

Station: Raipur

Location: Longitude : 81.65 E Latitude : 21.23 N

| Date       | Moonrise | Moonset | Sunrise | Sunset |
|------------|----------|---------|---------|--------|
|            | h. m.    | h. m.   | h. m.   | h. m.  |
| 2019/12/27 | 7-29     | 18-35   | 6-39    | 17-30  |
| 2019/12/28 | 8-20     | 19-31   | 6-39    | 17-31  |
| 2019/12/29 | 9- 7     | 20-25   | 6-39    | 17-31  |
| 2019/12/30 | 9-50     | 21-18   | 6-40    | 17-32  |
| 2019/12/31 | 10-28    | 22- 8   | 6-40    | 17-32  |
| 2020/ 1/ 1 | 11- 4    | 22-58   | 6-40    | 17-33  |
| 2020/ 1/ 2 | 11-38    | 23-47   | 6-41    | 17-34  |
| 2020/ 1/ 3 | 12-11    | -----   | 6-41    | 17-34  |
| 2020/ 1/ 4 | 12-44    | 0-35    | 6-41    | 17-35  |
| 2020/ 1/ 5 | 13-19    | 1-25    | 6-42    | 17-35  |
| 2020/ 1/ 6 | 13-57    | 2-16    | 6-42    | 17-36  |
| 2020/ 1/ 7 | 14-38    | 3-10    | 6-42    | 17-37  |
| 2020/ 1/ 8 | 15-26    | 4- 6    | 6-42    | 17-37  |
| 2020/ 1/ 9 | 16-17    | 5- 5    | 6-43    | 17-38  |
| 2020/ 1/10 | 17-16    | 6- 4    | 6-43    | 17-39  |
| 2020/ 1/11 | 18-17    | 7- 3    | 6-43    | 17-39  |
| 2020/ 1/12 | 19-22    | 7-59    | 6-43    | 17-40  |
| 2020/ 1/13 | 20-26    | 8-50    | 6-43    | 17-41  |
| 2020/ 1/14 | 21-29    | 9-38    | 6-43    | 17-41  |
| 2020/ 1/15 | 22-29    | 10-22   | 6-43    | 17-42  |
| 2020/ 1/16 | 23-29    | 11- 3   | 6-43    | 17-43  |
| 2020/ 1/17 | -----    | 11-44   | 6-43    | 17-44  |
| 2020/ 1/18 | 0-28     | 12-25   | 6-43    | 17-44  |
| 2020/ 1/19 | 1-27     | 13- 7   | 6-43    | 17-45  |
| 2020/ 1/20 | 2-26     | 13-53   | 6-43    | 17-46  |
| 2020/ 1/21 | 3-25     | 14-40   | 6-43    | 17-46  |
| 2020/ 1/22 | 4-23     | 15-32   | 6-43    | 17-47  |
| 2020/ 1/23 | 5-19     | 16-25   | 6-43    | 17-48  |
| 2020/ 1/24 | 6-12     | 17-20   | 6-43    | 17-48  |
| 2020/ 1/25 | 7- 1     | 18-15   | 6-43    | 17-49  |
| 2020/ 1/26 | 7-45     | 19- 8   | 6-42    | 17-49  |
| 2020/ 1/27 | 8-24     | 20- 0   | 6-42    | 17-50  |
| 2020/ 1/28 | 9- 2     | 20-50   | 6-42    | 17-51  |
| 2020/ 1/29 | 9-36     | 21-39   | 6-42    | 17-51  |
| 2020/ 1/30 | 10- 9    | 22-27   | 6-41    | 17-52  |
| 2020/ 1/31 | 10-42    | 23-16   | 6-41    | 17-53  |
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| 2020/ 2/ 8 | 17- 1    | 5-43    | 6-38    | 17-57  |
| 2020/ 2/ 9 | 18- 7    | 6-37    | 6-37    | 17-58  |

