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| Format-1 |  |  |
| Annexure 4.2.2.1 Basic State Livestock population statistics | | |

# Narwana

|  |  |  |
| --- | --- | --- |
|  | Census 2020 | Census 2012 |
| Cattle |  |  |
| Buffalo |  |  |
| Sheep |  |  |
| Goat |  |  |
| Pigs |  |  |
| Pigs |  |  |
| Mithun |  |  |
| Yak |  |  |
| Camel |  |  |
| Donkey/Horse/Mules |  |  |
| Others |  |  |

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| Format-2 |  |  |
| Annexure 4.2.2.2. District wise livestock population statistics | | |

# Distt. Jind

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| --- | --- | --- |
|  | Census 2020 | Census 2012 |
| Cattle |  |  |
| Buffalo |  |  |
| Sheep |  |  |
| Goat |  |  |
| Pigs |  |  |
| Pigs |  |  |
| Mithun |  |  |
| Yak |  |  |
| Camel |  |  |
| Donkey/Horse/Mules |  |  |
| Others |  |  |

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| --- | --- | --- |
| Format-3 |  |  |
| Annexure 4.2.2.3 State dairy farm number statistics | | |

# Narwana

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Dairy type/Number of animals | Numbers | | | | | | |
|  | 1982 | 1992 | 1997 | 2003 | 2007 | 2012 | 2017 |
| Cattle dairy farm |  |  |  |  |  |  |  |
| Buffalo dairy farm |  |  |  |  |  |  |  |
| Milch animals farm |  |  |  |  |  |  |  |
| Other animals farm |  |  |  |  |  |  |  |
| Total animals farm |  |  |  |  |  |  |  |

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| Format-4 |  |  |
| Annexure 4.2.2.4. District wise dairy number statistics of Current Year 2019-20 | | |

# Jind

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Dairy type/Number of animals | Numbers | | | | | | |
|  | Only 2019-20 |  |  |  |  |  |  |
| Cattle dairy farm |  |  |  |  |  |  |  |
| Buffalo dairy farm |  |  |  |  |  |  |  |
| Milch animals farm |  |  |  |  |  |  |  |
| Other animals farm |  |  |  |  |  |  |  |
| Total animals farm |  |  |  |  |  |  |  |

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| Format-5 |  |  |
| Annexure 4.2.2.5. Basic Poultry number Statistics v (As per livestock census) | | |

# Narwana

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|  | | |  |  |  |  |
|  |  |  |  |  |  |  |
| Species (No.) | Numbers in thousands | | | | | |
|  |  | 1997 | 2003 | 2007 | 2012 | 2017 |
| Layers |  |  |  |  |  |  |
| Broilers |  |  |  |  |  |  |
| Backyard Poultry |  |  |  |  |  |  |
| Ducks |  |  |  |  |  |  |
| Turkey |  |  |  |  |  |  |
| Emu |  |  |  |  |  |  |
| Ginny Fowl |  |  |  |  |  |  |
| Other Birds |  |  |  |  |  |  |

# Jind

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| Format-6 |  |  |
| Annexure 4.2.2.6. District wise infrastructure and Birds Population | | |
|  |  |  |
| **Parameters** | Units | District. Jind |
| Poultry Farms |  |  |
| Capacity of farms |  |  |
| Farms which are fully mechanized for watering and |  |  |
| feeding |
| Total number of hatchery |  |  |
| Capacity of Hatchery |  |  |
| Number of feed plants |  |  |
| Number of poultry waste |  |  |
| recycling units |
| **Birds (No.)** |  |  |
| Layers |  |  |
| Broilers |  |  |
| Backyard Poultry |  |  |
| Ducks |  |  |
| Turkey |  |  |
| Other Birds |  |  |

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| Format-7 |  |  |  |  |  |  |  |
| Annexure 4.2.2.7 State poultry farm and birds number statistics | | |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Poultry farm/Poultry bird | Numbers | | | | | | |
|  | 1982 | 1992 | 1997 | 2003 | 2007 | 2012 | 2017 |
| Number of Poultry Farmers |  |  |  |  |  |  |  |
| Poultry farms |  |  |  |  |  |  |  |
| Number of Poultry Birds |  |  |  |  |  |  |  |
| Layers |  |  |  |  |  |  |  |
| Broilers |  |  |  |  |  |  |  |

Format 8 District wise poultry farm and birds number statistics of Current Year

|  |  |
| --- | --- |
| Poultry farm/Poultry bird | Numbers |
|  | District. Jind |
|  |  |
| Number of Poultry Farmers |  |
| Number of Total Poultry Birds |  |
| Number of Poultry Layers |  |
| Number of Poultry Broilers |  |

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| Format 9 |  |  |  |  |  |  |  |
| Annexure 4.2.2.9. State milk plants number statistics HLDB | | | | | | | |
|  |  |  |  |  |  |  |  |
| Milk plants | Numbers | | | | | | |
|  | 1982 | 1992 | 1997 | 2003 | 2007 | 2012 | 2017 |
| Less than 1 Lakh/ Day |  |  |  |  |  |  |  |
| 1-5 Lakh / Day |  |  |  |  |  |  |  |
| > 5 lakh litres/ day |  |  |  |  |  |  |  |
| Total milk pants |  |  |  |  |  |  |  |

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| Format-10 |  |  |  |  |  |
| Annexure 4.2.2.10. District wise milk plant number statistics HLDB | | |  |  |  |
|  |  |  |  |  |  |
| Milk plants | Numbers | | | | |
|  | Jind |  |  |  |  |
| Less than 1 Lakh/ Day |  |  |  |  |  |
| 1-5 Lakh / Day |  |  |  |  |  |
| > 5 lakh litres/ day |  |  |  |  |  |
| Total milk pants |  |  |  |  |  |

