

Hatnur Dam



Waghur Dam

PRADHAN MANTRI KRISHI SINCHAYEE YOJNA
DISTRICT IRRIGATION PLAN
FOR JALGAON DISTRICT OF MAHARASHTRA STATE
(INDIA)
UNDER PMKSY FOR THE YEAR 2016-2020



Girna Dam



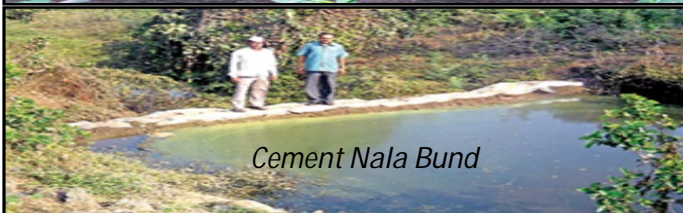
Hivra Project



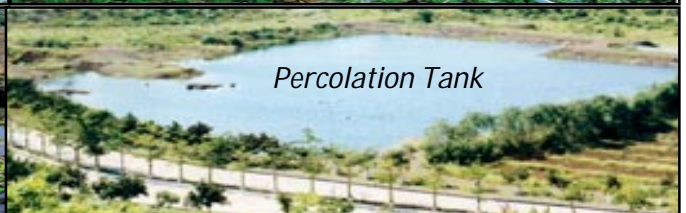
Drip Irrigation System



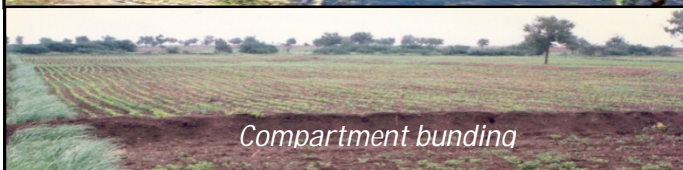
Sprinkler Irrigation System



Cement Nala Bund



Percolation Tank



Compartment bunding



Farm Pond



KT Weir



Check dam

CHAIRMAN,
DISTRICT LEVEL IMPLEMENTING COMMITTEE (PMKSY) &
DISTRICT COLLECTOR, JALGAON, MAHARASHTRA



महाराष्ट्र शासन



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Introduction

The major objective of PMKSY is to achieve convergence of investments in irrigation at the field level, expand cultivable area under assured irrigation, improve on-farm water use efficiency to reduce wastage of water, enhance the adoption of precision-irrigation and other water saving technologies (*More crop per drop*), enhance recharge of aquifers and introduce sustainable water conservation practices by exploring the feasibility of reusing treated municipal waste water for peri-urban agriculture and attract greater private investment in precision irrigation system.

PMKSY has been conceived amalgamating ongoing schemes viz. Accelerated Irrigation Benefit Program (AIBP) of the Ministry of Water Resources, Integrated Watershed Management Program (IWMP) of Department of Land Resources (DoLR) and the On Farm Water Management (OFWM) of Department of Agriculture and Cooperation (DAC). The scheme will be implemented by Ministry of Agriculture, Water Resources and Rural Development. Ministry of Rural Development is to mainly undertake rain water conservation, construction of farm pond, water harvesting structures, small check dams and contour bunding etc. MoWR, RD &GR, is to undertake various measures for creation of assured irrigation source, construction of diversion canals, field channels, water diversion/lift irrigation, including development of water distribution systems. Ministry of Agriculture will promote efficient water conveyance and precision water application devices like drips, sprinklers, pivots, rain-guns in the farm "*(Jal Sinchan)*", construction of micro-irrigation structures to supplement source creation activities, extension activities for promotion of scientific moisture conservation and agronomic measures.

Program architecture of PMKSY will be to adopt a 'decentralized State level planning and projective execution' structure that will allow States to draw up their own irrigation development plans based on District Irrigation Plan (DIP) and State Irrigation Plan (SIP). It will be operative as convergence platform for all water sector activities including drinking water & sanitation, MGNREGA, application of science & technology etc. through comprehensive plan. State Level Sanctioning Committee (SLSC) chaired by the Chief Secretary of the State with the authority to oversee its implementation and sanction of projects. The program will be supervised and monitored by an Inter-Ministerial National Steering Committee (NSC) will be constituted under the Chairmanship of Prime Minister with Union Ministers from concerned Ministries. A National Executive Committee (NEC) constituted under the Chairmanship of Vice Chairman, NITI Aayog to oversee program implementation, allocation of resources, inter ministerial coordination, monitoring & performance assessment, addressing administrative issues etc.

Components and responsible Ministries/ Departments-

✓ AIBP by MoWR, RD &GR

To focus on faster completion of ongoing Major and Medium Irrigation including National Projects.

✓ PMKSY (*Har Khet ko Pani*) by MoWR, RD & GR

Creation of new water sources through Minor Irrigation (both surface and ground water). Repair, restoration and renovation of water bodies; strengthening carrying capacity of traditional water sources, construction rain water harvesting structures (*Jal Sanchay*); Command area development, strengthening and creation of distribution network from source to the farm. Improvement in water management and distribution system for water bodies to take advantage of available source, which is not utilized to its fullest capacity. At least 10% of the command area to under micro/precision irrigation. Diversion of water from source of different location where it is plenty to nearby water scarce areas, lift irrigation from water bodies/rivers at lower elevation to supplement requirements beyond IWMP and MGNREGS irrespective of irrigation command.

✓ PMKSY (Watershed) by Dept. of Land Resources, MoRD

Water harvesting structures such as check dams, nala bund, farm ponds, tanks etc. Capacity building, entry point activities, ridge area treatment, drainage line treatment, soil and moisture conservation, nursery raising, afforestation, horticulture, pasture development, livelihood activities for the asset-less persons and production system & micro enterprises for small and marginal farmers etc. Effective rainfall management like field bunding, contour bunding/trenching, staggered trenching, land leveling, mulching etc.

✓ PMKSY (Per drop more crop) by Dept. of Agriculture & Cooperation, MoA

Program management, preparation of State/District Irrigation Plan, approval of annual action plan, Monitoring etc. Promoting efficient water conveyance and precision water application devices like drips, sprinklers, pivots, rain-guns in the farm (*Jal Sinchan*) Topping up of input cost particularly under civil construction beyond permissible limit (40%), under MGNREGS for activities like lining inlet, outlet, silt traps distribution system etc. Construction of micro irrigation structures to supplement source creation activities including tube wells and dug wells (in areas where ground water is available and not under semi critical /critical /over exploited category of development) which are not supported under PMKSY (WR), PMKSY (Watershed) and MGNREGS. Secondary storage structures at tail end of canal system to store water when available in abundance (rainy season) or from perennial sources like streams for use during dry periods through effective on-farm water management Water lifting devices like diesel/ electric/ solar pump sets including water carriage pipes. Extension activities for promotion of scientific moisture conservation and agronomic measures including cropping alignment to maximize use of available water including rainfall and minimize irrigation requirement. Capacity building, training for encouraging potential use water source through technological, agronomic and management practices including community irrigation. Awareness campaign on water saving technologies, practices, programs etc. organization of workshops, conferences, publication of booklets, pamphlets, success stories, documentary, advertisements etc. Improved/innovative distribution system like pipe and box outlet system with controlled outlet and other activities of enhancing water use efficiency.

Objectives:

The broad objectives of PMKSY will be:-

- ✓ Achieve convergence of investments in irrigation at the field level (preparation of district level and, if required, sub district level water use plans).
- ✓ Enhance the physical access of water on the farm and expand cultivable area under assured irrigation (*Har Khet ko pani*).
- ✓ Integration of water source, distribution and its efficient use, to make best use of water through appropriate technologies and practices.
- ✓ Improve on-farm water use efficiency to reduce wastage and increase availability both in duration and in extent.
- ✓ Enhance the adoption of precision-irrigation and other water saving technologies (*More crop per drop*).
- ✓ Enhance recharge of aquifers and introduce sustainable water conservation practices.
- ✓ Ensure the integrated development of rainfed areas using the watershed approach towards soil and water conservation, regeneration of ground water, arresting runoff, providing livelihood options and other NRM activities.
- ✓ Promote extension activities relating to water harvesting, water management and crop alignment for farmers and grass root level field functionaries.
- ✓ Explore the feasibility of reusing treated municipal wastewater for peri-urban agriculture.
- ✓ Attract greater private investments in irrigation.

This will in turn increase agricultural production and productivity and enhance farm income.

The above objectives will be conceived through the central and state government schemes namely,

- ❖ AIBP (*Accelerated Irrigation Benefit Programme*)
 - ❖ IWMP (*Integrated Watershed Management Programme*)
 - ❖ MGNREGA (*Mahatma Gandhi National Rural Employment Guarantee Act*)
 - ❖ RKVY (*Rashtriya Krishi Vikas Yojana*)
 - ❖ NRDWP (*National Rural Drinking Water Programme*)
 - ❖ *Jalyukt Shivar Abhiyaan (DPC)*
 - ❖ *CSR activities*
 - ❖ *Mahatma Phule Jal Bhumi Sandharan Abhiyan*
 - ❖ *Adarsha Gram Yojana*
 - ❖ *Pradhan Mantri Krishi Sinchayee Yojana*
 - ❖ *Sub-Mission on Agricultural Mechanization*
-

Departments involved

- ✚ Irrigation (State, local sector, Zilla Parishad)
- ✚ Agriculture (State, Zilla Parishad)
- ✚ Zilla Parishad
- ✚ Forest/ Social Forestry
- ✚ GSDA
- ✚ NGOs, Banks (CSR)
- ✚ Agricultural Universities/ KVK

3.0 District Profile

Jalgaon district is one of the district of *Khandesh* region situated in North Western part of Maharashtra and lies between north latitudes 20°15' and 21°25' and east longitudes 74°55' and 76°28'. The total area of the district is 11,765 sq.km. covering 3.82 % area of Maharashtra and falls in parts of Survey of India degree sheets 46 K, 46 L, 46 P, 55 C, 55 D, and 56 O. The district is bounded on the north by Madhya Pradesh, on the east by Buldhana, on the west by Nashik and Dhule districts and on the south by Aurangabad district. Tapi, Girna, Waghur and Agnavati are major rivers in Jalgaon flowing 160 Km, 130 Km, 88 Km and 107 Km respectively through district. Besides this Anjani, Bori, Mor, Aner, Suki, Hivra, Bahila and Manyad are some minor rivers flowing in Jalgaon district. The district has 1501 villages divided in 7 revenue sub divisions and 15 blocks.

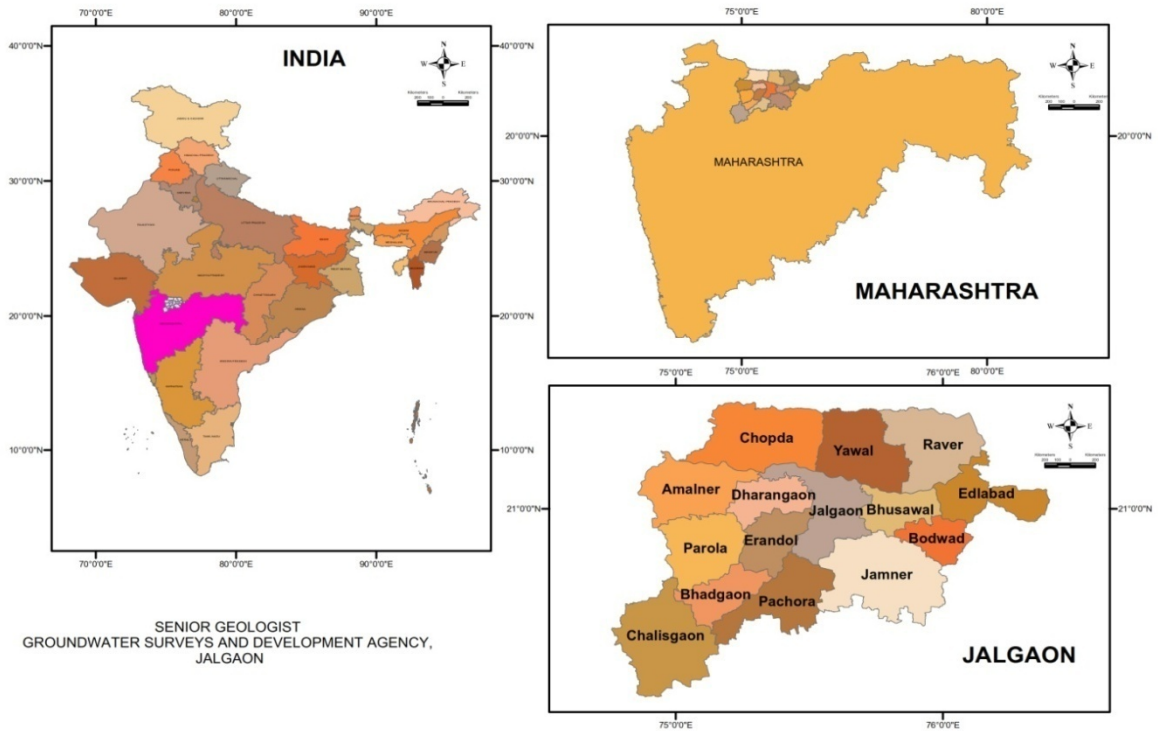
(Source- Jalgaon Collector website : www.jalgaon.nic.in)

| 3.1 District Profile | | | | |
|-------------------------------|----------------------|---------------|-------------------|--------------------|
| Sr. No. | Name of the District | District Code | Latitude | Longitude |
| 1 | Jalgaon | 499 | 20°15' N-21°25' N | 74°55' E -76°28' E |
| Source - Census Report - 2011 | | | | |

Table No. 3.2
Administrative setup of Jalgaon District

| Sr. No. | Name of Revenue Sub Division | Name of Tehsils involved |
|---------|------------------------------|-------------------------------|
| 1 | Jalgaon | Jalgaon, Jamner |
| 2 | Bhusawal | Bhusawal, Bodwad, Muktainagar |
| 3 | Faizpur | Yawal, Raver |
| 4 | Erandol | Erandol, Parola, Dharangaon |
| 5 | Chalisgaon | Chalisgaon, |
| 6 | Pachora | Pachora, Bhadgaon |
| 7 | Amalner | Amalner, Chopda |

LOCATION MAP OF JALGAON DISTRICT



Location Map Of Jalgaon District

(Courtesy- GSDA, Jalgaon)

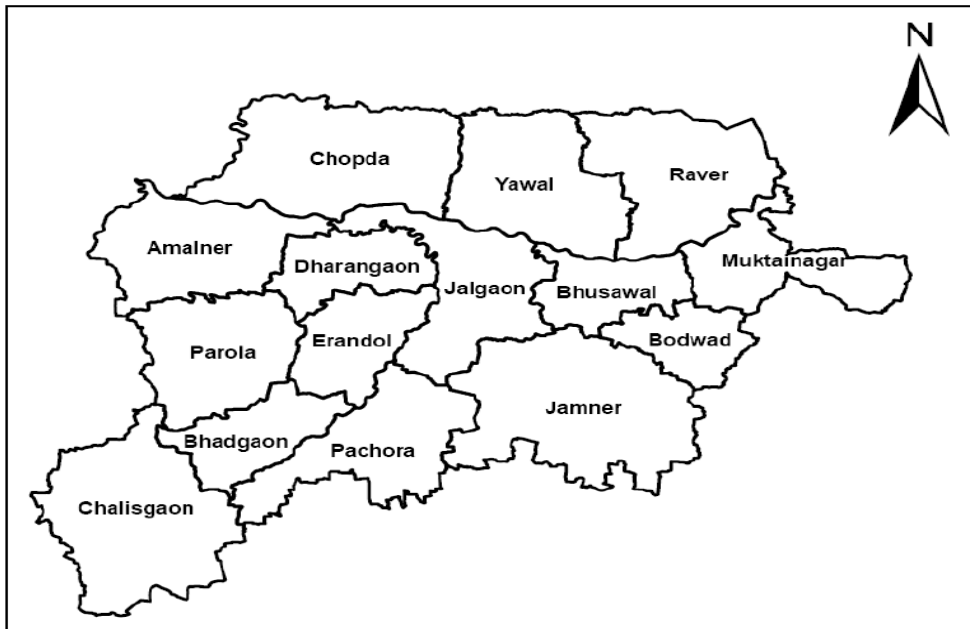


Fig 1.1 Tehsils of Jalgaon District

The district has a total population of 42,29,917 which is 3.76 % of total population of Maharashtra state and density of population is 359 Sq. Km⁻¹. Out of total population; 52.40 % are males while 47.60 % are females. About 5,32,005 are the children's in the age group of 0 to 6 years. Population of scheduled caste is 9.14 % while that of scheduled tribe is 14.05 % whereas remaining 76.82 % population belongs to general category. Jalgaon tehsil has the maximum number of scheduled caste population while Chopda tahsil has maximum number of scheduled tribe population. Whereas Chopda tehsil has the minimum number of scheduled caste population while Bodwad tahsil has minimum number of scheduled tribe population. There are total of 9,03,643 numbers of households in Jalgaon district. Jalgaon tehsil has maximum number of household *i.e.* 1,46,342 while Bodwad tehsil has minimum number of households *i.e.* 91,799. Out of total population in Jalgaon district; 31.70 % population is urban while remaining 68.30 % is rural population.