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| 2020/ 2/10 | 19-13 | 7-28  | 6-37 | 17-58 |
| 2020/ 2/11 | 20-16 | 8-15  | 6-36 | 17-59 |
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| 2020/ 2/14 | 23-21 | 10-23 | 6-35 | 18- 1 |
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| 2020/ 2/17 | 1-20  | 12-38 | 6-33 | 18- 2 |
| 2020/ 2/18 | 2-18  | 13-28 | 6-32 | 18- 3 |
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| 2020/ 2/22 | 5-42  | 17- 2 | 6-30 | 18- 4 |
| 2020/ 2/23 | 6-23  | 17-54 | 6-29 | 18- 5 |
| 2020/ 2/24 | 7- 1  | 18-44 | 6-28 | 18- 5 |
| 2020/ 2/25 | 7-36  | 19-34 | 6-27 | 18- 6 |
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| 2020/ 3/13 | 22- 9 | 9- 0  | 6-13 | 18-12 |
| 2020/ 3/14 | 23-12 | 9-46  | 6-13 | 18-12 |
| 2020/ 3/15 | ----- | 10-33 | 6-12 | 18-13 |
| 2020/ 3/16 | 0-12  | 11-24 | 6-11 | 18-13 |
| 2020/ 3/17 | 1-11  | 12-16 | 6-10 | 18-13 |
| 2020/ 3/18 | 2- 5  | 13-10 | 6- 9 | 18-14 |
| 2020/ 3/19 | 2-56  | 14- 4 | 6- 8 | 18-14 |
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| 2020/ 6/11 | 23-37 | 10-21 | 5-21 | 18-45 |
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| 2020/ 6/14 | 0-47  | 12-53 | 5-21 | 18-46 |
| 2020/ 6/15 | 1-20  | 13-42 | 5-22 | 18-46 |
| 2020/ 6/16 | 1-53  | 14-30 | 5-22 | 18-47 |
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| 2020/ 6/19 | 3-41  | 17- 6 | 5-22 | 18-48 |
| 2020/ 6/20 | 4-24  | 18- 2 | 5-22 | 18-48 |
| 2020/ 6/21 | 5-12  | 18-59 | 5-23 | 18-48 |
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| 2020/ 6/25 | 9- 4  | 22-25 | 5-24 | 18-49 |
| 2020/ 6/26 | 10- 4 | 23- 9 | 5-24 | 18-49 |
| 2020/ 6/27 | 11- 4 | 23-50 | 5-24 | 18-49 |
| 2020/ 6/28 | 12- 4 | ----- | 5-25 | 18-49 |
| 2020/ 6/29 | 13- 3 | 0-30  | 5-25 | 18-49 |
| 2020/ 6/30 | 14- 3 | 1-11  | 5-25 | 18-49 |
| 2020/ 7/ 1 | 15- 4 | 1-53  | 5-25 | 18-49 |
| 2020/ 7/ 2 | 16- 7 | 2-37  | 5-26 | 18-49 |
| 2020/ 7/ 3 | 17-10 | 3-27  | 5-26 | 18-49 |
| 2020/ 7/ 4 | 18-11 | 4-20  | 5-26 | 18-49 |
| 2020/ 7/ 5 | 19-10 | 5-17  | 5-27 | 18-49 |
| 2020/ 7/ 6 | 20- 2 | 6-15  | 5-27 | 18-49 |
| 2020/ 7/ 7 | 20-50 | 7-13  | 5-28 | 18-49 |
| 2020/ 7/ 8 | 21-32 | 8-10  | 5-28 | 18-49 |
| 2020/ 7/ 9 | 22-10 | 9- 4  | 5-28 | 18-49 |
| 2020/ 7/10 | 22-45 | 9-56  | 5-29 | 18-49 |
| 2020/ 7/11 | 23-19 | 10-45 | 5-29 | 18-49 |
| 2020/ 7/12 | 23-51 | 11-35 | 5-29 | 18-49 |
| 2020/ 7/13 | ----- | 12-23 | 5-30 | 18-49 |
| 2020/ 7/14 | 0-24  | 13-12 | 5-30 | 18-48 |