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| Format-11 |  |  |  |  |  |  |  |
| Annexure 4.2.2.11. State Abattoir number statistics | | |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Number and type of abattoir | Numbers | | | | | | |
|  | 1982 | 1992 | 1997 | 2003 | 2007 | 2012 | 2017 |
| Total number |  |  |  |  |  |  |  |
| Sheep/goat |  |  |  |  |  |  |  |
| Buffalo/cattle |  |  |  |  |  |  |  |

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| Format-12 |  |  |  |  |  |
| Annexure 4.2.2.12. District wise Abattoir number statistics | | |  |  |  |
|  |  |  |  |  |  |
| Number and type of abattoir | Numbers | | | | |
|  | District. Jind | District.2 | Dist.3 |  |  |
| Total number |  |  |  |  |  |
| Sheep/goat |  |  |  |  |  |
| Buffalo/cattle |  |  |  |  |  |

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| Format-13 |  | |  | | |  |  | |  | |  | |  |
| Annexure 4.2.2.13. State Meat processing units/plants number statistics | | | | | |  |  | |  | |  | |  |
|  |  | |  | | |  |  | |  | |  | |  |
| Number and type of meat processing units | Numbers | | | | | | | | | | | | |
|  | 1982 | 1992 | | 1997 | 2003 | | | 2007 | | 2012 | | 2017 | |
| Total number |  |  | |  |  | | |  | |  | |  | |
| Sheep/goat |  |  | |  |  | | |  | |  | |  | |
| Buffalo/cattle |  |  | |  |  | | |  | |  | |  | |

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| Format-14 |  | |  | |  | |  | |  |
| Annexure 4.2.2.14. District wise Meat processing units/plants number statistics | | | | |  | |  | |  |
|  |  | |  | |  | |  | |  |
| Number and type of Meat processing units | Numbers | | | | | | | | |
|  | District. Jind | District.2 | | Dist.3 | |  | |  | |
| Total number of meat processing units |  |  | |  | |  | |  | |
| Sheep/goat |  |  | |  | |  | |  | |
| Buffalo/cattle |  |  | |  | |  | |  | |

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| Format-15 |  | |  | |  | |  | |  | |  | |  |
| Annexure 4.2.2.15. State Abattoirs with meat processing units/plants number statistics | | | | |  | |  | |  | |  | |  |
|  |  | |  | |  | |  | |  | |  | |  |
| Number and type of meat processing units | Numbers | | | | | | | | | | | | |
|  | 1982 | 1992 | | 1997 | | 2003 | | 2007 | | 2012 | | 2017 | |
| Total number |  |  | |  | |  | |  | |  | |  | |
| Sheep/goat |  |  | |  | |  | |  | |  | |  | |
| Buffalo/cattle |  |  | |  | |  | |  | |  | |  | |

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| Format-16 |  |  |  |  |  |
| Annexure 4.2.2.16. District Abattoirs with meat processing units/plants number statistics | | | | | |
|
| Number and type of abattoir with meat | Numbers | | | | |
| processing units |
|  | District.1 Jind | District.2 | Dist.3 |  |  |
| Total number of Abattoirs with meat |  |  |  |  |  |
| processing units |
| Sheep/goat |  |  |  |  |  |
| Buffalo/cattle |  |  |  |  |  |

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| Format-17 |  |  |  |  |
| Annexure 4.2.2.17. Livestock water demand for drinking, washingand shed cleaning of Current Year | | | | |
|
| **Districts/Species** | Livestock water requirements in Thousand Liters | | |  |
| ***District- Jind*** | Drinking | Washing | Shed cleaning | Total |
| Cattle |  |  |  |  |
| Buffalo |  |  |  |  |
| Sheep |  |  |  |  |
| Goat |  |  |  |  |
| Pigs |  |  |  |  |
| Mithun |  |  |  |  |
| Yak |  |  |  |  |
| Camel |  |  |  |  |
| Donkey/Horse/Mules |  |  |  |  |
| Others |  |  |  |  |

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| Format-18 |  |  |  |  |  |
| **Annexure 4.2.2.18. Water demand for drinking, washing and cleaning in dairies of Current Year** | | | | | |
|  |  |  |  |  |  |
| Purpose/use | Thousand Litres | | | | |
|  | **District Jind** | **District 2** | **District 3** |  |  |
| Drinking |  |  |  |  |  |
| Washing |  |  |  |  |  |
| Cleaning shed |  |  |  |  |  |
| Total demand |  |  |  |  |  |

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| Format-19 |  |  |  |  |  |
| **Annexure 4.2.2.19. Water demand for drinking and cleaning of poultry farms of current Year** | | | | | |
|  |  |  |  |  |  |
| Purpose/use | Thousand Litres | | | | |
|  | **District. Jind** | **District.2** | **Dist.3** |  |  |
| Drinking |  |  |  |  |  |
| Cleaning |  |  |  |  |  |
| Cooling/fogging in summer |  |  |  |  |  |
| Feed manufacturing |  |  |  |  |  |
| Carcass disposal |  |  |  |  |  |
| Total demand |  |  |  |  |  |

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| Format-20 |  |  |  |  |  |
| Annexure 4.2.2.20. Water demand for milk plants (Mainly for cleaning) | | | | | |
|  |  |  |  |  |  |
| Purpose/use | Thousand Litres | | | | |
|  | Plant 1 | Plant 2 | Plant 3 | Plant-4 | Total |
| District- Jind |  |  |  |  |  |