According to population census, 2011 the decadal growth rate of population in Jalgaon district has slowed down from 15.53 % in 2001 to 14.86 % in 2011. Out of total geographical area of 11,76,768 ha; cultivable area is 7,96,000 ha, forest area is 2,18,302 ha and area under non agriculture use is 33,204 ha. There is also reduction in sex ratio of Jalgaon from 933 to 925. Sex ratio in rural area is 924 while in urban area it is 927. The category wise population and household numbers are shown in table no 1.2.

1.2 Demography

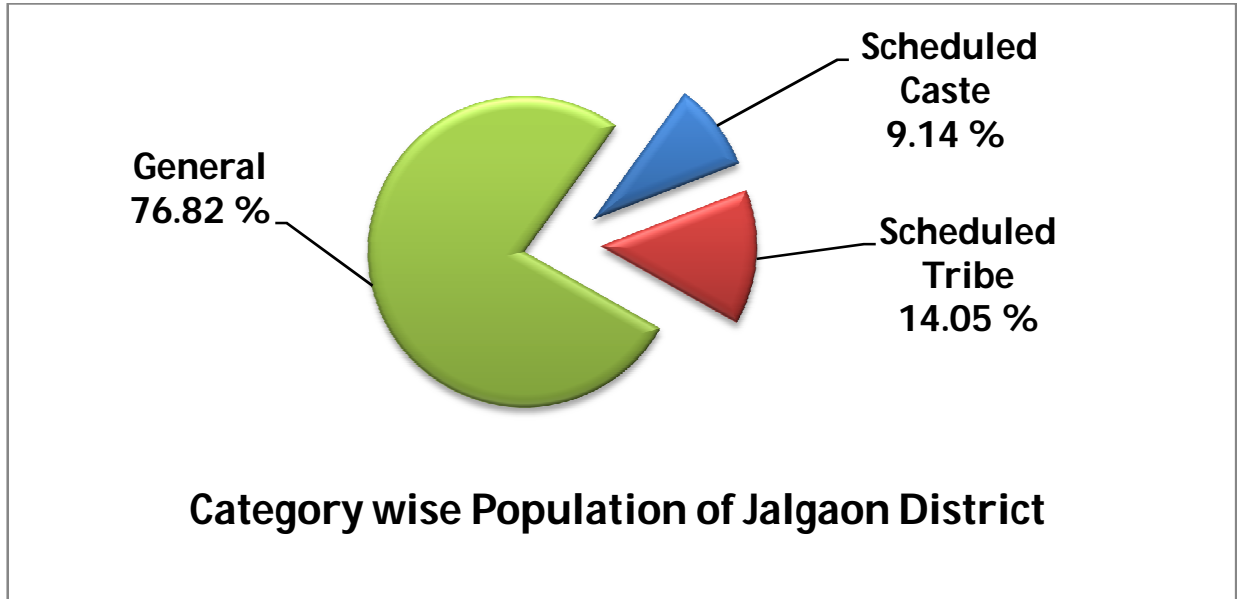
Source : Census of India

Name of the State- Maharashtra

Name of District- Jalgaon

| Sr No. | Name of the District | No. of the Villages Covered | Code of taluka | Population | | | | SC | | ST | | General | | No. of Househ olds | No. of Member s | Total |
|--------------|-------------------------|--------------------------------------|----------------------|----------------|----------------|---------------|----------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|-------|
| | | | | M | F | CH* | Total | No. of House holds | No. of Membe rs | No. of Househ olds | No. of Membe rs | No. of Househ olds | No. of Member s | | | |
| 1 | Jalgaon | 92 | 03966 | 310785 | 284228 | 81028 | 676041 | 13463 | 49195 | 20912 | 68075 | 111967 | 558771 | 146342 | 676041 | |
| 2 | Bhusawal | 54 | 03965 | 166022 | 153283 | 40156 | 359461 | 7121 | 51582 | 11061 | 23100 | 59225 | 284779 | 77407 | 359461 | |
| 3 | Bodwad | 51 | 03964 | 41602 | 38649 | 11548 | 91799 | 1904 | 12180 | 2958 | 664 | 15835 | 78955 | 20697 | 91799 | |
| 4 | Yawal | 84 | 03961 | 122022 | 115484 | 34736 | 272242 | 5592 | 25996 | 8686 | 68248 | 46503 | 177998 | 60781 | 272242 | |
| 5 | Raver | 121 | 03962 | 140730 | 131588 | 39764 | 312082 | 6313 | 36864 | 9806 | 53512 | 52504 | 221706 | 68623 | 312082 | |
| 6 | Muktainagar | 81 | 03963 | 73301 | 68315 | 21828 | 163444 | 3389 | 22159 | 5265 | 28849 | 28188 | 112436 | 36842 | 163444 | |
| 7 | Amalner | 154 | 03969 | 131667 | 123419 | 32763 | 287849 | 5588 | 21748 | 8680 | 41883 | 46471 | 224218 | 60739 | 287849 | |
| 8 | Chopada | 117 | 03960 | 155139 | 115904 | 41772 | 312815 | 5974 | 21110 | 9279 | 96521 | 49681 | 195184 | 64934 | 312815 | |
| 9 | Erandol | 65 | 03967 | 74938 | 69435 | 22148 | 166521 | 3241 | 10415 | 5034 | 24604 | 26952 | 131502 | 35227 | 166521 | |
| 10 | Dharangaon | 89 | 03968 | 79606 | 72561 | 21280 | 173447 | 3390 | 13682 | 5265 | 29524 | 28190 | 130241 | 36845 | 173447 | |
| 11 | Parola | 114 | 03970 | 89938 | 81872 | 25053 | 196863 | 3694 | 13117 | 5738 | 27119 | 30725 | 156627 | 40157 | 196863 | |
| 12 | Chalisgaon | 136 | 03972 | 189315 | 171411 | 54153 | 414879 | 7943 | 41613 | 12337 | 45800 | 66052 | 327466 | 86332 | 414879 | |
| 13 | Bhadgaon | 63 | 03971 | 89386 | 82971 | 20532 | 192889 | 3215 | 15901 | 4994 | 22712 | 26736 | 154276 | 34945 | 192889 | |
| 14 | Pachora | 128 | 03973 | 131406 | 120986 | 37236 | 289628 | 5681 | 23161 | 8824 | 28754 | 47242 | 237713 | 61747 | 289628 | |
| 15 | Jamner | 152 | 03974 | 157709 | 144240 | 48008 | 349957 | 6626 | 30550 | 10292 | 39019 | 55107 | 280388 | 72025 | 349957 | |
| Total | | 1501 | 00000 | 1953566 | 1774346 | 532005 | 4229917 | 83134 | 389273 | 129131 | 598384 | 691378 | 3272260 | 903643 | 4259917 | |

* - 1-14 Years Age Bracket



Jalgaon Rural/Urban Demographic Data

| Description | Rural | Urban |
|-------------------------|-----------|-----------|
| Population (%) | 68.30 | 31.70 |
| Total Population | 28,87,206 | 13,42,711 |
| Male Population | 15,00,514 | 6,96,851 |
| Female Population | 13,86,692 | 6,45,860 |
| Sex Ratio | 924 | 927 |
| Child Sex Ratio (0-6) | 842 | 841 |
| Child Population (0-6) | 3,75,676 | 1,56,329 |
| Male Child(0-6) | 2,03,933 | 84,894 |
| Female Child(0-6) | 1,71,743 | 71,435 |
| Child Percentage (0-6) | 0 | 11.64% |
| Male Child Percentage | 0 | 12.18% |
| Female Child Percentage | 0 | 11.06% |
| Literates | 18,77,562 | 10,14,320 |
| Male Literates | 10,80,250 | 5,48,973 |
| Female Literates | 797,312 | 465,347 |
| Average Literacy | 74.76% | 85.50% |
| Male Literacy | 83.32% | 89.71% |
| Female Literacy | 65.63% | 81.01% |

Jalgaon Demographic Data

| Description | 2011 | 2001 |
|--------------------------------------|-----------|-----------|
| Actual Population | 42,29,917 | 36,82,690 |
| Male | 21,97,365 | 19,05,493 |
| Female | 20,32,552 | 17,77,197 |
| Population Growth | 14.86% | 15.53% |
| Area Sq. Km | 11,765 | 11,765 |
| Density/km ² | 360 | 313 |
| Proportion to Maharashtra Population | 3.76% | 3.80% |
| Sex Ratio (Per 1000) | 925 | 933 |
| Child Sex Ratio (0-6 Age) | 842 | 880 |
| Average Literacy | 78.2 | 75.43 |
| Male Literacy | 85.36 | 85.91 |
| Female Literacy | 70.56 | 64.3 |
| Total Child Population (0-6 Age) | 5,32,005 | 5,25,668 |
| Male Population (0-6 Age) | 2,88,827 | 2,79,551 |
| Female Population (0-6 Age) | 2,43,178 | 2,46,117 |
| Literates | 28,91,882 | 23,81,376 |
| Male Literates | 16,29,223 | 13,96,860 |
| Female Literates | 12,62,659 | 9,84,516 |
| Child Proportion (0-6 Age) | 12.58% | 14.27% |
| Boys Proportion (0-6 Age) | 13.14% | 14.67% |
| Girls Proportion (0-6 Age) | 11.96% | 13.85% |

Jalgaon District at a Glance

| | | |
|--|------------------------------|-----------|
| 1 | Geographical Area | 11,76,827 |
| 2 | Forest Area | 2,18,567 |
| 3 | Population (as per 2011) | 42,29,917 |
| A | Male | 21,97,365 |
| B | Female | 20,32,552 |
| 4 | Live Stock Population | 19,12,242 |
| 5 | No. of Tehsils | 15 |
| 6 | No. of Villages | 1501 |
| 7 | Total Culturable Area (ha) | 8,24,133 |
| 8 | Average Annual Rainfall (mm) | 756 |
| Details Of Surface Storage Projects | | |
| Type | | |
| 9 | Major Irrigation Projects | 7 |
| | Medium Irrigation Projects | 19 |
| | Minor Irrigation Projects | 116 |
| | Minor Structures | 482 |
| | Total | 624 |

1.3 Biomass and Livestock

Name of the State: Maharashtra

Name of the District : Jalgaon

| Sr. No. | Name of Taluka | Small Animals | | | | | Large Animals | | | | Draft Animals | |
|--------------|----------------|---------------|--------------|--------------|---------------|---------------|---------------------|-----------------|-----------------------------|-----------------|---------------|---------------|
| | | Poultry (No.) | Ducks (No.) | Pigs (No.) | Goats (No.) | Sheep's (No.) | Indigenous Cow (No) | Hybrid Cow (No) | In descriptive Buffalo (No) | Any other Milch | Buffalo | Bulls |
| 1 | Jalgaon | 30754 | 1062 | 1128 | 33592 | 1079 | 9957 | 35301 | 23750 | 0 | 1153 | 10749 |
| 2 | Bhusawal | 17165 | 593 | 2032 | 28733 | 156 | 4927 | 17479 | 17032 | 0 | 827 | 5319 |
| 3 | Bodwad | 5955 | 205 | 66 | 11102 | 109 | 4883 | 17311 | 9429 | 0 | 458 | 5271 |
| 4 | Yawal | 25772 | 890 | 782 | 33055 | 1150 | 9151 | 32445 | 26107 | 0 | 1267 | 9879 |
| 5 | Raver | 21876 | 756 | 234 | 36074 | 3168 | 8588 | 30450 | 30043 | 0 | 1459 | 9272 |
| 6 | Muktainagar | 19385 | 669 | 1192 | 28944 | 20702 | 8896 | 31540 | 21359 | 0 | 1037 | 9604 |
| 7 | Amalner | 25343 | 875 | 2621 | 27616 | 271 | 10476 | 37142 | 21068 | 0 | 1023 | 11309 |
| 8 | Chopada | 17110 | 591 | 2822 | 24425 | 184 | 11660 | 41340 | 20603 | 0 | 1000 | 12588 |
| 9 | Erandol | 15208 | 525 | 1229 | 18656 | 171 | 6456 | 22889 | 16496 | 0 | 801 | 6969 |
| 10 | Dharangaon | 27158 | 938 | 1530 | 23234 | 141 | 7762 | 27521 | 16680 | 0 | 810 | 8380 |
| 11 | Parola | 14448 | 499 | 901 | 20936 | 2551 | 9341 | 33119 | 22489 | 0 | 1092 | 10084 |
| 12 | Chalisgaon | 38004 | 1313 | 4546 | 65382 | 15590 | 24298 | 86147 | 34795 | 0 | 1689 | 26231 |
| 13 | Bhadgaon | 14229 | 491 | 2231 | 18802 | 2242 | 8278 | 29351 | 19757 | 0 | 959 | 8937 |
| 14 | Pachora | 24931 | 861 | 1955 | 34457 | 762 | 12562 | 44538 | 30028 | 0 | 1458 | 13561 |
| 15 | Jamner | 32677 | 1129 | 1604 | 41177 | 938 | 18025 | 63905 | 27096 | 0 | 1316 | 19458 |
| Total | | 330015 | 11397 | 24873 | 446185 | 49214 | 155260 | 550478 | 336732 | 0 | 16349 | 167611 |

Biomass and Livestock-

The total number of livestock in Jalgaon district is 2088114. Out of which 330015 number of poultry birds 11397 and 11397 ducks are present in the district. Whereas 446185, 49214 and 24873 is the number of goats, sheep's and pigs are present in Jalgaon district respectively. The total population of indigenous cow in the district is 155260 while that of hybrid cow is 550478. Number of buffalo in the district is 336732 whereas total number of draft animals is 183960 which include 167611 bulls and 16349 buffalo bulls. The taluka wise details of Biomass and livestock status of Jalgaon district is given in table no 1.3.

Agro-ecology, Climate and Hydrology-

The total district area is divided into 7 agro-ecological zones. The first zone with low rainfall and heavy soil i.e. scarcity zone covers 141219 ha (12%) of district area. The second zone include DPAP area with medium to light soil covers 129451 ha (11%) of the district while third zone include DPAP area with heavy soil covers 14% of the district area. Fourth zone is assured rainfall zone with medium to heavy soil covers 364816 ha (31%) of the district area while fifth zone is the assured rainfall zone with light soil which covers 176524 ha (15%) of the district area whereas sixth zone includes hilly terrain with assured rainfall having light to medium soil covering 129451 ha (11%) of the district. Seventh zone includes command area with heavy soil which covers 70610 ha (6%) of the district area. The details of agro-ecological zones of the district; their average rainfall, rainy days, maximum rainfall and average weekly temperatures is given in the table no. 1.4.