|            |       |       |      |       |
|------------|-------|-------|------|-------|
| 2020/ 7/15 | 0-59  | 14- 3 | 5-31 | 18-48 |
| 2020/ 7/16 | 1-37  | 14-56 | 5-31 | 18-48 |
| 2020/ 7/17 | 2-17  | 15-51 | 5-31 | 18-48 |
| 2020/ 7/18 | 3- 3  | 16-47 | 5-32 | 18-48 |
| 2020/ 7/19 | 3-55  | 17-44 | 5-32 | 18-47 |
| 2020/ 7/20 | 4-51  | 18-40 | 5-33 | 18-47 |
| 2020/ 7/21 | 5-51  | 19-33 | 5-33 | 18-47 |
| 2020/ 7/22 | 6-54  | 20-21 | 5-33 | 18-46 |
| 2020/ 7/23 | 7-56  | 21- 7 | 5-34 | 18-46 |
| 2020/ 7/24 | 8-58  | 21-50 | 5-34 | 18-46 |
| 2020/ 7/25 | 9-58  | 22-30 | 5-35 | 18-45 |
| 2020/ 7/26 | 10-58 | 23-11 | 5-35 | 18-45 |
| 2020/ 7/27 | 11-58 | 23-52 | 5-35 | 18-44 |
| 2020/ 7/28 | 12-58 | ----- | 5-36 | 18-44 |
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| 2020/ 8/ 2 | 17-54 | 4- 4  | 5-38 | 18-41 |
| 2020/ 8/ 3 | 18-43 | 5- 2  | 5-38 | 18-41 |
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| 2020/ 8/15 | 1-43  | 15-30 | 5-42 | 18-33 |
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| 2020/ 8/18 | 4-37  | 18-12 | 5-43 | 18-31 |
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| 2020/ 8/20 | 6-44  | 19-45 | 5-44 | 18-29 |
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| 2020/ 9/ 5 | 20-22 | 8-10  | 5-48 | 18-16 |
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| 2020/ 9/10 | 23-33 | 12-23 | 5-49 | 18-11 |
| 2020/ 9/11 | ----- | 13-18 | 5-50 | 18-10 |
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| 2020/ 9/23 | 11-50 | 22-57 | 5-53 | 17-59 |
| 2020/ 9/24 | 12-50 | 23-53 | 5-53 | 17-58 |
| 2020/ 9/25 | 13-46 | ----- | 5-53 | 17-57 |
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| 2020/ 9/29 | 16-42 | 3-35  | 5-54 | 17-53 |
| 2020/ 9/30 | 17-17 | 4-26  | 5-54 | 17-52 |
| 2020/10/ 1 | 17-51 | 5-17  | 5-55 | 17-51 |
| 2020/10/ 2 | 18-23 | 6- 5  | 5-55 | 17-50 |
| 2020/10/ 3 | 18-56 | 6-54  | 5-55 | 17-49 |
| 2020/10/ 4 | 19-30 | 7-43  | 5-56 | 17-49 |
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| 2020/10/17 | 6-17  | 18-17 | 6- 0 | 17-38 |
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| 2020/10/22 | 11-40 | 22-42 | 6- 2 | 17-34 |
| 2020/10/23 | 12-34 | 23-40 | 6- 2 | 17-33 |
| 2020/10/24 | 13-23 | ----- | 6- 3 | 17-33 |
| 2020/10/25 | 14- 5 | 0-37  | 6- 3 | 17-32 |
| 2020/10/26 | 14-44 | 1-31  | 6- 3 | 17-31 |