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| Format-21 |  |  |  |  |  |  |
| Annexure 4.2.2.21 Water demand at different stages of animal slaughter in abattoir | | | | | | |
|  |  |  |  |  |  |  |
| Different stages | Cattle | Buffalo | Sheep | Goat | Pig | Poultry |
| Drinking of animals at animal holding area and |  |  |  |  |  |  |
| lairage |
| Washing of animals |  |  |  |  |  |  |
| Scalding |  |  |  |  |  |  |
| Carcass washing |  |  |  |  |  |  |
| Washing of slaughterhouse premises, lairage etc |  |  |  |  |  |  |
| At Effluent treatment plant |  |  |  |  |  |  |

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| Format-22 |  |  |  |  |  |  |
| Water demand at different stages in meat product processing plant | | | | | | |
|  |  |  |  |  |  |  |
| Different stages | Cattle | Buffalo | Sheep | Goat | Pig | Poultry |
| Water used for product preparation |  |  |  |  |  |  |
| Water used for cooking of meat products |  |  |  |  |  |  |
| Water used for washing of processing plant |  |  |  |  |  |  |
| premises |
| At Effluent treatment plant |  |  |  |  |  |  |

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| Format-23 |  |  |  |  |  |
| Annexure 4.2.2.23 Water demand for Abattoirs with meat processing unit/plant (plants having both Abattoir and meat processing unit) | | | | | |
|  |  |  |  |  |  |
| Purpose/use | Thousand Litres | | | | |
| *Slaughter operation* | **Abattoir 1** | **Abattoir 2** | **Abattoir 3** |  |  |
| Drinking of animals at animal holding area and |  |  |  |  |  |
| lairage |
| Washing of animals |  |  |  |  |  |
| Scalding |  |  |  |  |  |
| Carcass washing (except pig, poultry) |  |  |  |  |  |
| Washing of slaughterhouse premises, lairage etc |  |  |  |  |  |
| At Effluent treatment plant |  |  |  |  |  |
| *Meat product processing* |  |  |  |  |  |
| Water used for product preparation |  |  |  |  |  |
| Water used for cooking of meat products |  |  |  |  |  |
| Water used for washing of processing plant |  |  |  |  |  |
| premises |
| At Effluent treatment |  |  |  |  |  |
| Total water demand |  |  |  |  |  |
|  |  |  |  |  |  |