Geomorphology and Physiography-

Geologically, Jalgaon is a part of the basaltic Deccan Uplands, distinguished from the rest of the upland districts by its westward facing aspect and different directional drainage. While the rest of the upland region is drained by the major rivers toward the east, the Tapi and its tributaries drain the Jalgaon region to the west towards Arabian Sea. The landscape is typically that of the Deccan lavas with residual hill ranges and broad valleys, with trap dykes introducing sharp local contrast as small chains of hillocks.

Jalgaon includes varied topographical features and landscapes, consisting of wild hills and forests, rich gardens and groves, stretches of barren plain, low rolling rocky hills and intensely gullied (bad land) topography near major river banks. Regionally, there are three well-marked belts of landscapes stretching from east to west parallel with the Tapi: in the center is the rich Tapi valley; in the north is the high and wild Satpuda hill range; and in the south and south-west there are bare ridges and rich well-watered valleys flanked by the Ajanta hill range. Jalgaon district can be divided into three main physiographic divisions i.e., Satpuda hill ranges in Northern Part with dense forest; Tapi valley consisting of Alluvial plain in central part of the district and Ajanta hill ranges flanking the hill ridges and small valleys in southern part of the district.

Out of total 11,76,827 ha area of the district 6,21,121 ha area has been surveyed by Department of Agriculture. Out of which 205002 (33 %) area is having slope of 0-3%, 260912 ha (42 %) area is having slope of 3-8% while 130438 ha (21%) area is having slope of 8-25% and remaining 24848 ha (4%) area falls in the category of above 25 % slope. Taluka wise land slope in Jalgaon district is shown in table no. 1.5

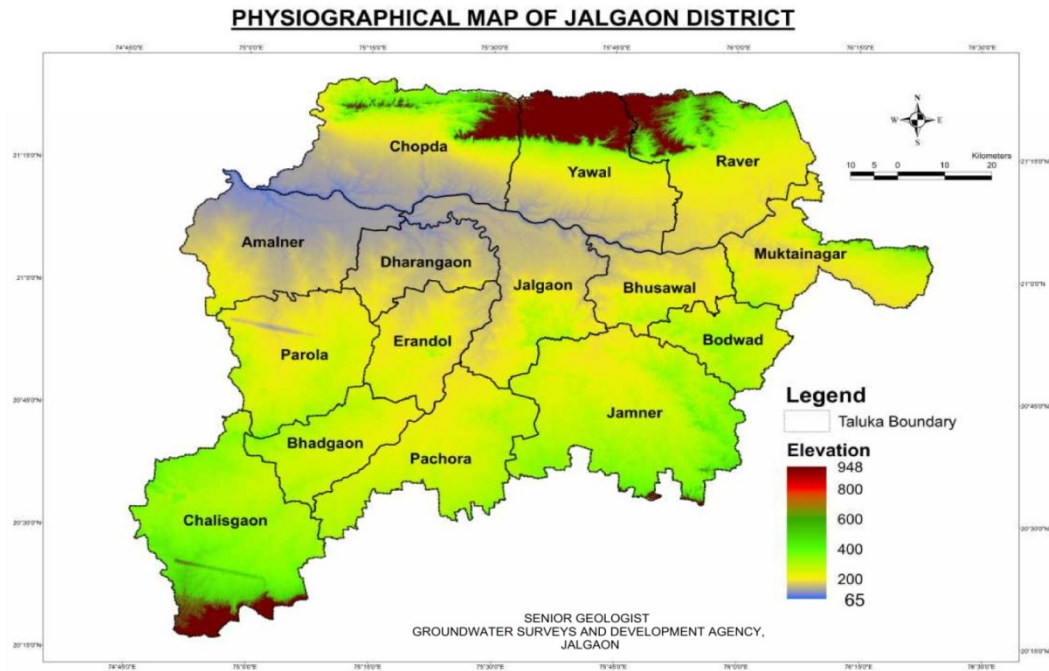


Fig. Physiological Map of Jalgaon District

(Courtesy- GSDA, Jalgaon)

Out of total surveyed area of 621121 ha; very good cultivable land i.e. class-1 soil is nil in the district. Good cultivable land (class-2) is 168436 ha (27.12%) while moderately good cultivable land (class-3) is 207474 (33.40%) whereas fairly good land suited for occasional cultivation (class-4) is 165310 (26.61%). Nearly level land not suitable for cultivation because of stoniness, wetness, etc. (class-5) is 2179 ha (0.35%) while steep slopes highly erosion prone with shallow soils (class-6) 76969 ha (12.39%) whereas land with steep slopes with severe soil erosion resulting in eroded stony and rough soil surfaces with shallow soil depth (class-7) is 753 ha (0.12%). The detailed land capability classification of Jalgaon district is given in table no. 1.5.

1.4 Agro Ecology, Climate Hydrology and Topography

Name of the state : Maharashtra

Name of the District : Jalgaon

| Sr. No. | Agro Ecological Zone Type | Type of Terrain | District Area (ha) | Normal Annual Rainfall (mm) | Average monthly Rain fall (mm) | No of Rainy Days (No) | Maximam Rain fall Intensity | | | Average Weekly Temprature (c) | | | | | | | | |
|--------------|---------------------------|--|--------------------|-----------------------------|--------------------------------|-----------------------|-----------------------------|----------------------------|----------------------------|-------------------------------|-----------|-----------|------------------|-----------|-----------|-------------------|-----------|-----------|
| | | | | | | | Upto 15 min | Beyond 15 But up to 30 Min | Beyond 30 But up to 60 Min | Period | | | | | | | | |
| | | | | | | | | | | Summer (April- | | | Winter (Oct-Mar) | | | Rainy (June-Sept) | | |
| | | | | | | | | | | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| 1 | AES-1 | Low Rainfall, Heavy Soil, Scarcity Zone | 141219 | 669 | 134 | 54 | 15 | 28 | 35 | 32 | 47 | 39 | 9 | 32 | 20 | 19 | 36 | 27 |
| 2 | AES-2 | DPAP Area with Medium to Light Soil | 129451 | 690 | 138 | 58 | 12 | 25 | 40 | 33 | 48 | 39.5 | 9 | 31 | 21 | 19 | 36 | 27 |
| 3 | AES-3 | DPAP Area with Heavy Soil | 164756 | 695 | 139 | 60 | 15 | 26 | 45 | 32 | 47 | 39 | 8 | 32 | 21 | 18 | 35 | 26 |
| 4 | AES-4 | Assured Rainfall, Medium to Heavy Soil | 364816 | 765 | 153 | 70 | 12 | 35 | 52 | 30 | 46 | 38 | 9 | 31 | 21 | 17 | 35 | 26 |
| 5 | AES-5 | Assured Rainfall, Light Soil | 176524 | 765 | 153 | 72 | 12 | 32 | 50 | 30 | 46 | 38 | 9 | 31 | 21 | 17 | 35 | 26 |
| 6 | AES-6 | Assured Rainfall, Hilly Terain, Light to Medium Soil | 129451 | 785 | 157 | 75 | 20 | 35 | 55 | 27 | 45 | 36 | 9 | 30 | 20 | 17 | 34 | 27 |
| 7 | AES-7 | Heavy Soil Command Area | 70610 | 745 | 149 | 68 | 15 | 28 | 47 | 29 | 46 | 38 | 9 | 31 | 21 | 17 | 35 | 26 |
| Total | | | 1176827 | 731 | 146 | 65 | 14 | 30 | 46 | 30 | 46 | 38 | 9 | 31 | 21 | 18 | 35 | 26 |

Source: IMD, regional ICAR Control-SAU's, KVK's etc

1.5 Soil Profile

Name of the State : Maharashtra

Name of the District : Jalgaon

| Soil Type | | Land Slope | | | |
|---|---------------|-----------------|-----------------|-----------------|--------------|
| Major Soil Classes | Area (ha) | 0 - 3 % (ha) | 3 - 8 % (ha) | 8 - 25% (ha) | >25% (ha) |
| Very Good Cultivable Land Class-1 | 0 | 0 | 0 | 0 | 0 |
| Good Cultivable Land Class-2 | 168436 | 55584 | 70743 | 35372 | 6737 |
| Moderately Good Cultivable Land Class-3 | 207474 | 68466 | 87139 | 43570 | 8299 |
| Fairly Good Land Suited for Occasional Cultivation Class-4 | 165310 | 54552 | 69430 | 34715 | 6612 |
| Nearly Level Land not Suitable for Cultivation because of Stoniness, Wetness, etc. Class-5 | 2179 | 719 | 915 | 458 | 87 |
| Steep Slopes Highly Erosion Prone with Shallow Soils Class-6 | 76969 | 25400 | 32327 | 16163 | 3079 |
| Steep Slopes with Severe Soil Erosion Resulting in Eroded Stony and Rough Soil Surfaces with Shallow Soil Depth Class-7 | 753 | 248 | 316 | 160 | 30 |
| Steeper Slopes with Severe Soil Erosion Resulting in Eroded Stony and Rough Soil Surfaces with Shallow Soil Depth Class-8 | 0 | 0 | 0 | 0 | 0 |
| Total | 621121 | 204969 | 260870 | 130438 | 24844 |

Source : LUS & NBSS, Indian Institute of Soil Science, Department of Land Resource

Note- Out of total area of 1176827 ha of the district, only 621121 ha area has been surveyed.

Climate and Rainfall-

The climate of the district is characterized by a hot summer and a general dryness throughout the year except during the south west monsoon season, which is from June to September while October and November constitute the post monsoon season. The winter season commences towards the end of November when temperatures begin to fall rapidly. December is the coldest month with the mean maximum temperature of 34.7° C, while the minimum temperature is 12.2°C. From the beginning of March, the daily temperature increases continuously. May is the hottest month with the mean maximum temperature of 41.9°C and the mean minimum temperature of 21.6° C. With the onset of the south-west monsoon by about the second week of June, the temperature falls appreciably. However the onset of monsoon is getting delayed to 3rd or 4th week of June. Except during the southwest monsoon season, when the relative humidity is high, the air is generally dry over the district. The summer months are the driest when the relative humidity is generally between 20 and 25 % in the afternoon. Winds are generally light to moderate with increase in speed during the latter half of the hot season and in the monsoon season. The winds flow predominantly from directions between west and north during the hot season. They are mostly from directions between south west and northwest during the south west monsoon season. They blow mostly from the directions between northeast and southeast during the rest of the year becoming southwesterly to north westerly in January and February. The normal annual rainfall of the district is 730.0 mm with average of 54 rainy days; which over the district varies from about 642.3 mm (In Amalner tehsil) to 826.1 mm (In Pachora tehsil). Normally onset of monsoon in Jalgaon district is during 2nd week of June while it ceases in 3rd week of October month. The average annual rainfall data of last ten years shows that most of the rainfall occurs from the month of July to mid of September. Rainfall pattern of Jalgaon district in last 10 years is shown in following table.

Rainfall pattern of Jalgaon district for last 10 years (2006 to 2015)

| Sr. No | Year | January | | | February | | | March | | | April | | | May | | | June | | | July | | |
|----------------|------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|-------------|
| | | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days |
| 1 | 2015 | 6.6 | 4.1 | 1 | 2.7 | 5 | 1 | 3.8 | 49.6 | 7 | 2 | 28.7 | 3 | 10.9 | 23.1 | 2 | 130 | 114.1 | 11 | 206.8 | 42.9 | 7 |
| 2 | 2014 | 6.6 | 0 | 0 | 2.7 | 23.7 | 1 | 3.8 | 0 | 0 | 2 | - | - | 10.9 | 0 | 0 | 130 | 20.4 | 2 | 206.8 | 260.6 | 14 |
| 3 | 2013 | 6.6 | 0 | 0 | 2.7 | 0 | 0 | 3.8 | 10.6 | 1 | 2 | - | - | 10.9 | 50.7 | 3 | 130 | 195.4 | 15 | 206.8 | 249.9 | 23 |
| 4 | 2012 | 6.6 | 0 | 0 | 2.7 | 0 | 0 | 3.8 | 0 | 0 | 2 | 0.1 | 0 | 10.9 | 7.8 | 1 | 130 | 20.8 | 3 | 206.8 | 181.5 | 18 |
| 5 | 2011 | 6.6 | 0 | 0 | 2.7 | 0 | 0 | 3.8 | 2.7 | 0 | 2 | - | - | 10.9 | 1 | 0 | 130 | 29.7 | 3 | 206.8 | 208.4 | 17 |
| 6 | 2010 | 6.6 | 3.9 | 1 | 2.7 | 0 | 0 | 3.8 | 3.1 | 0 | 2 | - | - | 10.9 | 1.6 | 0 | 130 | 94.6 | 10 | 206.8 | 296.8 | 24 |
| 7 | 2009 | 6.6 | 0 | 0 | 2.7 | 0 | 0 | 3.8 | 0 | 0 | 2 | - | - | 10.9 | - | - | 130 | 58.8 | 4 | 206.8 | 224.4 | 16 |
| 8 | 2008 | 6.6 | 0 | 0 | 2.7 | 0 | 0 | 3.8 | 0 | 0 | 2 | - | - | 10.9 | - | - | 130 | 57.3 | 6 | 206.8 | 137.2 | 14 |
| 9 | 2007 | 6.6 | 0 | 0 | 2.7 | 0 | 0 | 3.8 | 0 | 0 | 2 | - | - | 10.9 | - | - | 130 | 97.7 | 11 | 206.8 | 254.7 | 19 |
| 10 | 2006 | 6.6 | 0 | 0 | 2.7 | 0 | 0 | 3.8 | 25.4 | 3 | 2 | - | - | 10.9 | 4.1 | 1 | 130 | 119.6 | 11 | 206.8 | 344.8 | 15 |
| Average | | 6.6 | 0.8 | 0.2 | 2.7 | 2.87 | 0.2 | 3.8 | 9.14 | 1.1 | 2 | 14.4 | 1.5 | 10.9 | 12.6 | 1 | 130 | 80.8 | 7.6 | 207 | 220 | 16.7 |

Table- Rainfall pattern of Jalgaon District for last 10 years (2006 to 2015)

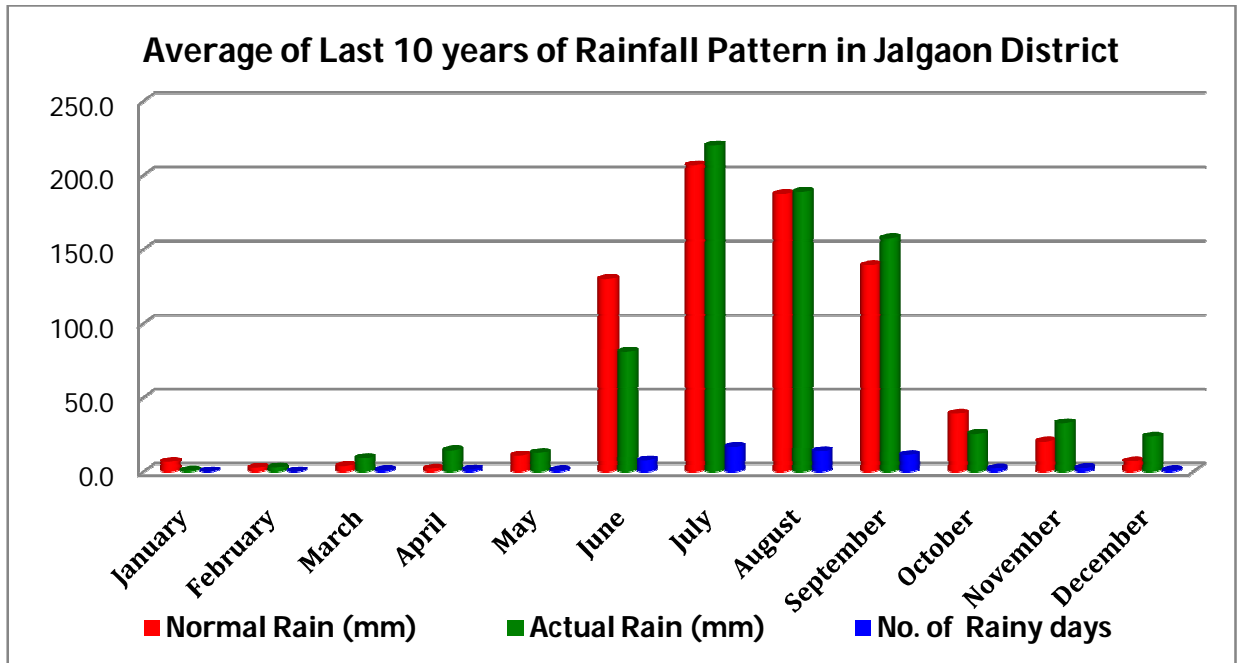
(Source : Department of Agriculture, Maharashtra website- www.mahaagri.gov.in)