|            |       |       |      |       |
|------------|-------|-------|------|-------|
| 2020/10/27 | 15-20 | 2-23  | 6- 4 | 17-31 |
| 2020/10/28 | 15-53 | 3-13  | 6- 4 | 17-30 |
| 2020/10/29 | 16-25 | 4- 2  | 6- 5 | 17-29 |
| 2020/10/30 | 16-57 | 4-50  | 6- 5 | 17-29 |
| 2020/10/31 | 17-31 | 5-40  | 6- 6 | 17-28 |
| 2020/11/ 1 | 18- 6 | 6-29  | 6- 6 | 17-28 |
| 2020/11/ 2 | 18-44 | 7-20  | 6- 7 | 17-27 |
| 2020/11/ 3 | 19-26 | 8-12  | 6- 7 | 17-27 |
| 2020/11/ 4 | 20-11 | 9- 6  | 6- 8 | 17-26 |
| 2020/11/ 5 | 21- 1 | 9-59  | 6- 8 | 17-26 |
| 2020/11/ 6 | 21-56 | 10-52 | 6- 9 | 17-25 |
| 2020/11/ 7 | 22-52 | 11-43 | 6- 9 | 17-25 |
| 2020/11/ 8 | 23-51 | 12-31 | 6-10 | 17-24 |
| 2020/11/ 9 | ----- | 13-17 | 6-10 | 17-24 |
| 2020/11/10 | 0-51  | 14- 0 | 6-11 | 17-24 |
| 2020/11/11 | 1-52  | 14-42 | 6-12 | 17-23 |
| 2020/11/12 | 2-52  | 15-23 | 6-12 | 17-23 |
| 2020/11/13 | 3-55  | 16- 5 | 6-13 | 17-23 |
| 2020/11/14 | 4-59  | 16-49 | 6-13 | 17-22 |
| 2020/11/15 | 6- 5  | 17-38 | 6-14 | 17-22 |
| 2020/11/16 | 7-12  | 18-30 | 6-15 | 17-22 |
| 2020/11/17 | 8-19  | 19-27 | 6-15 | 17-21 |
| 2020/11/18 | 9-25  | 20-27 | 6-16 | 17-21 |
| 2020/11/19 | 10-23 | 21-28 | 6-16 | 17-21 |
| 2020/11/20 | 11-17 | 22-27 | 6-17 | 17-21 |
| 2020/11/21 | 12- 3 | 23-24 | 6-18 | 17-21 |
| 2020/11/22 | 12-44 | ----- | 6-18 | 17-21 |
| 2020/11/23 | 13-21 | 0-17  | 6-19 | 17-21 |
| 2020/11/24 | 13-55 | 1- 9  | 6-20 | 17-21 |
| 2020/11/25 | 14-27 | 1-58  | 6-20 | 17-21 |
| 2020/11/26 | 14-59 | 2-46  | 6-21 | 17-20 |
| 2020/11/27 | 15-32 | 3-35  | 6-22 | 17-21 |
| 2020/11/28 | 16- 6 | 4-24  | 6-22 | 17-21 |
| 2020/11/29 | 16-43 | 5-15  | 6-23 | 17-21 |
| 2020/11/30 | 17-24 | 6- 7  | 6-23 | 17-21 |
| 2020/12/ 1 | 18- 8 | 7- 1  | 6-24 | 17-21 |
| 2020/12/ 2 | 18-58 | 7-55  | 6-25 | 17-21 |
| 2020/12/ 3 | 19-51 | 8-49  | 6-25 | 17-21 |
| 2020/12/ 4 | 20-47 | 9-41  | 6-26 | 17-21 |
| 2020/12/ 5 | 21-45 | 10-30 | 6-27 | 17-21 |
| 2020/12/ 6 | 22-43 | 11-16 | 6-27 | 17-22 |
| 2020/12/ 7 | 23-42 | 11-58 | 6-28 | 17-22 |
| 2020/12/ 8 | ----- | 12-38 | 6-29 | 17-22 |
| 2020/12/ 9 | 0-40  | 13-18 | 6-29 | 17-22 |
| 2020/12/10 | 1-40  | 13-58 | 6-30 | 17-23 |
| 2020/12/11 | 2-40  | 14-39 | 6-30 | 17-23 |
| 2020/12/12 | 3-43  | 15-24 | 6-31 | 17-23 |
| 2020/12/13 | 4-48  | 16-13 | 6-32 | 17-24 |
| 2020/12/14 | 5-56  | 17- 8 | 6-32 | 17-24 |
| 2020/12/15 | 7- 2  | 18- 7 | 6-33 | 17-24 |
| 2020/12/16 | 8- 5  | 19- 9 | 6-33 | 17-25 |
| 2020/12/17 | 9- 3  | 20-10 | 6-34 | 17-25 |

|            |       |       |      |       |
|------------|-------|-------|------|-------|
| 2020/12/18 | 9-54  | 21-11 | 6-35 | 17-26 |
| 2020/12/19 | 10-38 | 22- 7 | 6-35 | 17-26 |
| 2020/12/20 | 11-18 | 23- 1 | 6-36 | 17-27 |
| 2020/12/21 | 11-54 | 23-52 | 6-36 | 17-27 |
| 2020/12/22 | 12-27 | ----- | 6-37 | 17-28 |
| 2020/12/23 | 12-59 | 0-40  | 6-37 | 17-28 |
| 2020/12/24 | 13-32 | 1-29  | 6-38 | 17-29 |
| 2020/12/25 | 14- 5 | 2-18  | 6-38 | 17-29 |
| 2020/12/26 | 14-41 | 3- 8  | 6-38 | 17-30 |
| 2020/12/27 | 15-21 | 3-59  | 6-39 | 17-30 |
| 2020/12/28 | 16- 4 | 4-53  | 6-39 | 17-31 |
| 2020/12/29 | 16-52 | 5-48  | 6-40 | 17-32 |
| 2020/12/30 | 17-45 | 6-42  | 6-40 | 17-32 |
| 2020/12/31 | 18-41 | 7-36  | 6-40 | 17-33 |

all times in local time ( = UT + 5.5h )