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| Format-24 |  |  |  |  |  |  |
| Annexure 4.2.2.24. Water productivity for milk production (cattle and buffalo) | | |  |  |  |  |
|  |  |  |  |  |  |  |
| **Species** | Water for drinking & washing (a) | Water for shed cleaning (b) | Total water requirement/water consumed (c) | Milk yield (d) | Water Productivity Litre water /Litre milk | Economic water productivity (Rs./litre) |
|  | c/d |
| (a+b) |  |
| Milch cattle |  |  |  |  |  |  |
| Milch buffalo |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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| Format-25 |  |  |  |  |  |  |
| Annexure 4.2.2.25. Water productivity for poultry egg production (Layers) | | |  |  |  |  |
|  |  |  |  |  |  |  |
| Poultry | Water for drinking & cooling | Water for cleaning (b) | Total water requirement/water consumed (c) | Egg numbers (d) | Water Productivity Litre water /100 eggs | Economic water productivity (Rs./litre) |
| (a) |  | c/d |
|  | (a+b) |  |
| Layers |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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| Format-26 |  |  |  |  |  |  |
| Annexure 4.2.2.26. Water productivity for poultry meat production (Broiler) | | |  |  |  |  |
|  |  |  |  |  |  |  |
| Poultry | Water for drinking & cooling | Water for cleaning (b) | Total water requirement/water consumed (c) | Broiler weight (d) | Water Productivity Litre water /kg wt gain | Economic water productivity (Rs./kg) |
| (a) |  | c/d |
|  | (a+b) |  |
| Broilers |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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| Format-27 |  |  |  |  |  |  |
| Annexure 4.2.2.27. Water productivity for meat production (Sheep/goat) | | |  |  |  |  |
|  |  |  |  |  |  |  |
| Species | Water for drinking & washing | Water for cleaning (b) | Total water requirement/wat er consumed (c) | Animal weight (d) | Water Productivity Litre water /kg wt gain | Economic water productivity (Rs./kg meat) |
| (a) | (a+b) | c/d |
| Sheep |  |  |  |  |  |  |
| Goat |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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| Format-28 |  |  |  |  |  |  |
| Annexure 4.2.2.28. Water productivity for meat production (buffalo/cattle) | | | | | | |
| Species | Water for drinking & cooling | Water for cleaning (b) | Total water requirement/water consumed (c) | Animal weight (d) | Water Productivity Litre water /kg wt gain | Economic water productivity (Rs./kg meat) |
| (a) |  | c/d |
|  | (a+b) |  |
| Buffalo |  |  |  |  |  |  |
| Cattle |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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| Format-29 |  |  |  |  |  |  |  |
| Annexure 4.2.2.29. Water productivity for milk processing (Litre water per litre milk processing) | | | | | | | |
|  |  |  |  |  |  |  |  |
| Milk plants | Water for steam generation (a) | Water for cleaning (b) | Water for other use in plant (c) | Total water requirement | Litre of milk processed (e) | Water Productivity Litre water /litre milk processed d/e | Economic water productivity (Rs./litre of pasteurized milk) |
|  |
| d = (a+b+c) |
| Plant1 |  |  |  |  |  |  |  |
| Plant2 |  |  |  |  |  |  |  |
| Plant 3 |  |  |  |  |  |  |  |
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| Format-30 |  |  |  |  |  |  |  |
| Annexure 4.2.2.30. Processed Milk Water Productivity- State level | | | | | | | |
|  |  |  |  |  |  |  |  |
| Year | Total No. of Milk Processing Plants | Total Annual Capacity | Annual Av. Capacity for the last 5 Years | Inputs Qty | | Output | Processed Milk Productivity Litres of Water/ |
| 1 Litre of Processed |
| Raw Milk | Water | Processed Milk | Milk |
|  |  |
| Kg/Yr |  |
| 2016 |  |  |  |  |  |  |  |
| 2017 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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| Format-31 |  |  |  |  |  |  |
| Annexure 4.2.2.31. Water productivity for meat processing | | | | | | |
|  |  |  |  |  |  |  |
| Abattoirs | Slaughter operation (a) | Meat product processing operation | Total water requirement/water consumed (c) | Broiler weight (d) | Water Productivity Litre water /kg processed meat c/d | Economic water productivity (Rs./kg meat product) |
| (b) |  |
|  | (a+b) |
| Abattoir1 |  |  |  |  |  |  |
| Abattoir 2 |  |  |  |  |  |  |
| Abattoir 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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| Format-32 |  |  |  |  |  |  |  |
| Annexure-4.2.2.32: Analysis of past trend of animal growth rate (numbers) | | | | | | | |
|  |  |  |  |  |  |  |  |
| **Livestock species** | **Cultivated Area (ha)** | | | | **Five yearly growth rate in livestock numbers** | | |
| 2003 | 2007 | 2012 | 2017 | 2003-2007 | 2007-2012 | 2006-2015 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ((3-2)/2)\*100 | ((4-3)/3)\*100 | ((5-4)/4)\*100 |
| Buffalo |  |  |  |  |  |  |  |
| Cattle |  |  |  |  |  |  |  |
| Sheep |  |  |  |  |  |  |  |
| Goat |  |  |  |  |  |  |  |
| Yak |  |  |  |  |  |  |  |
| Mithun |  |  |  |  |  |  |  |
| Camel |  |  |  |  |  |  |  |
| Horse/mule |  |  |  |  |  |  |  |
| Donkey |  |  |  |  |  |  |  |
| Pig |  |  |  |  |  |  |  |
| Poultry |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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| Format-33 |  |  |  |  |  |  |  |
| Annexure 4.2.2.33 Past trend of dairy farms | | | | | | | |
|  |  |  |  |  |  |  |  |
| **Livestock farm type** | **Cultivated Area (ha)** | | | | **Five yearly growth rate in livestock numbers** | | |
| 2003 | 2007 | 2012 | 2017 | 2003-2007 | 2007-2012 | 2006-2015 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ((3-2)/2)\*100 | ((4-3)/3)\*100 | ((5-4)/4)\*100 |
| Dairy farms |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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| Format-34 |  |  |  |  |  |  |  |
| Annexure 4.2.2.34 Past trend of poultry farms | | | | | | | |
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| **Livestock farm type** | **Cultivated Area (ha)** | | | | **Five yearly growth rate in livestock numbers** | | |