Rainfall pattern of Jalgaon district for last 10 years (2006 to 2015)

| Sr. No | Year | August | | | September | | | October | | | November | | | December | | | Total Rain for Year | | |
|----------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|------------|---------------------|-------------|------------|
| | | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days | Normal Rain | Actual Rain | Rainy Days |
| 1 | 2015 | 187.3 | 127.9 | 10 | 139.2 | 134.1 | 8 | 39.1 | 1.8 | 0 | 20.3 | 1.5 | 0 | 6.9 | - | - | 755.6 | 532.8 | 50 |
| 2 | 2014 | 187.3 | 131.2 | 13 | 139.2 | 199.1 | 12 | 39.1 | 1.5 | 0 | 20.3 | 19.4 | 3 | 6.9 | 58.2 | 2 | 755.6 | 714.1 | 47 |
| 3 | 2013 | 187.3 | 208.8 | 14 | 139.2 | 182.2 | 10 | 39.1 | 66.2 | 9 | 20.3 | 0 | 0 | 6.9 | - | - | 755.6 | 963.8 | 75 |
| 4 | 2012 | 187.3 | 102.5 | 10 | 139.2 | 86.2 | 9 | 39.1 | 15.3 | 2 | 20.3 | 0 | 0 | 6.9 | - | - | 755.6 | 414.2 | 43 |
| 5 | 2011 | 187.3 | 259.6 | 21 | 139.2 | 110.4 | 11 | 39.1 | 4.4 | 1 | 20.3 | 0 | 0 | 6.9 | - | - | 755.6 | 616.2 | 53 |
| 6 | 2010 | 187.3 | 238.5 | 19 | 139.2 | 118.3 | 9 | 39.1 | 22.3 | 2 | 20.3 | 79.8 | 8 | 6.9 | 0 | 0 | 755.6 | 858.9 | 73 |
| 7 | 2009 | 187.3 | 113.7 | 8 | 139.2 | 117.2 | 6 | 39.1 | 69.2 | 3 | 20.3 | 128.2 | 6 | 6.9 | 12.5 | 1 | 755.6 | 724 | 44 |
| 8 | 2008 | 187.3 | 96.3 | 15 | 139.2 | 235.8 | 16 | 39.1 | 17.1 | 2 | 20.3 | - | - | 6.9 | - | - | 755.6 | 543.7 | 53 |
| 9 | 2007 | 187.3 | 132.9 | 11 | 139.2 | 156.9 | 16 | 39.1 | 0 | 0 | 20.3 | - | - | 6.9 | - | - | 755.6 | 642.2 | 57 |
| 10 | 2006 | 187.3 | 476.6 | 17 | 139.2 | 233.9 | 16 | 39.1 | 56.6 | 2 | 20.3 | - | - | 6.9 | - | - | 755.6 | 1261 | 65 |
| Average | | 187 | 189 | 13.8 | 139 | 157 | 11.3 | 39.1 | 25.4 | 2.1 | 20.3 | 32.7 | 2.43 | 6.9 | 23.6 | 1 | 756 | 727 | 56 |

Table- Rainfall pattern of Jalgaon District for last 10 years (2006 to 2015)

(Source : Department of Agriculture, Maharashtra website- www.mahaagri.gov.in)



Graph- Average of last 10 years of rainfall pattern in Jalgaon District

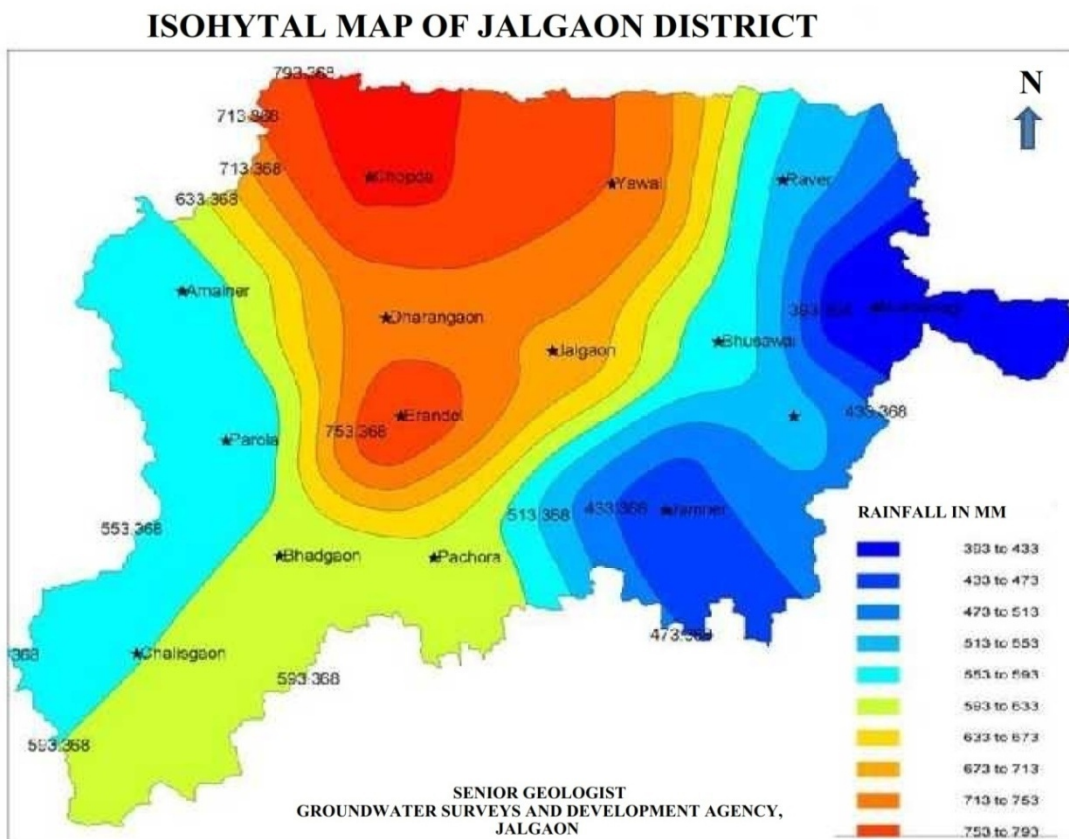
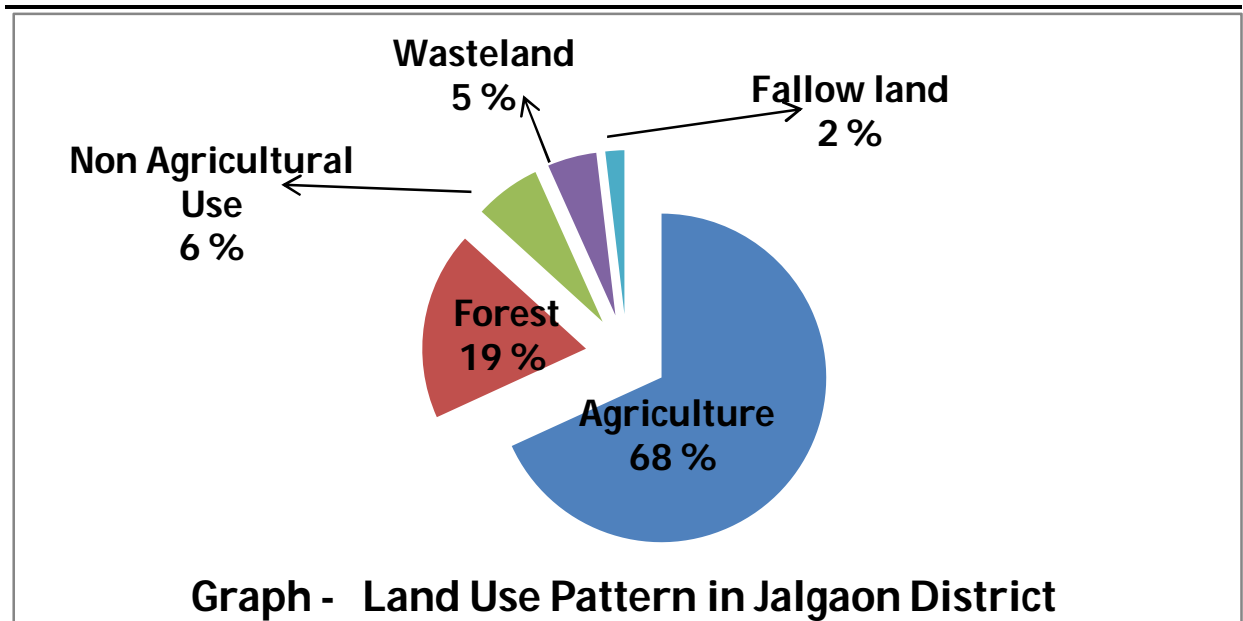


Fig. Isohytal Map of Jalgaon District

(Courtesy- GSDA, Jalgaon)



7.0 Land use pattern in Jalgaon district-

Out of total geographic area (11,76,827 ha.) of the district net cultivated area is 8,04,465 ha whereas gross cultivated area is 9,81,137 ha. Area under forest is 2,18,302 ha and area under wasteland and other use is about 43,747 ha. and 1,10,048 ha. respectively.

(Source : Department of Agriculture, Maharashtra website- www.mahaagri.gov.in)

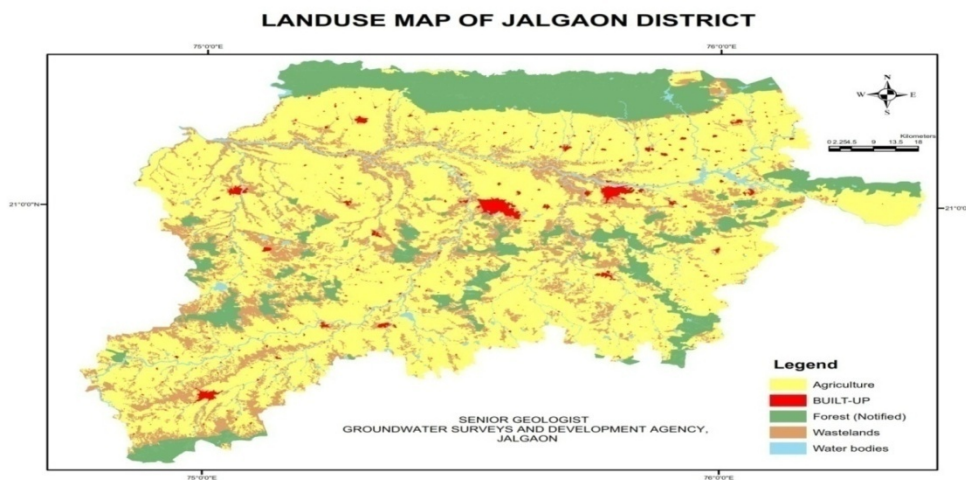


Fig. 7.1 Landuse Map of Jalgaon District

(Courtesy- GSDA, Jalgaon)

1.7 Land Use Pattern

Name of the State : Maharashtra

Name of the District : Jalgaon

Area in ha

| Sr. No. | Name of the Taluka | No. of Villages Covered | Total Geographical Area | Area under Agriculture | | | | Area under forest | Area under wasteland | Area under other uses |
|--------------|--------------------|-------------------------|-------------------------|------------------------|-------------------|--------------------------------|------------------------|-------------------|----------------------|-----------------------|
| | | | | Gross Cropped Area (1) | Net Sown Area (2) | Area sown more than once (1-2) | Cropping Intensity (%) | | | |
| 1 | Jalgaon | 92 | 95436 | 75660 | 62306 | 13354 | 121.4 | 17015 | 3791 | 12324 |
| 2 | Bhusawal | 54 | 47470 | 34802 | 28304 | 6498 | 123.0 | 13513 | 4064 | 1589 |
| 3 | Bodwad | 51 | 35545 | 31039 | 26639 | 4400 | 116.5 | 6475 | 852 | 1579 |
| 4 | Yawal | 84 | 95438 | 67797 | 52324 | 15473 | 129.6 | 33293 | 5224 | 4597 |
| 5 | Raver | 121 | 93570 | 82055 | 61120 | 20935 | 134.3 | 26017 | 832 | 5601 |
| 6 | Muktainagar | 81 | 55611 | 47983 | 39768 | 8215 | 120.7 | 12150 | 2452 | 1241 |
| 7 | Amalner | 154 | 84415 | 73876 | 63355 | 10521 | 116.6 | 2170 | 3597 | 15293 |
| 8 | Chopada | 117 | 95436 | 87110 | 61456 | 25654 | 141.7 | 21839 | 2303 | 9838 |
| 9 | Erandol | 65 | 49442 | 40927 | 33687 | 7240 | 121.5 | 3765 | 1215 | 10775 |
| 10 | Dharangaon | 89 | 48014 | 39778 | 32084 | 7694 | 124.0 | 2327 | 3256 | 10347 |
| 11 | Parola | 114 | 79121 | 60917 | 52077 | 8840 | 117.0 | 10640 | 4807 | 11597 |
| 12 | Chalisgaon | 136 | 121763 | 99666 | 89569 | 10097 | 111.3 | 16935 | 5307 | 9952 |
| 13 | Bhadgaon | 63 | 57453 | 48415 | 38870 | 9545 | 124.6 | 10002 | 1510 | 7071 |
| 14 | Pachora | 128 | 82041 | 73628 | 61578 | 12050 | 119.6 | 11343 | 1825 | 7295 |
| 15 | Jamner | 152 | 136072 | 117484 | 101328 | 16156 | 115.9 | 31083 | 2712 | 949 |
| Total | | 1501 | 1176827 | 981137 | 804465 | 176672 | 122.0 | 218567 | 43747 | 110048 |

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Jalgaon

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|--------------|--------------------------|----------|-------------|--------------------|--------------|--------------|---|----------|--------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 801 | 4923 | 5724 | 7626 | 0 | 7626 | 1819 | 0 | 1819 | 10246 | 4923 | 15169 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 1327 | 8148 | 9475 | 3902 | | 3902 | 7 | 0 | 7 | 5236 | 8148 | 13384 | 0 | 0 | 0 |
| D) Oilseeds | 694 | 5509 | 6203 | 0 | 0 | 0 | 0 | 0 | 0 | 694 | 5509 | 6203 | 0 | 0 | 0 |
| E) Fibre | 3556 | 21844 | 25400 | 0 | 0 | 0 | 0 | 0 | 0 | 3556 | 21844 | 25400 | 0 | 0 | 0 |
| F) Any other crop | 2780 | 0 | 2780 | 0 | 0 | 0 | 0 | 0 | 0 | 2780 | 0 | 2780 | 12724 | 0 | 12724 |
| Total | 9158 | 40424 | 49582 | 11528 | 0 | 11528 | 1826 | 0 | 1826 | 22512 | 40424 | 62936 | 12724 | 0 | 12724 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Bhusawal

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 1023 | 3920 | 4943 | 2180 | 0 | 2180 | 331 | 0 | 331 | 3534 | 3920 | 7454 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 245 | 3687 | 3932 | 3902 | 0 | 3902 | 0 | 0 | 0 | 4147 | 3687 | 7834 | 0 | 0 | 0 |
| D) Oilseeds | 80 | 1590 | 1670 | 0 | 0 | 0 | 84 | 0 | 84 | 164 | 1590 | 1754 | 0 | 0 | 0 |
| E) Fibre | 878 | 13752 | 14630 | 0 | 0 | 0 | 0 | 0 | 0 | 878 | 13752 | 14630 | 0 | 0 | 0 |
| F) Any other crop | 1279 | 0 | 1279 | 0 | 0 | 0 | 0 | 0 | 0 | 1279 | 0 | 1279 | 1850 | 0 | 1850 |
| Total | 3505 | 22949 | 26454 | 6082 | 0 | 6082 | 415 | 0 | 415 | 10002 | 22949 | 32951 | 1850 | 0 | 1850 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Bodwad

