <br> (Annual <br> Production/12) | $\begin{gathered} \text { Production } \\ \text { (in MMBTU) } \\ \left(1 \mathrm{~m}^{3}=\right. \\ 0.0397) \\ \{\text { Col. } 2 \mathrm{x} \\ 0.0397 \text { BTU\} } \end{gathered}$ | Value of Natural Gas (in million USD) @ USD <br> 3.11 per MMBTU \{Col. $3 \times 3.11\}$ | $\begin{aligned} & \text { Exchange } \\ & \text { rate } \\ & 1 \text { USD to ₹ } \end{aligned}$ | Value of Natural Gas (₹ in crore) \{Col. $4 \times$ Col.5\}/10 | Royalty @ 10\% of Gas Value (₹ in crore) \{Col. $6 \times 10 \%$ \} |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 |
| October-05 | 11.48 | 0.46 | 1.42 | 44.82 | 6.35 | 0.64 |
| November-05 | 11.48 | 0.46 | 1.42 | 45.73 | 6.48 | 0.65 |
| December-05 | 11.48 | 0.46 | 1.42 | 45.65 | 6.47 | 0.65 |
| January-06 | 11.48 | 0.46 | 1.42 | 44.40 | 6.29 | 0.63 |
| February-06 | 11.48 | 0.46 | 1.42 | 44.33 | 6.28 | 0.63 |
| March-06 | 11.48 | 0.46 | 1.42 | 44.48 | 6.30 | 0.63 |
| April-06 | 11.48 | 0.46 | 1.42 | 44.95 | 6.37 | 0.64 |
| May-06 | 11.48 | 0.46 | 1.42 | 45.41 | 6.44 | 0.64 |
| June-06 | 11.48 | 0.46 | 1.42 | 46.06 | 6.53 | 0.65 |
| July-06 | 11.48 | 0.46 | 1.42 | 46.46 | 6.58 | 0.66 |
| August-06 | 11.48 | 0.46 | 1.42 | 46.54 | 6.60 | 0.66 |
| September-06 | 11.48 | 0.46 | 1.42 | 46.12 | 6.54 | 0.65 |
| October-06 | 7.45 | 0.30 | 0.92 | 45.47 | 4.18 | 0.42 |
| November-06 | 7.45 | 0.30 | 0.92 | 44.85 | 4.12 | 0.41 |
| December-06 | 7.45 | 0.30 | 0.92 | 44.63 | 4.10 | 0.41 |
| January-07 | 7.45 | 0.30 | 0.92 | 44.33 | 4.08 | 0.41 |
| February-07 | 7.45 | 0.30 | 0.92 | 44.16 | 4.06 | 0.41 |
| March-07 | 7.45 | 0.30 | 0.92 | 44.03 | 4.05 | 0.40 |
| April-07 | 7.45 | 0.30 | 0.92 | 42.15 | 3.88 | 0.39 |
| May-07 | 7.45 | 0.30 | 0.92 | 40.78 | 3.75 | 0.37 |
| June-07 | 7.45 | 0.30 | 0.92 | 40.77 | 3.75 | 0.37 |
| July-07 | 7.45 | 0.30 | 0.92 | 40.42 | 3.72 | 0.37 |
| August-07 | 7.45 | 0.30 | 0.92 | 40.82 | 3.75 | 0.38 |
| September-07 | 7.45 | 0.30 | 0.92 | 40.34 | 3.71 | 0.37 |
| October-07 | 9.12 | 0.36 | 1.13 | 39.51 | 4.45 | 0.45 |
| November-07 | 9.12 | 0.36 | 1.13 | 39.44 | 4.44 | 0.44 |
| December-07 | 9.12 | 0.36 | 1.13 | 39.44 | 4.44 | 0.44 |
| January-08 | 9.12 | 0.36 | 1.13 | 39.37 | 4.44 | 0.44 |
| February-08 | 9.12 | 0.36 | 1.13 | 39.73 | 4.48 | 0.45 |
| March-08 | 9.12 | 0.36 | 1.13 | 40.36 | 4.55 | 0.45 |
| April-08 | 9.12 | 0.36 | 1.13 | 40.03 | 4.51 | 0.45 |
| May-08 | 9.12 | 0.36 | 1.13 | 42.13 | 4.75 | 0.47 |
| June-08 | 9.12 | 0.36 | 1.13 | 42.82 | 4.82 | 0.48 |
| July-08 | 9.12 | 0.36 | 1.13 | 42.84 | 4.83 | 0.48 |
| August-08 | 9.12 | 0.36 | 1.13 | 42.94 | 4.84 | 0.48 |
| September-08 | 9.12 | 0.36 | 1.13 | 45.56 | 5.13 | 0.51 |
| October-08 | 8.83 | 0.35 | 1.09 | 48.64 | 5.30 | 0.53 |
| November-08 | 8.83 | 0.35 | 1.09 | 49.00 | 5.34 | 0.53 |