| 2003 | 2007 | 2012 | 2017 | 2003-2007 | 2007-2012 | 2006-2015 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ((3-2)/2)\*100 | ((4-3)/3)\*100 | ((5-4)/4)\*100 |
| Poultry farms |  |  |  |  |  |  |  |
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| Format-35 |  |  |  |  |  |  |  |
| Annexure 4.2.2.35 Past trend of milk processing plants | | | | | | | |
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| **Livestock farm type** | **Cultivated Area (ha)** | | | | **Five yearly growth rate in livestock numbers** | | |
| 2003 | 2007 | 2012 | 2017 | 2003-2007 | 2007-2012 | 2006-2015 |
| 1 | 2 | 3 | 4 | 5 | 6 ((3-2)/2)\*100 | 7  (4-3)/3)\*100 | 8  (5-4)/4)\*100 |
| Milk processing plants |  |  |  |  |  |  |  |
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| Format-36 |  |  |  |  |  |  |  |
| Annexure 4.2.2.36a Past trend of Abattoir plants | | | | | | | |
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| **Livestock farm type** | **Cultivated Area (ha)** | | | | **Five yearly growth rate in livestock numbers** | | |
| 2003 | 2007 | 2012 | 2017 | 2003-2007 | 2007-2012 | 2006-2015 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  |  |  | ((3-2)/2)\*100 | ((4-3)/3)\*100 | ((5-4)/4)\*100 |
| Abattoir |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Annexure 4.2.2.36b Past trend of meat processing plants | | | | | | | |
|  |  |  |  |  |  |  |  |
| **Livestock farm type** | **Cultivated Area (ha)** | | | | **Five yearly growth rate in livestock numbers** | | |
| 2003 | 2007 | 2012 | 2017 | 2003-2007 | 2007-2012 | 2006-2015 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  |  |  | ((3-2)/2)\*100 | ((4-3)/3)\*100 | ((5-4)/4)\*100 |
| Meat processing plants |  |  |  |  |  |  |  |
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| Annexure 4.2.2.36c Past trend of abattoir with meat processing units/plants | | | | | | | |
|  |  |  |  |  |  |  |  |
| **Livestock farm type** | **Cultivated Area (ha)** | | | | **Five yearly growth rate in livestock numbers** | | |
| 2003 | 2007 | 2012 | 2017 | 2003-2007 | 2007-2012 | 2006-2015 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  |  |  |  |  | ((3-2)/2)\*100 | ((4-3)/3)\*100 | ((5-4)/4)\*100 |
| Abattoir with meat |  |  |  |  |  |  |  |
| processing plants |  |  |  |  |  |  |  |
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| Format-37 |  |  |  |  |  |  |  |
| Annexure 4.2.2.39 Water measuring systems for dairy/poultry farm and milk/ meat processing plants | | | | | | | |
| Water use | Water Measuring systems |  |  |  |  |  |  |
| Dairy farm |  |  |  |  |  |  |  |
| Poultry farm |  |  |  |  |  |  |  |
| Milk plant |  |  |  |  |  |  |  |
| Abattoir |  |  |  |  |  |  |  |
| Meat processing plant |  |  |  |  |  |  |  |
| Abattoir with meat |  |  |  |  |  |  |  |
| processing unit/plant |  |  |  |  |  |  |
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| Format-38 |  |  |  |  |  |  |  |
| **Annexure 4.2.2.40**Water monitoring systems for dairy/poultry farm and milk/ meat processing plants | | | | | | | |
| Water use | Water monitoring – Quantity and Quality systems | | | | | | |
| Dairy farm |  |  |  |  |  |  |  |
| Poultry farm |  |  |  |  |  |  |  |
| Milk plant |  |  |  |  |  |  |  |
| Abattoir |  |  |  |  |  |  |  |
| Meat processing plant |  |  |  |  |  |  |  |
| Abattoir with meat |  |  |  |  |  |  |  |
| processing unit/plant |  |  |  |  |  |  |
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| Format-39 |  |  |  |  |  |  |  |
| **Annexure 4.2.2.41** Data constraint/ management for dairy/poultry farm and milk/ meat processing plants | | | | | | | |
| Water use | Data Constraints/ Challenges | | | | | | |
| Dairy farm |  |  |  |  |  |  |  |
| Poultry farm |  |  |  |  |  |  |  |
| Milk plant |  |  |  |  |  |  |  |
| Abattoir |  |  |  |  |  |  |  |
| Meat processing plant |  |  |  |  |  |  |  |
| Abattoir with meat |  |  |  |  |  |  |  |
| processing unit/plant |  |  |  |  |  |  |
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| Format-40 |  |  |  |  |  |  |  |
| Annexure 4.2.2.42. Livestock drinking water requirments (Cattle and Buffalo) | | | | | | | |
|  |  |  |  |  |  |  |  |
| Animal Type | Season | Water intake in 24 h (1) | | | | | |
| Calf | Winter Summer |  |  |  |  |  |  |
| Heifer | Winter Summer |  |  |  |  |  |  |
| Adult | Winter-dry |  |  |  |  |  |  |
|  | \_Lactating |  |  |  |  |  |  |
|  | Summer-dry |  |  |  |  |  |  |
|  | \_Lactating |  |  |  |  |  |  |
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| Format-41 |  |  |  |  |  |  |  |
| Annexure 4.2.2.43. Water requirment for livestock washing/cleaning (Cattle and Buffalo) | | | | | | | |
|  |  |  |  |  |  |  |  |
| Animal Type | Season | Water for washing each buffalo (L) | | | | | |
| Calf | Winter Summer |  |  |  |  |  |  |
| Heifer | Winter Summer |  |  |  |  |  |  |
| Adult | Winter-dry |  |  |  |  |  |  |
| \_Lactating |  |  |  |  |  |  |
| Summer-dry |  |  |  |  |  |  |
| \_Lactating |  |  |  |  |  |  |
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| Format-42 |  |  |  |  |  |  |  |
| Annexure 4.2.2.44a. Poultry drinking water requirment | | | | | | | |
|  |  |  |  |  |  |  |  |
| Average daily water requirement per day (consumptions/water use in ml per day) | | | | | | | |
| Types of Birds | Total (No.) | ml per day (mpd) | |  |  |  |  |
| Broiler |  |  | |  |  |  |  |
| Pullets |  |  | |  |  |  |  |
| Layers |  |  | |  |  |  |  |
| Breeders |  |  | |  |  |  |  |
| Turkey |  |  | |  |  |  |  |
|  |  |  |  |  |  |  |  |
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| Annexure 4.2.2.44b. Drinking water requirments for Poultry | | | |  |  |  |  |
|  |  |  |  |  |  |  |  |
| SN | Type of birds | Water requirements in lit per 100 birds | |  |  |  |  |
| 1 | Layer pullets (growing birds) |  | |  |  |  |  |
| 2 | Layer hens (mature) |  | |  |  |  |  |
| 3 | Breeder pullets (growing) |  | |  |  |  |  |
| 4 | Breeder Hens(Mature) |  | |  |  |  |  |
| 5 | Broiler chickens |  | |  |  |  |  |
| 6 | Turkey broilers |  | |  |  |  |  |