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|-------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 1462 | 4922 | 6384 | 1368 | 0 | 1368 | 520 | 0 | 520 | 3350 | 4922 | 8272 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 317 | 3211 | 3528 | 1040 | 0 | 1040 | 0 | | 0 | 1357 | 3211 | 4568 | 0 | 0 | 0 |
| D) Oilseeds | 150 | 1664 | 1814 | 0 | 0 | 0 | 215 | 0 | 215 | 365 | 1664 | 2029 | 0 | 0 | 0 |
| E) Fibre | 1229 | 12425 | 13654 | 0 | 0 | 0 | 0 | 0 | 0 | 1229 | 12425 | 13654 | 0 | 0 | 0 |
| F) Any other crop | 44 | 0 | 44 | 721 | 0 | 721 | 536 | 0 | 536 | 1301 | 0 | 1301 | 1215 | 0 | 1215 |
| Total | 3202 | 22222 | 25424 | 3129 | 0 | 3129 | 1271 | 0 | 1271 | 7602 | 22222 | 29824 | 1215 | 0 | 1215 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Yawal

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|--------------|--------------------------|----------|-------------|--------------------|--------------|--------------|---|----------|--------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 4583 | 4965 | 9548 | 4274 | 0 | 4274 | 1634 | 0 | 1634 | 10491 | 4965 | 15456 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 3143 | 3407 | 6550 | 7698 | 0 | 7698 | 0 | 0 | 0 | 10841 | 3407 | 14248 | 0 | 0 | 0 |
| D) Oilseeds | 2311 | 3040 | 5351 | 0 | 0 | 0 | 207 | 0 | 207 | 2518 | 3040 | 5558 | 0 | 0 | 0 |
| E) Fibre | 7126 | 7720 | 14846 | 0 | 0 | 0 | 0 | 0 | 0 | 7126 | 7720 | 14846 | 0 | 0 | 0 |
| F) Any other crop | 4456 | 0 | 4456 | 720 | 0 | 720 | 940 | 0 | 940 | 6116 | 0 | 6116 | 11573 | 0 | 11573 |
| Total | 21619 | 19132 | 40751 | 12692 | 0 | 12692 | 2781 | 0 | 2781 | 37092 | 19132 | 56224 | 11573 | 0 | 11573 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Raver

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|--------------|--------------------------|----------|-------------|--------------------|--------------|--------------|--|----------|--------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 3057 | 3449 | 6506 | 12800 | 0 | 12800 | 536 | 0 | 536 | 16393 | 3449 | 19842 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 3025 | 3410 | 6435 | 5927 | 0 | 5927 | 216 | 0 | 216 | 9168 | 3410 | 12578 | 0 | 0 | 0 |
| D) Oilseeds | 2305 | 3729 | 6034 | 120 | 0 | 120 | 56 | 0 | 56 | 2481 | 3729 | 6210 | 0 | 0 | 0 |
| E) Fibre | 7858 | 8862 | 16720 | 0 | 0 | 0 | 0 | 0 | 0 | 7858 | 8862 | 16720 | 0 | 0 | 0 |
| F) Any other crop | 3051 | 0 | 3051 | 754 | 0 | 754 | 526 | 0 | 526 | 4331 | 0 | 4331 | 22374 | 0 | 22374 |
| Total | 19296 | 19450 | 38746 | 19601 | 0 | 19601 | 1334 | 0 | 1334 | 40231 | 19450 | 59681 | 22374 | 0 | 22374 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Muktainagar

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|-------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 2688 | 5764 | 8452 | 4941 | 0 | 4941 | 760 | 0 | 760 | 8389 | 5764 | 14153 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 377 | 3048 | 3425 | 1075 | 0 | 1075 | 0 | 0 | 0 | 1452 | 3048 | 4500 | 0 | 0 | 0 |
| D) Oilseeds | 105 | 929 | 1034 | 0 | 0 | 0 | 315 | 0 | 315 | 420 | 929 | 1349 | 0 | 0 | 0 |
| E) Fibre | 2032 | 16440 | 18472 | 0 | 0 | 0 | 0 | 0 | 0 | 2032 | 16440 | 18472 | 0 | 0 | 0 |
| F) Any other crop | 1063 | 0 | 1063 | 629 | 0 | 629 | 495 | 0 | 495 | 2187 | 0 | 2187 | 7322 | 0 | 7322 |
| Total | 6265 | 26181 | 32446 | 6645 | 0 | 6645 | 1570 | 0 | 1570 | 14480 | 26181 | 40661 | 7322 | 0 | 7322 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Amalner

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|-------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 2690 | 8671 | 11361 | 5122 | 0 | 5122 | 940 | 0 | 940 | 8752 | 8671 | 17423 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 444 | 6956 | 7400 | 2506 | | 2506 | 0 | 0 | 0 | 2950 | 6956 | 9906 | 0 | 0 | 0 |
| D) Oilseeds | 161 | 2790 | 2951 | 0 | 0 | 0 | 531 | 0 | 531 | 692 | 2790 | 3482 | 0 | 0 | 0 |
| E) Fibre | 2315 | 36260 | 38575 | | 0 | 0 | 0 | 0 | 0 | 2315 | 36260 | 38575 | 0 | 0 | 0 |
| F) Any other crop | 435 | 0 | 435 | 832 | 0 | 832 | 590 | 0 | 590 | 1857 | 0 | 1857 | 2633 | 0 | 2633 |
| Total | 6045 | 54677 | 60722 | 8460 | 0 | 8460 | 2061 | 0 | 2061 | 16566 | 54677 | 71243 | 2633 | 0 | 2633 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Chopada

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|--------------|--------------------------|----------|-------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 4000 | 6256 | 10256 | 10094 | 0 | 10094 | 2770 | 0 | 2770 | 16864 | 6256 | 23120 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 2795 | 4363 | 7158 | 4939 | 0 | 4939 | 0 | 0 | 0 | 7734 | 4363 | 12097 | 0 | 0 | 0 |
| D) Oilseeds | 1360 | 2251 | 3611 | 0 | 0 | 0 | 478 | 0 | 478 | 1838 | 2251 | 4089 | 0 | 0 | 0 |
| E) Fibre | 11950 | 18685 | 30635 | 0 | 0 | 0 | 0 | 0 | 0 | 11950 | 18685 | 30635 | 0 | 0 | 0 |
| F) Any other crop | 4251 | | 4251 | 5185 | 0 | 5185 | 2188 | 0 | 2188 | 11624 | 0 | 11624 | 5545 | 0 | 5545 |
| Total | 24356 | 31555 | 55911 | 20218 | 0 | 20218 | 5436 | 0 | 5436 | 50010 | 31555 | 81565 | 5545 | 0 | 5545 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Erandol

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 2299 | 5468 | 7767 | 2564 | 0 | 2564 | 284 | 0 | 284 | 5147 | 5468 | 10615 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 457 | 3344 | 3801 | 1523 | 0 | 1523 | 0 | 0 | 0 | 1980 | 3344 | 5324 | 0 | 0 | 0 |
| D) Oilseeds | 315 | 2374 | 2689 | 1075 | 0 | 1075 | 42 | 0 | 42 | 1432 | 2374 | 3806 | 0 | 0 | 0 |
| E) Fibre | 1994 | 14619 | 16613 | 0 | 0 | 0 | 0 | 0 | 0 | 1994 | 14619 | 16613 | 0 | 0 | 0 |
| F) Any other crop | 1232 | | 1232 | 1500 | 0 | 1500 | 252 | 0 | 252 | 2984 | 0 | 2984 | 1585 | 0 | 1585 |
| Total | 6297 | 25805 | 32102 | 6662 | 0 | 6662 | 578 | 0 | 578 | 13537 | 25805 | 39342 | 1585 | 0 | 1585 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Parola

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 2690 | 8991 | 11681 | 4683 | 0 | 4683 | 293 | 0 | 293 | 7666 | 8991 | 16657 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 1218 | 4078 | 5296 | 2240 | 0 | 2240 | 0 | 0 | 0 | 3458 | 4078 | 7536 | 0 | 0 | 0 |
| D) Oilseeds | 290 | 1360 | 1650 | 0 | 0 | 0 | 47 | 0 | 47 | 337 | 1360 | 1697 | 0 | 0 | 0 |
| E) Fibre | 7262 | 24314 | 31576 | 0 | 0 | 0 | | 0 | 0 | 7262 | 24314 | 31576 | 0 | 0 | 0 |
| F) Any other crop | 567 | 0 | 567 | 1410 | 0 | 1410 | 167 | 0 | 167 | 2144 | 0 | 2144 | 1307 | 0 | 1307 |
| Total | 12027 | 38743 | 50770 | 8333 | 0 | 8333 | 507 | 0 | 507 | 20867 | 38743 | 59610 | 1307 | 0 | 1307 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Dharangaon

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|-------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 1516 | 4533 | 6049 | 3270 | 0 | 3270 | 954 | 0 | 954 | 5740 | 4533 | 10273 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 1049 | 3147 | 4196 | 1352 | 0 | 1352 | 0 | 0 | 0 | 2401 | 3147 | 5548 | 0 | 0 | 0 |
| D) Oilseeds | 1051 | 3169 | 4220 | 0 | 0 | 0 | 610 | 0 | 610 | 1661 | 3169 | 4830 | 0 | 0 | 0 |
| E) Fibre | 3845 | 11534 | 15379 | 0 | 0 | 0 | 0 | 0 | 0 | 3845 | 11534 | 15379 | 0 | 0 | 0 |
| F) Any other crop | 568 | 0 | 568 | 943 | 0 | 943 | 565 | 0 | 565 | 2076 | 0 | 2076 | 1672 | 0 | 1672 |
| Total | 8029 | 22383 | 30412 | 5565 | 0 | 5565 | 2129 | 0 | 2129 | 15723 | 22383 | 38106 | 1672 | 0 | 1672 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Pachora

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|-------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 3880 | 9500 | 13380 | 5570 | 0 | 5570 | 1740 | 0 | 1740 | 11190 | 9500 | 20690 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 1012 | 2475 | 3487 | 1600 | 0 | 1600 | 535 | 0 | 535 | 3147 | 2475 | 5622 | 0 | 0 | 0 |
| D) Oilseeds | 955 | 2495 | 3450 | 0 | 0 | 0 | 0 | 0 | 0 | 955 | 2495 | 3450 | 0 | 0 | 0 |
| E) Fibre | 10260 | 25040 | 35300 | 0 | 0 | 0 | 0 | 0 | 0 | 10260 | 25040 | 35300 | 0 | 0 | 0 |
| F) Any other crop | 2090 | 0 | 2090 | 1455 | 0 | 1455 | 1150 | 0 | 1150 | 4695 | 0 | 4695 | 3871 | 0 | 3871 |
| Total | 18197 | 39510 | 57707 | 8625 | 0 | 8625 | 3425 | 0 | 3425 | 30247 | 39510 | 69757 | 3871 | 0 | 3871 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Chalisgaon

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|-------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 4410 | 15635 | 20045 | 3703 | 0 | 3703 | 670 | | 670 | 8783 | 15635 | 24418 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 928 | 3283 | 4211 | 1414 | 0 | 1414 | 0 | 0 | 0 | 2342 | 3283 | 5625 | 0 | 0 | 0 |
| D) Oilseeds | 200 | 1452 | 1652 | 610 | 0 | 610 | 68 | 0 | 68 | 878 | 1452 | 2330 | 0 | 0 | 0 |
| E) Fibre | 11850 | 42015 | 53865 | 0 | 0 | 0 | 0 | 0 | 0 | 11850 | 42015 | 53865 | 0 | 0 | 0 |
| F) Any other crop | 4830 | 0 | 4830 | 1792 | 0 | 1792 | 1840 | 0 | 1840 | 8462 | 0 | 8462 | 4966 | 0 | 4966 |
| Total | 22218 | 62385 | 84603 | 7519 | 0 | 7519 | 2578 | 0 | 2578 | 32315 | 62385 | 94700 | 4966 | 0 | 4966 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Bhadgaon

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|-------------|--------------------------|----------|------------|--------------------|--------------|--------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 1680 | 6320 | 8000 | 6760 | 0 | 6760 | 165 | 0 | 165 | 8605 | 6320 | 14925 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 593 | 2232 | 2825 | 824 | 0 | 824 | 0 | 0 | 0 | 1417 | 2232 | 3649 | 0 | 0 | 0 |
| D) Oilseeds | 210 | 855 | 1065 | 0 | 0 | 0 | 56 | 0 | 56 | 266 | 855 | 1121 | 0 | 0 | 0 |
| E) Fibre | 4725 | 17775 | 22500 | 0 | 0 | 0 | 0 | 0 | 0 | 4725 | 17775 | 22500 | 0 | 0 | 0 |
| F) Any other crop | 955 | 0 | 955 | 1525 | 0 | 1525 | 215 | 0 | 215 | 2695 | 0 | 2695 | 3525 | 0 | 3525 |
| Total | 8163 | 27182 | 35345 | 9109 | 0 | 9109 | 436 | 0 | 436 | 17708 | 27182 | 44890 | 3525 | 0 | 3525 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District : Jalgaon

Name of the Block : Jamner

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|--------------|--------------|-------------------|----------|--------------|--------------------------|----------|-------------|--------------------|--------------|---------------|--|----------|-------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 2073 | 23554 | 25627 | 8950 | 0 | 8950 | 5442 | 0 | 5442 | 16465 | 23554 | 40019 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 194 | 5266 | 5460 | 1479 | | 1479 | 0 | 0 | 0 | 1673 | 5266 | 6939 | 0 | 0 | 0 |
| D) Oilseeds | 130 | 4625 | 4755 | 0 | 0 | 0 | 65 | 0 | 65 | 195 | 4625 | 4820 | 0 | 0 | 0 |
| E) Fibre | 2016 | 58844 | 60860 | 0 | 0 | 0 | 0 | 0 | 0 | 2016 | 58844 | 60860 | 0 | 0 | 0 |
| F) Any other crop | 1070 | 0 | 1070 | 0 | 0 | 0 | 220 | 0 | 220 | 1290 | 0 | 1290 | 3556 | 0 | 3556 |
| Total | 5483 | 92289 | 97772 | 10429 | 0 | 10429 | 5727 | 0 | 5727 | 21639 | 92289 | 113928 | 3556 | 0 | 3556 |

Source : Department of Agriculture Statistic of state, agristat

2.1 Area wise, crop-wise Irrigation status

Name of the State : Maharashtra

Name of the District- Jalgaon

| Crop Type | Kharif (Area in ha) | | | Rabi (Area in ha) | | | Summer Crop (Area in ha) | | | Total (Area in ha) | | | Horticulture & Plantation Crop (area in ha) | | |
|-------------------|---------------------|---------------|---------------|-------------------|----------|---------------|--------------------------|----------|--------------|--------------------|---------------|---------------|--|----------|--------------|
| | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total | Irrigated | Rainfed | Total |
| A) Cereals | 38852 | 116871 | 155723 | 83905 | 0 | 83905 | 18858 | 0 | 18858 | 141615 | 116871 | 258486 | 0 | 0 | 0 |
| B) Coarse Cereals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C) Pulses | 17124 | 60055 | 77179 | 41421 | 0 | 41421 | 758 | 0 | 758 | 59303 | 60055 | 119358 | 0 | 0 | 0 |
| D) Oilseeds | 10317 | 37832 | 48149 | 1805 | 0 | 1805 | 2774 | 0 | 2774 | 14896 | 37832 | 52728 | 0 | 0 | 0 |
| E) Fibre | 78896 | 330129 | 409025 | 0 | 0 | 0 | 0 | 0 | 0 | 78896 | 330129 | 409025 | 0 | 0 | 0 |
| F) Any other crop | 28671 | 0 | 28671 | 17466 | 0 | 17466 | 9684 | 0 | 9684 | 55821 | 0 | 55821 | 85718 | 0 | 85718 |
| Total | 173860 | 544887 | 718747 | 144597 | 0 | 144597 | 32074 | 0 | 32074 | 350531 | 544887 | 895418 | 85718 | 0 | 85718 |