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| Month | Production (in million metric standard cubic metres i.e mmsm ${ }^{3}$ ) <br> (Annual <br> Production/12) | $\begin{gathered} \text { Production } \\ \text { (in MMBTU) } \\ \left(1 \mathrm{~m}^{3}=\right. \\ 0.0397) \\ \{\text { Col. } 2 \mathrm{x} \\ 0.0397 \text { BTU }\} \end{gathered}$ | Value of Natural Gas (in million USD) @ USD <br> 3.11 per MMBTU \{Col. $3 \times 3.11\}$ | $\begin{aligned} & \text { Exchange } \\ & \text { rate } \\ & 1 \text { USD to ₹ } \end{aligned}$ | Value of Natural Gas (₹ in crore) \{Col. $4 \times$ Col.5\}/10 | Royalty @ 10\% of Gas Value (₹ in crore) \{Col. $6 \times 10 \%$ \} |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 |
| December-08 | 8.83 | 0.35 | 1.09 | 48.64 | 5.30 | 0.53 |
| January-09 | 8.83 | 0.35 | 1.09 | 48.83 | 5.32 | 0.53 |
| February-09 | 8.83 | 0.35 | 1.09 | 49.22 | 5.36 | 0.54 |
| March-09 | 8.83 | 0.35 | 1.09 | 51.23 | 5.58 | 0.56 |
| April-09 | 8.83 | 0.35 | 1.09 | 50.06 | 5.46 | 0.55 |
| May-09 | 8.83 | 0.35 | 1.09 | 48.53 | 5.29 | 0.53 |
| June-09 | 8.83 | 0.35 | 1.09 | 47.77 | 5.21 | 0.52 |
| July-09 | 8.83 | 0.35 | 1.09 | 48.48 | 5.28 | 0.53 |
| August-09 | 8.83 | 0.35 | 1.09 | 48.34 | 5.27 | 0.53 |
| September-09 | 8.83 | 0.35 | 1.09 | 48.44 | 5.28 | 0.53 |
| October-09 | 9.19 | 0.36 | 1.13 | 46.72 | 5.30 | 0.53 |
| November-09 | 9.19 | 0.36 | 1.13 | 46.57 | 5.28 | 0.53 |
| December-09 | 9.19 | 0.36 | 1.13 | 46.63 | 5.29 | 0.53 |
| January-10 | 9.19 | 0.36 | 1.13 | 45.96 | 5.21 | 0.52 |
| February-10 | 9.19 | 0.36 | 1.13 | 46.33 | 5.25 | 0.53 |
| March-10 | 9.19 | 0.36 | 1.13 | 45.50 | 5.16 | 0.52 |
| April-10 | 9.19 | 0.36 | 1.13 | 44.50 | 5.05 | 0.50 |
| May-10 | 9.19 | 0.36 | 1.13 | 45.80 | 5.19 | 0.52 |
| June-10 | 9.19 | 0.36 | 1.13 | 46.56 | 5.28 | 0.53 |
| July-10 | 9.19 | 0.36 | 1.13 | 46.84 | 5.31 | 0.53 |
| August-10 | 9.19 | 0.36 | 1.13 | 46.57 | 5.28 | 0.53 |
| September-10 | 9.19 | 0.36 | 1.13 | 46.06 | 5.22 | 0.52 |
| October-10 | 8.47 | 0.34 | 1.05 | 44.41 | 4.65 | 0.46 |
| November-10 | 8.47 | 0.34 | 1.05 | 45.02 | 4.71 | 0.47 |
| December-10 | 8.47 | 0.34 | 1.05 | 45.16 | 4.72 | 0.47 |
| January-11 | 8.47 | 0.34 | 1.05 | 45.39 | 4.75 | 0.47 |
| February-11 | 8.47 | 0.34 | 1.05 | 45.44 | 4.75 | 0.48 |
| March-11 | 8.47 | 0.34 | 1.05 | 44.99 | 4.71 | 0.47 |
| April-11 | 8.47 | 0.34 | 1.05 | 44.37 | 4.64 | 0.46 |
| May-11 | 8.47 | 0.34 | 1.05 | 44.90 | 4.70 | 0.47 |
| June-11 | 8.47 | 0.34 | 1.05 | 44.85 | 4.69 | 0.47 |
| July-11 | 8.47 | 0.34 | 1.05 | 44.42 | 4.65 | 0.46 |
| August-11 | 8.47 | 0.34 | 1.05 | 45.28 | 4.74 | 0.47 |
| September-11 | 8.47 | 0.34 | 1.05 | 47.64 | 4.98 | 0.50 |
| October-11 | 7.33 | 0.29 | 0.90 | 49.26 | 4.46 | 0.45 |
| November-11 | 7.33 | 0.29 | 0.90 | 50.84 | 4.60 | 0.46 |
| December-11 | 7.33 | 0.29 | 0.90 | 52.67 | 4.76 | 0.48 |
| January-12 | 7.33 | 0.29 | 0.90 | 51.35 | 4.64 | 0.46 |
| February-12 | 7.33 | 0.29 | 0.90 | 49.16 | 4.45 | 0.44 |
| March-12 | 7.33 | 0.29 | 0.90 | 50.32 | 4.55 | 0.46 |