| 7 | Turkey Breeders |  | |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Annexure 4.2.2.44c. Drinking water requirments for Poultry | | | | |  |  |  |
|  |  |  |  |  |  |  |  |
| SN | Type of birds | Service water requirement (lit) per 100 birds per day | | No. of birds |  |  |  |
| 1 | Broiler Chicks |  | |  |  |  |  |
| 2 | Broiler Adults |  | |  |  |  |  |
| 3 | Layer Chicks |  | |  |  |  |  |
| 4 | Laying Birds |  | |  |  |  |  |
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| Format-43 |  |  |  |  |  |  |  |
| Annexure 4.2.2.45. Service water requirments for Poultry | | | | |  |  |  |
|  |  |  |  |  |  |  |  |
| SN | Type of birds | Service water requirement (lit)/100 birds/day | | No. of birds |  |  |  |
| 1 | Broiler Chicks |  | |  |  |  |  |
| 2 | Broiler Adults |  | |  |  |  |  |
| 3 | Layer Chicks |  | |  |  |  |  |
| 4 | Laying Birds |  | |  |  |  |  |
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| Format-44 |  |  |  |  |  |  |  |  |
| Annexure 4.2.2.46a. Water requirment for kg milk production | | | | | | | | |
|  |  |  |  |  |  |  |  |  |
| Water (L/Kg product) | East Asia | Latin America & Caribbean | | North America & West Asia | North America & Oceania | South & Central Asia | Sub- Saharan Africa | Europe |
| Milk |  |  | |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Annexure 4.2.2.46b. Water requirment for kg milk production | | | | | | | | |
|  |  |  |  |  |  |  |  |  |
| Product | Water in Liter/Kg product |  | |  |  |  |  |  |
| Milk | 1020 |  | |  |  |  |  |  |
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| Format-45 |  |  |  |  |  |  |  |  |
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| Annexure 4.2.2.47. Water requirment for Litre milk processing | | |  |  |  |  |  |  |
| Product | Water in Liter/Litre Milk Processed |  |  |  |  |  |  |  |
| Milk | 1-1.5 |  |  |  |  |  |  |  |
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| Format-46 |  |  |  |  |  |  |  |  |
| Annexure 4.2.2.48a. Water requirment kg livestock products in meat processig plant/abattoir | | | | | | | | |
| Processing of livestock products | |  |  |  |  |  |  |  |
| Product | Water in Liter/Kg product |  | |  |  |  |  |  |
| Eggs |  |  | |  |  |  |  |  |
| Chicken-meat |  |  | |  |  |  |  |  |
| Pig meat |  |  | |  |  |  |  |  |
| Sheep/Goat meat |  |  | |  |  |  |  |  |
| Bovine meat (Cattle/Buffalo) |  |  | |  |  |  |  |  |
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| Format-47 |  |  |  |  |  |  |  |  |
| Annexure 4.2.2.48b. Water requirment kg livestock products in meat processing plant/abattoir | | | | | | | | |
|  |  |  |  |  |  |  |  |  |
| Water (L/Kg product) | East Asia | Latin America & Caribbean | North America & West Asia | North America & Oceania | South & Central Asia | Sub- Saharan Africa | Europe | Average |
| Egg | 3900 | 6300 | 6200 | 2300 | 7400 | 14700 | 2400 | 6200 |
| Beef | 83000 | 61900 | 11 | 27100 | 308900 | 186600 | 20100 | 114700 |
| Sheep/Goat | 87900 | 0 | 64300 | 36100 | 243500 | 0 | 14000 | 63700 |
| Poultry | 5800 | 7300 | 1900 | 3200 | 10200 | 16900 | 3400 | 7000 |
| Pork | 16300 | 12800 | 21000 | 4100 | 12100 | 40700 | 15900 | 17600 |
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| Format-48 |  | |  |  |  |  |  |  |  |
| Performance indicators for Dairy Farms (Annexure 4.2.2.49) | | | | | | |  |  |  |
| **Category** | | **Indicator** | | | | | **Unit** | **Bench Mark** | **District-1** |
| Water quantity Measurement | | % of dairy farms with water flow meters | | | | | % |  |  |
| % of water sources (ponds for animal drinking and wallowing) geotagged | | | | | % |  |  |
| % dairy farms undertaking intrenal water audit | | | | | % |  |  |
| % dairy farms undertaking external water audit | | | | | % |  |  |
| Submitting monthly water balance to state pollution control board (SPCB) | | | | | Number |  |  |
| Water conservation | | % of dairy farms with water harvesting structures. | | | | | % |  |  |
| % of dairy farm with pressurized pumps for cleaning sheds/Pressure foam systems for cleaning shed floors. | | | | | % |  |  |
| % of dairy farms with shower facility for washing animals. | | | | | % |  |  |
| % dairy farms with fogging facility. | | | | | % |  |  |
| Water demand management | | No animal washing in event of water scarcity | | | | | Number |  |  |
| % of dairy farms following dry washing of animals | | | | | % |  |  |
| % of dairy farms with facility for dry washing and cleaning of animals sheds | | | | | % |  |  |
| % of dairy farms with using green fodder in animal diet | | | | | % |  |  |
| % of dairy farms repairing leaks from connections, valves and seals | | | | | % |  |  |
| Water productivity | | Water consumption per liter of milk production | | | | | Liters |  |  |
| Water quality | | % dairy farms conducting the prescribed water quality tests | | | | | % |  |  |
| % of dairy farms with separate channels for disposal of animal waste (dung and urine) | | | | | % |  |  |
| % of dairy farms with waste storage pond | | | | | % |  |  |
| % of dairy farms with waste lagoon | | | | | % |  |  |
| % of dairy units installed online water quality monitoring systems | | | | | % |  |  |
| % of dairy units complied with the waste water quality discharged norms. | | | | | % |  |  |
| % of dairy units received notices for the violation of statute from SPCB | | | | | % |  |  |
| Waste Water | | Total waste water generated from dairy farm | | | | | Liters |  |  |
| % waste water treated | | | | | % |  |  |
| % treated water used in industrial activity | | | | | % |  |  |
| % treated water used in green belt | | | | | % |  |  |
| % reduction in total quantum of wastewater disposed | | | | | % |  |  |
| % of dairy plants with Zero liquid discharge (AZD) | | | | | % |  |  |
| % of dairy farms with waste water recycling | | | | | % |  |  |
| % of dairy farms with waste water treatment plant/water putification system | | | | | % |  |  |
| Capacity building | | % of dairy plant conduction training of employees for minimizing water use. | | | | | % |  |  |
| Water Economics | | Cost of 1 lt water | | | | | % |  |  |
| % of dairy farms paying water bills | | | | | % |  |  |
| Others | |  | | | | |  |  |  |