Source : Department of Agriculture Statistic of state, agristat

Irrigation Planning of Jalgaon District of Maharashtra State (India)

2.2 Production and Productivity of Major Crop

Name of the Block : Jalgaon

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|--------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 5724 | 0 | 9475 | 6203 | 25400 | 2780 | 49582 | 147547.6 | 365 | -- | 46797.38 | 511 | -- | 194344.98 | 438 | -- |
| B. Rabi | 9475 | 0 | 3902 | 0 | 0 | 0 | 13377 | 0 | 0 | -- | 55103.84 | 478 | -- | 55103.84 | 239 | -- |
| C. Summer | 1819 | 0 | 7 | 0 | 0 | 0 | 1826 | 0 | 0 | -- | 3195.5 | 175 | -- | 3195.5 | 87.5 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 12724 | 12724 | 0 | 0 | -- | 2831726.2 | 22255 | -- | 2831726.2 | 11127.5 | -- |
| Total | 17018 | 0 | 13384 | 6203 | 25400 | 15504 | 77509 | 147547.6 | 365 | -- | 2936822.92 | 5854.75 | -- | 3084370.52 | 3109.875 | -- |

Source : DAP,Agriculture statistics

Name of the Block : Bhusawal

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|-------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 4943 | 0 | 3932 | 1670 | 14630 | 1279 | 26454 | 75272.72 | 328 | -- | 16094.96 | 459.2 | -- | 91367.68 | 393.6 | -- |
| B. Rabi | 2180 | 0 | 3902 | 0 | 0 | 0 | 6082 | 0 | 0 | -- | 29740.98 | 489 | -- | 29740.98 | 244.5 | -- |
| C. Summer | 331 | 0 | 0 | 84 | 0 | 0 | 415 | 0 | 0 | -- | 742.85 | 179 | -- | 742.85 | 89.5 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 1850 | 1850 | 0 | 0 | -- | 367687.5 | 19875 | -- | 367687.5 | 9937.5 | -- |
| Total | 7454 | 0 | 7834 | 1754 | 14630 | 3129 | 34801 | 75272.72 | 328 | -- | 414266.29 | 5250.55 | -- | 489539.01 | 2789.275 | -- |

Source : DAP,Agriculture statistics

Irrigation Planning of Jalgaon District of Maharashtra State (India)

Name of the Block : Bodwad

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|-------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 6384 | 0 | 3528 | 1814 | 13654 | 44 | 25424 | 63999.36 | 288 | -- | 12904.06 | 403 | -- | 76903.42 | 345.5 | -- |
| B. Rabi | 1368 | 0 | 1040 | 0 | 0 | 721 | 3129 | 0 | 0 | -- | 15300.81 | 489 | -- | 15300.81 | 244.5 | -- |
| C. Summer | 520 | 0 | 0 | 215 | 0 | 536 | 1271 | 0 | 0 | -- | 5655.95 | 445 | -- | 5655.95 | 222.5 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 1215 | 1215 | 0 | 0 | -- | 139457.7 | 11478 | -- | 139457.7 | 5739 | -- |
| Total | 8272 | 0 | 4568 | 2029 | 13654 | 2516 | 31039 | 63999.36 | 288 | -- | 173318.52 | 3203.75 | -- | 237317.88 | 1745.875 | -- |

Source : DAP,Agriculture statistics

Name of the Block : Yawal

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|--------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 9548 | 0 | 6550 | 5351 | 14846 | 4456 | 40751 | 76145.36 | 398 | -- | 108527.38 | 502 | -- | 184672.74 | 450 | -- |
| B. Rabi | 4274 | 0 | 7698 | 0 | 0 | 720 | 12692 | 0 | 0 | -- | 61936.96 | 488 | -- | 61936.96 | 244 | -- |
| C. Summer | 1634 | 0 | 0 | 207 | 0 | 940 | 2781 | 0 | 0 | -- | 14600.25 | 525 | -- | 14600.25 | 262.5 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 11573 | 11573 | 0 | 0 | -- | 2193430.69 | 18953 | -- | 2193430.69 | 9476.5 | -- |
| Total | 15456 | 0 | 14248 | 5558 | 14846 | 17689 | 67797 | 76145.36 | 398 | -- | 2378495.28 | 5117 | -- | 2454640.64 | 2757.5 | -- |

Source : DAP,Agriculture statistics

Irrigation Planning of Jalgaon District of Maharashtra State (India)

Name of the Block : Raver

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|--------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 6506 | 0 | 6435 | 6034 | 16720 | 3051 | 38746 | 78189 | 402 | -- | 89340.48 | 463 | -- | 167529.48 | 432.5 | -- |
| B. Rabi | 12800 | 0 | 5927 | 120 | 0 | 754 | 19601 | 0 | 0 | -- | 95848.89 | 489 | -- | 95848.89 | 244.5 | -- |
| C. Summer | 536 | 0 | 216 | 56 | 0 | 526 | 1334 | 0 | 0 | -- | 6003 | 450 | -- | 6003 | 225 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 22374 | 22374 | 0 | 0 | -- | 4173869.7 | 18655 | -- | 4173869.7 | 9327.5 | -- |
| Total | 19842 | 0 | 12578 | 6210 | 16720 | 26705 | 82055 | 78189 | 402 | -- | 4365062.07 | 5014.25 | -- | 4443251.07 | 2708.125 | -- |

Source : DAP,Agriculture statistics

Name of the Block : Muktainagar

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 8452 | 0 | 3425 | 1034 | 18472 | 1063 | 32446 | 90324.45 | 345 | -- | 25686.5 | 410 | -- | 116010.95 | 377.5 | -- |
| B. Rabi | 4921 | 0 | 1075 | 0 | 0 | 629 | 6625 | 0 | 0 | -- | 31098.6 | 468 | -- | 31098.6 | 234 | -- |
| C. Summer | 760 | 0 | 0 | 315 | 0 | 495 | 1570 | 0 | 0 | -- | 6892.3 | 439 | -- | 6892.3 | 219.5 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 7322 | 7322 | 0 | 0 | -- | 1089293.94 | 14877 | -- | 1089293.94 | 7438.5 | -- |
| Total | 14133 | 0 | 4500 | 1349 | 18472 | 9509 | 47963 | 90324.45 | 345 | -- | 1152971.34 | 4048.5 | -- | 1243295.79 | 2196.75 | -- |

Source : DAP,Agriculture statistics

Irrigation Planning of Jalgaon District of Maharashtra State (India)

Name of the Block : Amalner

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 11361 | 0 | 7400 | 2951 | 38575 | 435 | 60722 | 174419.63 | 319 | -- | 25812.15 | 427 | -- | 200231.78 | 373 | -- |
| B. Rabi | 5122 | 0 | 2506 | 0 | 0 | 832 | 8460 | 0 | 0 | -- | 38831.4 | 459 | -- | 38831.4 | 229.5 | -- |
| C. Summer | 940 | 0 | 0 | 531 | 0 | 590 | 2061 | 0 | 0 | -- | 9109.62 | 442 | -- | 9109.62 | 221 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 2633 | 2633 | 0 | 0 | -- | 444950.67 | 16899 | -- | 444950.67 | 8449.5 | -- |
| Total | 17423 | 0 | 9906 | 3482 | 38575 | 4490 | 73876 | 174419.63 | 319 | -- | 518703.84 | 4556.75 | -- | 693123.47 | 2437.875 | -- |

Source : DAP, Agriculture statistics

Name of the Block : Chopda

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|--------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 10256 | 0 | 7158 | 3611 | 30635 | 4251 | 55911 | 118331.25 | 375 | -- | 119100.84 | 489 | -- | 237432.09 | 432 | -- |
| B. Rabi | 10094 | 0 | 4939 | 0 | 0 | 5185 | 20218 | 0 | 0 | -- | 101494.36 | 502 | -- | 101494.36 | 251 | -- |
| C. Summer | 2770 | 0 | 0 | 478 | 0 | 2188 | 5436 | 0 | 0 | -- | 26527.68 | 488 | -- | 26527.68 | 244 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 5545 | 5545 | 0 | 0 | -- | 869899.6 | 15688 | -- | 869899.6 | 7844 | -- |
| Total | 23120 | 0 | 12097 | 4089 | 30635 | 17169 | 87110 | 118331.25 | 375 | -- | 1117022.48 | 4291.75 | -- | 1235353.73 | 2333.375 | -- |

Source : DAP, Agriculture statistics

Irrigation Planning of Jalgaon District of Maharashtra State (India)

Name of the Block : Erandol

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 7767 | 0 | 3801 | 2689 | 16613 | 1232 | 32102 | 90059.45 | 349 | -- | 29910.75 | 475 | -- | 119970.2 | 412 | -- |
| B. Rabi | 2564 | 0 | 1523 | 1075 | 0 | 1500 | 6662 | 0 | 0 | -- | 32577.18 | 489 | -- | 32577.18 | 244.5 | -- |
| C. Summer | 284 | 0 | 0 | 42 | 0 | 252 | 578 | 0 | 0 | -- | 2762.84 | 478 | -- | 2762.84 | 239 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 1585 | 1585 | 0 | 0 | -- | 283001.75 | 17855 | -- | 283001.75 | 8927.5 | -- |
| Total | 10615 | 0 | 5324 | 3806 | 16613 | 4569 | 40927 | 90059.45 | 349 | -- | 348252.52 | 4824.25 | -- | 438311.97 | 2586.625 | -- |

Source : DAP,Agriculture statistics

Name of the Block : Dharangaon

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 6049 | 0 | 3147 | 4220 | 15379 | 568 | 29363 | 130176.48 | 336 | -- | 53520.15 | 445 | -- | 183696.63 | 390.5 | -- |
| B. Rabi | 3270 | 0 | 1352 | 0 | 0 | 943 | 5565 | 0 | 0 | -- | 39581.75 | 475 | -- | 39581.75 | 237.5 | -- |
| C. Summer | 954 | 0 | | 610 | 0 | 565 | 2129 | 0 | 0 | -- | 2337.27 | 461 | -- | 2337.27 | 230.5 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 1672 | 1672 | 0 | 0 | -- | 247741.85 | 18955 | -- | 247741.85 | 9477.5 | -- |
| Total | 10273 | 0 | 4499 | 4830 | 15379 | 3748 | 38729 | 130176.48 | 336 | -- | 343181.02 | 5084 | -- | 473357.50 | 2710 | -- |

Source : DAP,Agriculture statistics

Irrigation Planning of Jalgaon District of Maharashtra State (India)

Name of the Block : Parola

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 11681 | 0 | 5296 | 1650 | 21576 | 567 | 40770 | 73192.41 | 327 | -- | 32196.29 | 401 | -- | 105388.7 | 364 | -- |
| B. Rabi | 4683 | 0 | 2246 | 0 | 0 | 1410 | 8339 | 0 | 0 | -- | 26044.2 | 468 | -- | 26044.2 | 234 | -- |
| C. Summer | 293 | 0 | 0 | 47 | | 167 | 507 | 0 | 0 | -- | 9623.08 | 452 | -- | 9623.08 | 226 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 1307 | 1307 | 0 | 0 | -- | 332142.8 | 19865 | -- | 332142.8 | 9932.5 | -- |
| Total | 16657 | 0 | 7542 | 1697 | 21576 | 3451 | 50923 | 73192.41 | 327 | -- | 400006.37 | 5296.5 | -- | 473198.78 | 2811.75 | -- |

Source : DAP,Agriculture statistics

Name of the Block : Pachora

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 13380 | 0 | 3487 | 3450 | 35300 | 2090 | 57707 | 145001.7 | 367 | -- | 87709.54 | 482 | -- | 232711.24 | 424.5 | -- |
| B. Rabi | 5570 | 0 | 1600 | 0 | 0 | 1455 | 8625 | 0 | 0 | -- | 43470 | 504 | -- | 43470 | 252 | -- |
| C. Summer | 1740 | 0 | 535 | 0 | 0 | 1150 | 3425 | 0 | 0 | -- | 16268.75 | 475 | -- | 16268.75 | 237.5 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 3871 | 3871 | 0 | 0 | -- | 718651.15 | 18565 | -- | 718651.15 | 9282.5 | -- |
| Total | 20690 | 0 | 5622 | 3450 | 35300 | 8566 | 73628 | 145001.7 | 367 | -- | 866099.44 | 5006.5 | -- | 1011101.14 | 2686.75 | -- |

Source : DAP,Agriculture statistics

Irrigation Planning of Jalgaon District of Maharashtra State (India)

Name of the Block : Chalisgaon

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 20035 | 0 | 4211 | 1652 | 53865 | 4830 | 84593 | 219595.2 | 352 | -- | 104646.78 | 471 | -- | 324241.98 | 411.5 | -- |
| B. Rabi | 3703 | 0 | 1414 | 610 | 0 | 1792 | 7519 | 0 | 0 | -- | 37444.62 | 498 | -- | 37444.62 | 249 | -- |
| C. Summer | 670 | 0 | | 68 | | 1840 | 2578 | 0 | 0 | -- | 11343.2 | 440 | -- | 11343.2 | 220 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 4966 | 4966 | 0 | 0 | -- | 886579.98 | 17853 | -- | 886579.98 | 8926.5 | -- |
| Total | 24408 | 0 | 5625 | 2330 | 53865 | 13428 | 99656 | 219595.2 | 352 | -- | 1040014.58 | 4815.5 | -- | 1259609.78 | 2583.75 | -- |

Source : DAP,Agriculture statistics

Name of the Block : Jamner

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|---------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 25627 | 0 | 6460 | 4755 | 63860 | 1070 | 101772 | 94049.72 | 346 | -- | 38202.84 | 468 | -- | 132252.56 | 407 | -- |
| B. Rabi | 8950 | 0 | 1479 | 0 | 0 | 0 | 10429 | 0 | 0 | -- | 43905.38 | 482 | -- | 43905.38 | 241 | -- |
| C. Summer | 5442 | 0 | | 65 | 0 | 220 | 5727 | 0 | 0 | -- | 1962 | 450 | -- | 1962 | 225 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 3556 | 3556 | 0 | 0 | -- | 662171.25 | 18785 | -- | 662171.25 | 9392.5 | -- |
| Total | 40019 | 0 | 7939 | 4820 | 63860 | 4846 | 121484 | 94049.72 | 346 | -- | 746241.47 | 5046.25 | -- | 840291.19 | 2696.125 | -- |

Source : DAP,Agriculture statistics

Irrigation Planning of Jalgaon District of Maharashtra State (India)

Name of the Block : Bhadgaon

| Season | Crop sown | | | | | | | Rainfed | | | Irrigated | | | Total | | |
|----------------------------|--------------|----------------|-------------|-------------|--------------|-----------------|--------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------------|------------------------------|---------------------|--------------------------|---------------------------------|
| | Cereals | Coarse Cereals | Pulses | Oil seeds | Fibre Crops | Any Other Crops | Area (ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (Qtl/Yr) | Productivity or Yield (Kgs/Ha) | Cost of cultivation (Rs./ha) | Production (qtn/yr) | Productivity on (kgs/hs) | Cost of cultivation on (Rs./ha) |
| A. Kharif | 8000 | 0 | 2825 | 1065 | 22500 | 955 | 35345 | 303575.437 | 328.94 | -- | 21328.87 | 389 | -- | 324904.3066 | 358.97 | -- |
| B. Rabi | 6760 | 0 | 824 | 0 | 0 | 1525 | 9109 | 0 | 0 | -- | 44636.12 | 428 | -- | 44636.12 | 214 | -- |
| C. Summer | 162 | 0 | 0 | 56 | 0 | 215 | 433 | 0 | 0 | -- | 23595.24 | 412 | -- | 23595.24 | 206 | -- |
| Horticultural & Plantation | 0 | 0 | 0 | 0 | 0 | 3525 | 3525 | 0 | 0 | -- | 418043.36 | 11756 | -- | 418043.36 | 5878 | -- |
| Total | 14922 | 0 | 3649 | 1121 | 22500 | 6220 | 48412 | 303575.44 | 82.235 | -- | 507603.59 | 3246.25 | -- | 811179.03 | 1664.2425 | -- |

Source : DAP, Agriculture statistics

Cropping Pattern and Irrigation Status-

The details of area wise cropping pattern of Jalgaon district is given in table no 2.1. whereas production and productivity of major crops in Jalgaon district is given taluka wise in table no. 2.2. Taluka wise irrigation based classification of Jalgaon district is elaborated in table no. 2.3.