| April-12 | 7.33 | 0.29 | 0.90 | 51.80 | 4.69 | 0.47 |

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| Month | Production (in million metric standard cubic metres i.e mmsm ${ }^{3}$ ) (Annual Production/12) | $\begin{gathered} \text { Production } \\ \text { (in MMBTU) } \\ \left(1 \mathrm{~m}^{3}=\right. \\ 0.0397) \\ \{\text { Col. } 2 \mathrm{x} \\ 0.0397 \mathrm{BTU}\} \end{gathered}$ | Value of Natural Gas (in million USD) @ USD <br> 3.11 per MMBTU \{Col. $3 \times 3.11\}$ | $\begin{aligned} & \text { Exchange } \\ & \text { rate } \\ & 1 \text { USD to ₹ } \end{aligned}$ | Value of Natural Gas (₹ in crore) \{Col. $4 \times$ Col. 5$\} / 10$ | Royalty @ 10\% of Gas Value (₹ in crore) \{Col. $6 \times 10 \%$ \} |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 |
| May-12 | 7.33 | 0.29 | 0.90 | 54.47 | 4.93 | 0.49 |
| June-12 | 7.33 | 0.29 | 0.90 | 56.03 | 5.07 | 0.51 |
| July-12 | 7.33 | 0.29 | 0.90 | 55.49 | 5.02 | 0.50 |
| August-12 | 7.33 | 0.29 | 0.90 | 55.56 | 5.03 | 0.50 |
| September-12 | 7.33 | 0.29 | 0.90 | 54.61 | 4.94 | 0.49 |
| October-12 | 6.70 | 0.27 | 0.83 | 53.02 | 4.39 | 0.44 |
| November-12 | 6.70 | 0.27 | 0.83 | 54.78 | 4.53 | 0.45 |
| December-12 | 6.70 | 0.27 | 0.83 | 54.65 | 4.52 | 0.45 |
| January-13 | 6.70 | 0.27 | 0.83 | 54.32 | 4.50 | 0.45 |
| February-13 | 6.70 | 0.27 | 0.83 | 53.77 | 4.45 | 0.45 |
| March-13 | 6.70 | 0.27 | 0.83 | 54.40 | 4.50 | 0.45 |
| April-13 | 6.70 | 0.27 | 0.83 | 54.38 | 4.50 | 0.45 |
| May-13 | 6.70 | 0.27 | 0.83 | 55.01 | 4.55 | 0.46 |
| June-13 | 6.70 | 0.27 | 0.83 | 58.40 | 4.83 | 0.48 |
| July-13 | 6.70 | 0.27 | 0.83 | 59.78 | 4.95 | 0.49 |
| August-13 | 6.70 | 0.27 | 0.83 | 63.21 | 5.23 | 0.52 |
| September-13 | 6.70 | 0.27 | 0.83 | 63.75 | 5.28 | 0.53 |
| October-13 | 5.69 | 0.23 | 0.70 | 61.62 | 4.33 | 0.43 |
| November-13 | 5.69 | 0.23 | 0.70 | 62.63 | 4.40 | 0.44 |
| December-13 | 5.69 | 0.23 | 0.70 | 61.91 | 4.35 | 0.43 |
| January-14 | 5.69 | 0.23 | 0.70 | 62.08 | 4.36 | 0.44 |
| February-14 | 5.69 | 0.23 | 0.70 | 62.25 | 4.37 | 0.44 |
| March-14 | 5.69 | 0.23 | 0.70 | 61.01 | 4.29 | 0.43 |
| April-14 | 5.69 | 0.23 | 0.70 | 60.36 | 4.24 | 0.42 |
| May-14 | 5.69 | 0.23 | 0.70 | 59.31 | 4.17 | 0.42 |
| June-14 | 5.69 | 0.23 | 0.70 | 59.73 | 4.20 | 0.42 |
| July-14 | 5.69 | 0.23 | 0.70 | 60.06 | 4.22 | 0.42 |
| August-14 | 5.69 | 0.23 | 0.70 | 60.90 | 4.28 | 0.43 |
| September-14 | 5.69 | 0.23 | 0.70 | 60.86 | 4.28 | 0.43 |
| October-14 | 5.34 | 0.21 | 0.66 | 61.34 | 4.04 | 0.40 |
| November-14 | 5.34 | 0.21 | 0.66 | 61.70 | 4.07 | 0.41 |
| December-14 | 5.34 | 0.21 | 0.66 | 62.75 | 4.14 | 0.41 |
| January-15 | 5.34 | 0.21 | 0.66 | 62.23 | 4.10 | 0.41 |
| February-15 | 5.34 | 0.21 | 0.66 | 62.04 | 4.09 | 0.41 |
| March-15 | 5.34 | 0.21 | 0.66 | 62.45 | 4.12 | 0.41 |
| Total | 923.16 | 36.78 | 114 |  | 552.98 | 55.26 |
| Rounded off to | 920 | 36 | 110 |  | 550.00 | 55.00 |