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| Format-49 |  | |  |  |  |  | |  | |  | |  |
| Performance indicators for Poultry (Annexure 4.2.2.50) | | | | | | | |  | |  | |  |
| **Category** | | **Indicator** | | | | | **Unit** | | **Bench Mark** | | **District-1** | |
| Water quantity Measurement | | % of Poultry farms with water meters | | | | | % | |  | |  | |
| % Poultry farms undertaking intrenal water audit | | | | | % | |  | |  | |
| % Poultry farms undertaking external water audit | | | | | % | |  | |  | |
| Submitting monthly water balance to state pollution control board (SPCB) | | | | |  | |  | |  | |
| Water conservation | | % of Poultry farms with working water harvesting structures. | | | | | % | |  | |  | |
| % of poultry farm with water recycling system. | | | | | % | |  | |  | |
| % of poultry farm with nipple system. | | | | | % | |  | |  | |
| % of poultry farms with fogging facility for cooling of sheds in summer. | | | | | % | |  | |  | |
| Water demand management | | % of breeders/Layers farms having 0-6 weeks | | | | | % | |  | |  | |
|  | | % of breeders/Layers farms having 0-6 weeks birds6-20 weeks | | | | | % | |  | |  | |
| % of breeders/Layers farms having 20-72 weeks | | | | | % | |  | |  | |
| % of poultry farms following disinfection of the sheds to control external parasites of birds | | | | | % | |  | |  | |
| % of poultry farms with Facilities for dry washing and cleaning of animal sheds | | | | | % | |  | |  | |
| % of poultry farms having own feed units | | | | | % | |  | |  | |
| % of poultry farms repairing leaks from connections, valves and seals | | | | | % | |  | |  | |
| Water productivity | | Water consumption (in L) per 100 eggs production | | | | |  | |  | |  | |
| Water consumption (in L) per 1kg live meat | | | | |  | |  | |  | |
| Water quality | | % poultry farms conducting the prescribed water quality tests | | | | | % | |  | |  | |
| % of poultry farms with separate channels for disposal of animal waste (birds excreta) | | | | | % | |  | |  | |
| % of poultry farms with waste storage pit | | | | | % | |  | |  | |
| % of poultry farms with poultry waste lagoon | | | | | % | |  | |  | |
| % of poultry units installed online water quality monitoring systems | | | | | % | |  | |  | |
| % of poultry units complied with the waste water quality discharged norms. | | | | | % | |  | |  | |
| % of poultry units received notices for the violation of statute from SPCB | | | | | % | |  | |  | |
| Waste Water | | Total waste water generated | | | | |  | |  | |  | |
| % of poultry farms with waste water recycling | | | | | % | |  | |  | |
| % waste water treated | | | | | % | |  | |  | |
| % Treated water used in farm activity (gardening, cooling of sheds etc) | | | | | % | |  | |  | |
| % reduction in total quantum of wastewater disposed | | | | | % | |  | |  | |
| % of poultry farms with Zero liquid discharge (AZD) | | | | | % | |  | |  | |
| % of poultry farms with waste water treatment plant/water putification system | | | | | % | |  | |  | |
| Capacity building | | % of plant conduction training of employees for minimizing water use. | | | | | % | |  | |  | |
| Water Economics | | Cost of 1 lt water | | | | |  | |  | |  | |
| % of poultry farms paying water bills | | | | |  | |  | |  | |
| Others | | % of poultry farms having carcass disposable system | | | | | % | |  | |  | |