2.3 Irrigation Based Classification

Name of the State : Maharashtra

Name of the District : Jalgaon

| Sr. No. | Name of the Block | Irrigated (Area in Ha) | | Rainfed (Area in Ha) | |
|---------|-------------------|------------------------|--------------------|---|---------------------------------|
| | | Gross Irrigated Area | Net Irrigated Area | Partially Irrigated / Protective Irrigation | Un-Irrigated or Totally Rainfed |
| 1 | Jalgaon | 12061 | 8723 | 6697 | 46886 |
| 2 | Bhusawal | 3371 | 2547 | 3219 | 22538 |
| 3 | Bodwad | 2763 | 2131 | 3063 | 21445 |
| 4 | Yawal | 34984 | 25116 | 3401 | 23807 |
| 5 | Raver | 38754 | 28726 | 4049 | 28345 |
| 6 | Muktainagar | 6225 | 4772 | 4374 | 30622 |
| 7 | Amalner | 7632 | 5702 | 7206 | 50447 |
| 8 | Chopada | 33336 | 23968 | 4686 | 32802 |
| 9 | Erandol | 5452 | 4042 | 3705 | 25940 |
| 10 | Dharangaon | 9946 | 8021 | 3007 | 21056 |
| 11 | Parola | 12105 | 9895 | 5272 | 36910 |
| 12 | Chalisgaon | 32708 | 24184 | 8173 | 57212 |
| 13 | Bhadgaon | 10550 | 8163 | 3838 | 26869 |
| 14 | Pachora | 19291 | 14779 | 5849 | 40950 |
| 15 | Jamner | 11132 | 7093 | 11779 | 82456 |
| | Total | 240310 | 177862 | 78318 | 548285 |

Status of Water Availability-

In Jalgaon district, water available through surface irrigation is about 7.384 BCM. Out of which 4.726, 2.068 and 0.591 BCM is available in Kharif, Rabi and Summer season respectively. Similarly; water available through ground water is about 1.733 BCM. Out of which 1.109, 0.485 and 0.139 BCM is available in Kharif, Rabi and Summer season respectively.

3.1 Status of Water Availability

in BCM

| Sr. No. | Sources | Kharif | Rabi | Summer | Total |
|---------|--|--------------|--------------|--------------|--------------|
| 1 | Surface Irrigation | | | | |
| i) | Canal (Major & Medium Irrigation) | 1.512 | 0.662 | 0.189 | 2.363 |
| ii) | Minor Irrigation tanks | 2.127 | 0.930 | 0.266 | 3.323 |
| iii) | Lift Irrigation/Diversion | 0.709 | 0.310 | 0.089 | 1.108 |
| iv) | Various Water Bodies Including Rain Water Harvesting | 0.378 | 0.165 | 0.047 | 0.591 |
| | Sub Total | 4.726 | 2.068 | 0.591 | 7.384 |
| 2 | Ground water | | | | |
| i) | Open Well | 0.388 | 0.170 | 0.049 | 0.607 |
| ii) | Bore Well | 0.721 | 0.315 | 0.090 | 1.127 |
| | Sub Total | 1.109 | 0.485 | 0.139 | 1.733 |
| | Grand Total | 5.835 | 2.553 | 0.729 | 9.118 |

Source : CWC, District Irrigation and Agriculture office records

Status of Ground water Availability-

Status of ground water availability in Jalgaon district is depicted block wise in table no 3.2. out of 15 blocks in the district; two blocks namely; Yawal and Raver falls in the category of critical ground water status whereas four blocks namely; Bodwad, Muktainagar, Chopda and Parola falls in the category of semi- critical ground water status. While remaining blocks comes in the category of safe ground water status.

3.2 Status of Ground water Availability

Name of the state : Maharashtra

Name of the District : Jalgaon

| Sr. No | Name of the Block | Status of Block as per Central Ground Water Board Notification | | | Ground water (BCM) | | |
|--------------|-------------------|--|---------------|------|--------------------|----------|-----------|
| | | Critical | Semi-Critical | Safe | Draft | Recharge | Gap |
| 1 | Jalgaon | | | √ | 0.000464 | 0.000825 | 0.000361 |
| 2 | Bhusawal | | | √ | 0.000455 | 0.000567 | 0.000111 |
| 3 | Bodwad | | √ | | 0.000330 | 0.000396 | 0.000066 |
| 4 | Yawal | √ | | | 0.001040 | 0.000765 | -0.000275 |
| 5 | Raver | √ | | | 0.001188 | 0.000975 | -0.000213 |
| 6 | Muktainagar | | √ | | 0.000455 | 0.000521 | 0.000066 |
| 7 | Amalner | | | √ | 0.000902 | 0.001152 | 0.000250 |
| 8 | Chopada | | √ | | 0.000983 | 0.001086 | 0.000104 |
| 9 | Erandol | | | √ | 0.000458 | 0.000706 | 0.000248 |
| 10 | Dharangaon | | | √ | 0.000437 | 0.000752 | 0.000315 |
| 11 | Parola | | √ | | 0.000717 | 0.000740 | 0.000023 |
| 12 | Chalisgaon | | | √ | 0.001170 | 0.001411 | 0.000241 |
| 13 | Bhadgaon | | | √ | 0.000778 | 0.001321 | 0.000543 |
| 14 | Pachora | | | √ | 0.000762 | 0.001067 | 0.000305 |
| 15 | Jamner | | | √ | 0.000954 | 0.001335 | 0.000381 |
| Total | | | | √ | 0.011094 | 0.013619 | 0.002526 |

Source : CGWB

Table 3.2 shows that ground water recharge from rainfall which is computed in ground water assesment carried out by Ground Water Survey & Development Agency (GSDA). This table also shows draft means ground water withdrawal from aquifer by water abstracting structures like well and tube well.

(Ref - Ground Water Assessment report 2011-12)

Status of Command Area-

The total command area in Jalgaon district is 227068 ha. out of which 125855 ha is developed command while 101213 ha command needs to be developed. The detailed block wise status of command area is given in the table no. 3.3.

3.3 Status of Command Area

Name of the state : Maharashtra

Name of the District : Jalgaon

Area in Ha.

| Sr. No. | Name of the Block | Information of Canal Command | | | Information on the Other Services Command | | | Total Area | |
|--------------|-------------------|------------------------------|----------------|------------------|---|----------------|------------------|-------------------|---------------------|
| | | Total Area | Developed Area | Undeveloped Area | Total Area | Developed Area | Undeveloped Area | Developed Command | Undeveloped Command |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 4+7 | 5+8 |
| 1 | Jalgaon | 18877 | 479 | 18398 | 0 | 0 | 0 | 479 | 18398 |
| 2 | Bhusawal | 1422 | 763 | 659 | 0 | 0 | 0 | 763 | 659 |
| 3 | Bodwad | 850 | 587 | 263 | 0 | 0 | 0 | 587 | 263 |
| 4 | Yawal | 17294 | 6994 | 10300 | 0 | 0 | 0 | 6994 | 10300 |
| 5 | Raver | 15286 | 14915 | 371 | 0 | 0 | 0 | 14915 | 371 |
| 6 | Muktainagar | 4781 | 1756 | 3025 | 0 | 0 | 0 | 1756 | 3025 |
| 7 | Amalner | 12037 | 2187 | 9850 | 0 | 0 | 0 | 2187 | 9850 |
| 8 | Chopada | 41427 | 18189 | 23238 | 0 | 0 | 0 | 18189 | 23238 |
| 9 | Erandol | 12534 | 10799 | 1735 | 0 | 0 | 0 | 10799 | 1735 |
| 10 | Dharangaon | 22592 | 9307 | 13285 | 0 | 0 | 0 | 9307 | 13285 |
| 11 | Parola | 14513 | 8902 | 5611 | 0 | 0 | 0 | 8902 | 5611 |
| 12 | Chalisgaon | 21436 | 19695 | 1741 | 0 | 0 | 0 | 19695 | 1741 |
| 13 | Bhadgaon | 13117 | 12169 | 948 | 0 | 0 | 0 | 12169 | 948 |
| 14 | Pachora | 15495 | 10900 | 4595 | 0 | 0 | 0 | 10900 | 4595 |
| 15 | Jamner | 15407 | 8213 | 7194 | 0 | 0 | 0 | 8213 | 7194 |
| Total | | 227068 | 125855 | 101213 | 0 | 0 | 0 | 125855 | 101213 |

Water requirement of Jalgaon district-

Domestic water requirement of Jalgaon district is 0.23946 BCM while crop water requirement is 12.296 BCM. Water required for livestock, industrial use and power generation in Jalgaon district is 0.0229 BCM, 0.02513 BCM and 0.0073 BCM respectively. The detailed block wise water requirement for domestic purpose, crop, livestock, industrial, for power generation and total water requirement is elaborated in table no. 4.1, 4.2, 4.3, 4.4, 4.5 and 4.6 respectively.

4.1 Domestic Water Demand

| Sr. No. | Blocks | Population in 2015 | Projected Population in 2020 | Gross Water Demand (BCM) |
|--------------|-------------|--------------------|------------------------------|--------------------------|
| 1 | Jalgaon | 727003 | 782649 | 0.03857 |
| 2 | Bhusawal | 351666 | 378583 | 0.01865 |
| 3 | Bodwad | 98684 | 106237 | 0.00523 |
| 4 | Yawal | 302268 | 325404 | 0.01603 |
| 5 | Raver | 336128 | 361856 | 0.01783 |
| 6 | Muktainagar | 175703 | 189152 | 0.00932 |
| 7 | Amalner | 309647 | 333348 | 0.01643 |
| 8 | Chopada | 336280 | 362019 | 0.01784 |
| 9 | Erandol | 181264 | 195138 | 0.00962 |
| 10 | Dharangaon | 187062 | 201380 | 0.00992 |
| 11 | Parola | 211523 | 227713 | 0.01122 |
| 12 | Chalisgaon | 434460 | 467714 | 0.02305 |
| 13 | Bhadgaon | 175107 | 188510 | 0.00929 |
| 14 | Pachora | 311076 | 334886 | 0.01650 |
| 15 | Jamner | 376205 | 405000 | 0.01996 |
| Total | | 4514076 | 4859589 | 0.23946 |

Source : CWE, Department of water Resorces in District status Report

4.2 Crop Water Requirement

| Block | Crop | Area Sown (ha) | Irrigated Area (ha) | Crop Water Demand (mm) | Water Potential Required (BCM) | Existing Water Potential (BCM) | Water Potential to be Created (BCM) |
|-----------------------|--------|----------------|---------------------|------------------------|--------------------------------|--------------------------------|-------------------------------------|
| Jalgaon | Cotton | 25400 | 3556 | 650 | 0.165 | 0.1156 | 0.04953 |
| Bhusawal | | 14630 | 878 | 650 | 0.095 | 0.0666 | 0.02853 |
| Bodwad | | 13654 | 1229 | 650 | 0.089 | 0.0621 | 0.02663 |
| Yawal | | 14846 | 7126 | 650 | 0.096 | 0.0675 | 0.02895 |
| Raver | | 16720 | 7858 | 650 | 0.109 | 0.0761 | 0.03260 |
| Muktainagar | | 18472 | 2032 | 650 | 0.120 | 0.0840 | 0.03602 |
| Amalner | | 38575 | 2315 | 650 | 0.251 | 0.1755 | 0.07522 |
| Chopada | | 30635 | 11950 | 650 | 0.199 | 0.1394 | 0.05974 |
| Erandol | | 16613 | 1994 | 650 | 0.108 | 0.0756 | 0.03240 |
| Dharangaon | | 15379 | 3845 | 650 | 0.100 | 0.0700 | 0.02999 |
| Parola | | 31576 | 7262 | 650 | 0.205 | 0.1437 | 0.06157 |
| Chalisgaon | | 53865 | 11850 | 650 | 0.350 | 0.2451 | 0.10504 |
| Bhadgaon | | 22500 | 4725 | 650 | 0.146 | 0.1024 | 0.04388 |
| Pachora | | 35380 | 10260 | 650 | 0.230 | 0.1610 | 0.06899 |
| Jamner | | 63860 | 2016 | 650 | 0.415 | 0.2906 | 0.12453 |
| Total District | | 412105 | 78896 | 650 | 2.679 | 1.8751 | 0.80360 |
| Jalgaon | Maize | 3256 | 456 | 450 | 0.015 | 0.0103 | 0.00440 |
| Bhusawal | | 2620 | 878 | 450 | 0.012 | 0.0083 | 0.00354 |
| Bodwad | | 3916 | 1230 | 450 | 0.018 | 0.0123 | 0.00529 |
| Yawal | | 2034 | 976 | 450 | 0.009 | 0.0064 | 0.00275 |
| Raver | | 2342 | 1124 | 450 | 0.011 | 0.0074 | 0.00316 |
| Muktainagar | | 2492 | 2032 | 450 | 0.011 | 0.0078 | 0.00336 |
| Amalner | | 5122 | 2315 | 450 | 0.023 | 0.0161 | 0.00691 |
| Chopada | | 5988 | 2335 | 450 | 0.027 | 0.0189 | 0.00808 |
| Erandol | | 5238 | 1993 | 450 | 0.024 | 0.0165 | 0.00707 |
| Dharangaon | | 3224 | 806 | 450 | 0.015 | 0.0102 | 0.00435 |
| Parola | | 6589 | 1515 | 450 | 0.030 | 0.0208 | 0.00890 |
| Chalisgaon | | 11567 | 2545 | 450 | 0.052 | 0.0364 | 0.01562 |
| Bhadgaon | | 5000 | 1050 | 450 | 0.023 | 0.0158 | 0.00675 |
| Pachora | | 10954 | 3176 | 450 | 0.049 | 0.0345 | 0.01479 |
| Jamner | | 20700 | 1915 | 450 | 0.093 | 0.0652 | 0.02795 |
| Total District | | 91042 | 24346 | 450 | 0.410 | 0.2868 | 0.12291 |