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| Format-50 |  | |  |  |  |  | |  | |  | |  |
| **Performance indicators for Milk Processing Plants-** Separately for each category of plant-(i) Less than 1 Lakh /Day (ii) 1-5 Lakh/Day (iii)> 5 lakh liters/day (Annexure 4.2.2.51) | | | | | | | |  | |  | |  |
|  | |  | | | | |  | |  | |  | |
| **Category** | | **Indicator** | | | | | **Unit** | | **Bench Mark** | | **District-1** | |
| Water quantity Measurement | | % of Milk plant using water measuring device at source. | | | | | % | |  | |  | |
| % of plant using automatic water measuring system. | | | | | % | |  | |  | |
| Milk plant annual total water consumption | | | | | % | |  | |  | |
| Average water treated in ETP annually. | | | | | % | |  | |  | |
| % dairy plants undertaking internal water audit | | | | | % | |  | |  | |
| % dairy plants undertaking external water audit | | | | | % | |  | |  | |
| Submitting monthly water balance to state pollution control board ( SPCB) | | | | | % | |  | |  | |
| Water conservation | | % of Plant with working water harvesting structures. | | | | | % | |  | |  | |
| % of dairy plants with condensate recovery system | | | | | % | |  | |  | |
| % of dairy plants with automatic CIP cleaning system | | | | | % | |  | |  | |
| Water demand management | | % of plant conducting water audit | | | | | % | |  | |  | |
| % of dairy plants conducting regular maintenance(repairing leaks from connections, valves and seals) | | | | | % | |  | |  | |
| Water productivity | | Water consumption (in L) per 1 litre of processed milk | | | | |  | |  | |  | |
| Water quality | | % dairy plants conducting the prescribed water quality tests | | | | | % | |  | |  | |
| % dairy plants installed online water quality monitoring systems. | | | | | % | |  | |  | |
| % of dairy plants complied with the wastewater quality discharged norms. | | | | | % | |  | |  | |
| % of dairy plants received notices for the violation of statute from SPCB | | | | | % | |  | |  | |
| Waste Water | | Total waste water generated | | | | |  | |  | |  | |
|  | | % of dairy plants with 100% waste water recycling | | | | | % | |  | |  | |
|  | | % waste water treated | | | | | % | |  | |  | |
|  | | % Treated water used in Industrial activity. | | | | | % | |  | |  | |
|  | | %Treated water used in green belt | | | | | % | |  | |  | |
|  | | % Reduction in total quantum of waste water disposed | | | | | % | |  | |  | |
|  | | % of plants with Zero liquid discharge (ZLD) | | | | | % | |  | |  | |
| Participatory water management | |  | | | | |  | |  | |  | |
| Capacity building | | % of plant conduction training of employees for minimizing water use. | | | | | % | |  | |  | |
| Water Economics | | Cost of 1 lt water | | | | |  | |  | |  | |
| Others | |  | | | | |  | |  | |  | |
|  | |  | | | | |  | |  | |  | |
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| Format-51 |  |  |  |  |  |  |  |
| **Performance indicators - Abattoirs only** (Annexure 4.2.2.52) | | | | | |  |  |
|  |  |  |  |  |  |  |  |
| **Category** | **Indicator** | **Type of abattoir** | | | | | |
|  |  | **Cattle** | **Bullalo** | **Sheep** | **Goat** | **Pig** | Poultry |
| Water quantity Measurement | % of abattoirs using water measuring device at source. | % |  |  |  |  |  |
| % of abattoir using automatic water measuring system. | % |  |  |  |  |  |
| % abattoirs undertaking internal water audit | % |  |  |  |  |  |
| % abattoirs undertaking external water audit | % |  |  |  |  |  |
| % abattoirs sending monthly water balance to state pollution control board ( SPCB) | % |  |  |  |  |  |
| Water conservation | % of abattoirs having rain water harvesting facility | % |  |  |  |  |  |
| % of abattoirs having shower facilities for animals | % |  |  |  |  |  |
| Water demand management | % of abattoirs having repairing leaks from connections, valves and seal at regular intervals | % |  |  |  |  |  |
| Water productivity | Average Water consumption per kg of meat produced |  |  |  |  |  |  |
| Water quality | % of abattoirs conducting the prescribed water quality tests | % |  |  |  |  |  |
| % of abattoirs with separate channels for disposal of animal waste (dung and urine) | % |  |  |  |  |  |
| % of abattoirs with waste storage pond | % |  |  |  |  |  |
| % of abattoirs with waste lagoon | % |  |  |  |  |  |
| % of abattoirs installed online water quality monitoring systems. | % |  |  |  |  |  |
| % of abattoirs complied with the wastewater quality discharged norms. | % |  |  |  |  |  |
| % of abattoirs received notices for the violation of statute from SPCB | % |  |  |  |  |  |
| % abattoirs meeting Pollution Control Board guidelines on treated water quality | % |  |  |  |  |  |
| Waste Water | Total waste water generated |  |  |  |  |  |  |
|  | % of abattoirs with waste water treatment plant | % |  |  |  |  |  |
|  | % of abattoirs recycling treated water | % |  |  |  |  |  |
|  | % waste water treated | % |  |  |  |  |  |
|  | % Treated water used in abattoir activities. | % |  |  |  |  |  |
|  | %Treated water used in green belt | % |  |  |  |  |  |
|  | % Reduction in total quantum of waste water disposed | % |  |  |  |  |  |
|  | % of abattoirs with Zero liquid discharge (ZLD) | % |  |  |  |  |  |
| Capacity building | % of plant conduction training of employees for minimizing water use. | % |  |  |  |  |  |
| Water Economics | Cost of 1 litre water |  |  |  |  |  |  |
| Others issues | % number of abattoirs having meat product facility along with abattoir |  |  |  |  |  |  |
|  | % of abattoirs undertaking by product processing in their plant |  |  |  |  |  |  |
|  | % of abattoirs using automated cleaning of animal by products |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Format-52 |  |  |  |  |  |
| **Performance indicators - Meat product processing plants only** (without attached abattoir)(Annexure 4.2.2.53) | | | | | |
|  |  |  |  |  |  |
| **Category** | **Indicator** | **Units** | **Bench Mark** | **Plant-1** | **Plant-2** |
|  |  |  |  |  |  |
| Water quantity Measurement | % of processing plants using water measuring device at source. | % |  |  |  |
| % of processing plants using automatic water measuring system. | % |  |  |  |
| Annual total water consumed |  |  |  |  |
| Average water treated annually in ETP annually. |  |  |  |  |
| % of plants undertaking internal water audit | % |  |  |  |
| % of plants undertaking external water audit | % |  |  |  |
| % plants sending monthly water balance to state pollution control board ( SPCB) | % |  |  |  |
| Water conservation | % of abattoirs having rain water harvesting facility | % |  |  |  |
| Water demand management | % of processing plants having repairing facility for leaks from connections, valves and seals | % |  |  |  |
| Water productivity | Average Water consumption per kg of meat product produced. |  |  |  |  |
| Water quality | % of processing plants conducting the prescribed water quality tests | % |  |  |  |
| % of units installed online water quality monitoring systems. | % |  |  |  |
| % of units complied with the wastewater quality discharge norms. | % |  |  |  |
| % plants meeting Pollution Control Board guidelines on treated water quality | % |  |  |  |
| Waste Water | Total waste water generated |  |  |  |  |
| % of plants with waste water treatment plant | % |  |  |  |
| % of units recycling treated water | % |  |  |  |
| % Waste water treated | % |  |  |  |
| % Treated water used in plant activities |  |  |  |  |
| %Treated water used in green belt | % |  |  |  |
| % of plants with Zero liquid water discharge | % |  |  |  |
| Capacity building | % of plant conducting training of employees for minimizing water usage. | % |  |  |  |
| Water Economics | Cost of 1 lt water |  |  |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  | Sheep Goat | 18-20 Liter per Day per animal |  |  |  |
|  | Horse | 36 | 36 |  |  |
|  | Pig | 20-25 |  |  |  |
|  | Poultry | 200-250 ml | double to feed |  |  |