4.2 Crop Water Requirement

| | | | | | | | |
|-----------------------|----------|--------------|--------------|------------|--------------|---------------|----------------|
| Jalgaon | Kh.Jowar | 2468 | 345 | 450 | 0.011 | 0.0078 | 0.00333 |
| Bhusawal | | 2238 | 135 | 450 | 0.010 | 0.0070 | 0.00302 |
| Bodwad | | 2446 | 220 | 450 | 0.011 | 0.0077 | 0.00330 |
| Yawal | | 7498 | 3600 | 450 | 0.034 | 0.0236 | 0.01012 |
| Raver | | 4164 | 1960 | 450 | 0.019 | 0.0131 | 0.00562 |
| Muktainagar | | 5425 | 596 | 450 | 0.024 | 0.0171 | 0.00732 |
| Amalner | | 3846 | 230 | 450 | 0.017 | 0.0121 | 0.00519 |
| Chopada | | 3325 | 1296 | 450 | 0.015 | 0.0105 | 0.00449 |
| Erandol | | 1640 | 196 | 450 | 0.007 | 0.0052 | 0.00221 |
| Dharangaon | | 1998 | 500 | 450 | 0.009 | 0.0063 | 0.00270 |
| Parola | | 3283 | 755 | 450 | 0.015 | 0.0103 | 0.00443 |
| Chalisgaon | | 3724 | 820 | 450 | 0.017 | 0.0117 | 0.00503 |
| Bhadgaon | | 1950 | 410 | 450 | 0.009 | 0.0061 | 0.00263 |
| Pachora | | 1200 | 348 | 450 | 0.005 | 0.0038 | 0.00162 |
| Jamner | | 4617 | 138 | 450 | 0.021 | 0.0145 | 0.00623 |
| Total District | | 49822 | 11549 | 450 | 0.224 | 0.1569 | 0.06726 |
| Jalgaon | Bajra | 0 | 0 | 350 | 0.000 | 0.0000 | 0.00000 |
| Bhusawal | | 85 | 10 | 350 | 0.000 | 0.0002 | 0.00009 |
| Bodwad | | 22 | 12 | 350 | 0.000 | 0.0001 | 0.00002 |
| Yawal | | 16 | 7 | 350 | 0.000 | 0.0000 | 0.00002 |
| Raver | | 0 | 0 | 350 | 0.000 | 0.0000 | 0.00000 |
| Muktainagar | | 535 | 60 | 350 | 0.002 | 0.0013 | 0.00056 |
| Amalner | | 2393 | 145 | 350 | 0.008 | 0.0059 | 0.00251 |
| Chopada | | 943 | 370 | 350 | 0.003 | 0.0023 | 0.00099 |
| Erandol | | 889 | 110 | 350 | 0.003 | 0.0022 | 0.00093 |
| Dharangaon | | 827 | 210 | 350 | 0.003 | 0.0020 | 0.00087 |
| Parola | | 1809 | 420 | 350 | 0.006 | 0.0044 | 0.00190 |
| Chalisgaon | | 4754 | 1045 | 350 | 0.017 | 0.0116 | 0.00499 |
| Bhadgaon | | 1050 | 220 | 350 | 0.004 | 0.0026 | 0.00110 |
| Pachora | | 1226 | 355 | 350 | 0.004 | 0.0030 | 0.00129 |
| Jamner | | 310 | 20 | 350 | 0.001 | 0.0008 | 0.00033 |
| Total District | | 14859 | 2984 | 350 | 0.052 | 0.0364 | 0.01560 |

4.2 Crop Water Requirement

| | | | | | | | |
|-----------------------|-----|--------------|-------------|------------|--------------|---------------|----------------|
| Jalgaon | Tur | 750 | 105 | 450 | 0.003 | 0.0024 | 0.00101 |
| Bhusawal | | 850 | 60 | 450 | 0.004 | 0.0027 | 0.00115 |
| Bodwad | | 882 | 80 | 450 | 0.004 | 0.0028 | 0.00119 |
| Yawal | | 1312 | 630 | 450 | 0.006 | 0.0041 | 0.00177 |
| Raver | | 1366 | 642 | 450 | 0.006 | 0.0043 | 0.00184 |
| Muktainagar | | 1040 | 115 | 450 | 0.005 | 0.0033 | 0.00140 |
| Amalner | | 1018 | 61 | 450 | 0.005 | 0.0032 | 0.00137 |
| Chopada | | 588 | 230 | 450 | 0.003 | 0.0019 | 0.00079 |
| Erandol | | 327 | 40 | 450 | 0.001 | 0.0010 | 0.00044 |
| Dharangaon | | 564 | 141 | 450 | 0.003 | 0.0018 | 0.00076 |
| Parola | | 712 | 163 | 450 | 0.003 | 0.0022 | 0.00096 |
| Chalisgaon | | 1034 | 230 | 450 | 0.005 | 0.0033 | 0.00140 |
| Bhadgaon | | 245 | 52 | 450 | 0.001 | 0.0008 | 0.00033 |
| Pachora | | 980 | 285 | 450 | 0.004 | 0.0031 | 0.00132 |
| Jamner | | 2610 | 78 | 450 | 0.012 | 0.0082 | 0.00352 |
| Total District | | 14278 | 2912 | 450 | 0.064 | 0.0450 | 0.01928 |
| Jalgaon | Mug | 3233 | 452 | 400 | 0.013 | 0.0091 | 0.00388 |
| Bhusawal | | 1332 | 80 | 400 | 0.005 | 0.0037 | 0.00160 |
| Bodwad | | 1176 | 105 | 400 | 0.005 | 0.0033 | 0.00141 |
| Yawal | | 2482 | 1191 | 400 | 0.010 | 0.0069 | 0.00298 |
| Raver | | 2326 | 1093 | 400 | 0.009 | 0.0065 | 0.00279 |
| Muktainagar | | 838 | 92 | 400 | 0.003 | 0.0023 | 0.00101 |
| Amalner | | 4335 | 260 | 400 | 0.017 | 0.0121 | 0.00520 |
| Chopada | | 4831 | 1885 | 400 | 0.019 | 0.0135 | 0.00580 |
| Erandol | | 2562 | 307 | 400 | 0.010 | 0.0072 | 0.00307 |
| Dharangaon | | 1908 | 477 | 400 | 0.008 | 0.0053 | 0.00229 |
| Parola | | 2145 | 495 | 400 | 0.009 | 0.0060 | 0.00257 |
| Chalisgaon | | 1754 | 385 | 400 | 0.007 | 0.0049 | 0.00210 |
| Bhadgaon | | 1245 | 261 | 400 | 0.005 | 0.0035 | 0.00149 |
| Pachora | | 1257 | 365 | 400 | 0.005 | 0.0035 | 0.00151 |
| Jamner | | 2210 | 66 | 400 | 0.009 | 0.0062 | 0.00265 |
| Total District | | 33634 | 7514 | 400 | 0.135 | 0.0942 | 0.04036 |

4.2 Crop Water Requirement

| | | | | | | | |
|-----------------------|---------|--------------|--------------|------------|--------------|---------------|----------------|
| Jalgaon | Udid | 5492 | 770 | 400 | 0.022 | 0.0154 | 0.00659 |
| Bhusawal | | 1750 | 105 | 400 | 0.007 | 0.0049 | 0.00210 |
| Bodwad | | 1470 | 132 | 400 | 0.006 | 0.0041 | 0.00176 |
| Yawal | | 2756 | 1322 | 400 | 0.011 | 0.0077 | 0.00331 |
| Raver | | 2743 | 1290 | 400 | 0.011 | 0.0077 | 0.00329 |
| Muktainagar | | 1547 | 170 | 400 | 0.006 | 0.0043 | 0.00186 |
| Amalner | | 2047 | 123 | 400 | 0.008 | 0.0057 | 0.00246 |
| Chopada | | 1739 | 680 | 400 | 0.007 | 0.0049 | 0.00209 |
| Erandol | | 912 | 110 | 400 | 0.004 | 0.0026 | 0.00109 |
| Dharangaon | | 1724 | 431 | 400 | 0.007 | 0.0048 | 0.00207 |
| Parola | | 2439 | 560 | 400 | 0.010 | 0.0068 | 0.00293 |
| Chalisingaon | | 1423 | 313 | 400 | 0.006 | 0.0040 | 0.00171 |
| Bhadgaon | | 1335 | 280 | 400 | 0.005 | 0.0037 | 0.00160 |
| Pachora | | 1250 | 362 | 400 | 0.005 | 0.0035 | 0.00150 |
| Jamner | | 1640 | 50 | 400 | 0.007 | 0.0046 | 0.00197 |
| Total District | | 30267 | 6698 | 400 | 0.121 | 0.0847 | 0.03632 |
| Jalgaon | Soybean | 4953 | 694 | 450 | 0.022 | 0.0156 | 0.00669 |
| Bhusawal | | 1344 | 80 | 450 | 0.006 | 0.0042 | 0.00181 |
| Bodwad | | 1667 | 150 | 450 | 0.008 | 0.0053 | 0.00225 |
| Yawal | | 4816 | 2311 | 450 | 0.022 | 0.0152 | 0.00650 |
| Raver | | 4905 | 2305 | 450 | 0.022 | 0.0155 | 0.00662 |
| Muktainagar | | 949 | 105 | 450 | 0.004 | 0.0030 | 0.00128 |
| Amalner | | 2695 | 161 | 450 | 0.012 | 0.0085 | 0.00364 |
| Chopada | | 3483 | 1360 | 450 | 0.016 | 0.0110 | 0.00470 |
| Erandol | | 2624 | 315 | 450 | 0.012 | 0.0083 | 0.00354 |
| Dharangaon | | 4205 | 1051 | 450 | 0.019 | 0.0132 | 0.00568 |
| Parola | | 1265 | 290 | 450 | 0.006 | 0.0040 | 0.00171 |
| Chalisingaon | | 910 | 200 | 450 | 0.004 | 0.0029 | 0.00123 |
| Bhadgaon | | 995 | 210 | 450 | 0.004 | 0.0031 | 0.00134 |
| Pachora | | 3294 | 955 | 450 | 0.015 | 0.0104 | 0.00445 |
| Jamner | | 4265 | 130 | 450 | 0.019 | 0.0134 | 0.00576 |
| Total District | | 42370 | 10317 | 450 | 0.191 | 0.1335 | 0.05720 |

4.2 Crop Water Requirement

| | | | | | | | |
|-----------------------|-----------|--------------|--------------|-------------|--------------|---------------|----------------|
| Jalgaon | Kh.Gr.nut | 1250 | 175 | 450 | 0.006 | 0.0039 | 0.00169 |
| Bhusawal | | 326 | 20 | 450 | 0.001 | 0.0010 | 0.00044 |
| Bodwad | | 147 | 15 | 450 | 0.001 | 0.0005 | 0.00020 |
| Yawal | | 535 | 256 | 450 | 0.002 | 0.0017 | 0.00072 |
| Raver | | 1129 | 530 | 450 | 0.005 | 0.0036 | 0.00152 |
| Muktainagar | | 85 | 10 | 450 | 0.000 | 0.0003 | 0.00011 |
| Amalner | | 256 | 15 | 450 | 0.001 | 0.0008 | 0.00035 |
| Chopada | | 128 | 50 | 450 | 0.001 | 0.0004 | 0.00017 |
| Erandol | | 65 | 8 | 450 | 0.000 | 0.0002 | 0.00009 |
| Dharangaon | | 15 | 4 | 450 | 0.000 | 0.0000 | 0.00002 |
| Parola | | 385 | 90 | 450 | 0.002 | 0.0012 | 0.00052 |
| Chalisgaon | | 742 | 163 | 450 | 0.003 | 0.0023 | 0.00100 |
| Bhadgaon | | 70 | 15 | 450 | 0.000 | 0.0002 | 0.00009 |
| Pachora | | 156 | 45 | 450 | 0.001 | 0.0005 | 0.00021 |
| Jamner | | 490 | 15 | 450 | 0.002 | 0.0015 | 0.00066 |
| Total District | | 5779 | 1411 | 450 | 0.026 | 0.0182 | 0.00780 |
| Jalgaon | S.cane | 2780 | 2780 | 2200 | 0.612 | 0.4281 | 0.18348 |
| Bhusawal | | 1279 | 1279 | 2200 | 0.281 | 0.1970 | 0.08441 |
| Bodwad | | 44 | 44 | 2200 | 0.010 | 0.0068 | 0.00290 |
| Yawal | | 4456 | 4456 | 2200 | 0.980 | 0.6862 | 0.29410 |
| Raver | | 3051 | 3051 | 2200 | 0.671 | 0.4699 | 0.20137 |
| Muktainagar | | 1063 | 1063 | 2200 | 0.234 | 0.1637 | 0.07016 |
| Amalner | | 435 | 435 | 2200 | 0.096 | 0.0670 | 0.02871 |
| Chopada | | 4251 | 4251 | 2200 | 0.935 | 0.6547 | 0.28057 |
| Erandol | | 1232 | 1232 | 2200 | 0.271 | 0.1897 | 0.08131 |
| Dharangaon | | 568 | 568 | 2200 | 0.125 | 0.0875 | 0.03749 |
| Parola | | 567 | 567 | 2200 | 0.125 | 0.0873 | 0.03742 |
| Chalisgaon | | 4830 | 4830 | 2200 | 1.063 | 0.7438 | 0.31878 |
| Bhadgaon | | 955 | 955 | 2200 | 0.210 | 0.1471 | 0.06303 |
| Pachora | | 2090 | 2090 | 2200 | 0.460 | 0.3219 | 0.13794 |
| Jamner | | 1070 | 1070 | 2200 | 0.235 | 0.1648 | 0.07062 |
| Total District | | 28671 | 28671 | 2200 | 6.308 | 4.4153 | 1.89229 |

4.2 Crop Water Requirement

| | | | | | | | |
|-----------------------|-------|--------------|--------------|------------|--------------|---------------|----------------|
| Jalgaon | Wheat | 1972 | 1972 | 500 | 0.010 | 0.0069 | 0.00296 |
| Bhusawal | | 2108 | 2108 | 500 | 0.011 | 0.0074 | 0.00316 |
| Bodwad | | 1245 | 1245 | 500 | 0.006 | 0.0044 | 0.00187 |
| Yawal | | 3777 | 3777 | 500 | 0.019 | 0.0132 | 0.00567 |
| Raver | | 3523 | 3523 | 500 | 0.018 | 0.0123 | 0.00528 |
| Muktainagar | | 2023 | 2023 | 500 | 0.010 | 0.0071 | 0.00303 |
| Amalner | | 1022 | 1022 | 500 | 0.005 | 0.0036 | 0.00153 |
| Chopada | | 5380 | 5380 | 500 | 0.027 | 0.0188 | 0.00807 |
| Erandol | | 1191 | 1191 | 500 | 0.006 | 0.0042 | 0.00179 |
| Dharangaon | | 893 | 893 | 500 | 0.004 | 0.0031 | 0.00134 |
| Parola | | 2580 | 2580 | 500 | 0.013 | 0.0090 | 0.00387 |
| Chalisgaon | | 1750 | 1750 | 500 | 0.009 | 0.0061 | 0.00263 |
| Bhadgaon | | 2774 | 2774 | 500 | 0.014 | 0.0097 | 0.00416 |
| Pachora | | 710 | 710 | 500 | 0.004 | 0.0025 | 0.00107 |
| Jamner | | 2949 | 2949 | 500 | 0.015 | 0.0103 | 0.00442 |
| Total District | | 33897 | 33897 | 500 | 0.169 | 0.1186 | 0.05085 |
| Jalgaon | Gram | 2027 | 2027 | 350 | 0.007 | 0.0050 | 0.00213 |
| Bhusawal | | 2106 | 2106 | 350 | 0.007 | 0.0052 | 0.00221 |
| Bodwad | | 845 | 845 | 350 | 0.003 | 0.0021 | 0.00089 |
| Yawal | | 4198 | 4198 | 350 | 0.015 | 0.0103 | 0.00441 |
| Raver | | 6527 | 6527 | 350 | 0.023 | 0.0160 | 0.00685 |
| Muktainagar | | 1275 | 1275 | 350 | 0.004 | 0.0031 | 0.00134 |
| Amalner | | 2437 | 2437 | 350 | 0.009 | 0.0060 | 0.00256 |
| Chopada | | 6224 | 6224 | 350 | 0.022 | 0.0152 | 0.00654 |
| Erandol | | 1812 | 1812 | 350 | 0.006 | 0.0044 | 0.00190 |
| Dharangaon | | 1352 | 1352 | 350 | 0.005 | 0.0033 | 0.00142 |
| Parola | | 2340 | 2340 | 350 | 0.008 | 0.0057 | 0.00246 |
| Chalisgaon | | 2209 | 2209 | 350 | 0.008 | 0.0054 | 0.00232 |
| Bhadgaon | | 2124 | 2124 | 350 | 0.007 | 0.0052 | 0.00223 |
| Pachora | | 1691 | 1691 | 350 | 0.006 | 0.0041 | 0.00178 |
| Jamner | | 2414 | 2414 | 350 | 0.008 | 0.0059 | 0.00253 |
| Total District | | 39581 | 39581 | 350 | 0.139 | 0.0970 | 0.04156 |

4.2 Crop Water Requirement

| | | | | | | | |
|-----------------------|--------------|--------------|--------------|------------|--------------|---------------|----------------|
| Jalgaon | Rabi Sorghum | 5612 | 5612 | 400 | 0.022 | 0.0157 | 0.00673 |
| Bhusawal | | 773 | 773 | 400 | 0.003 | 0.0022 | 0.00093 |
| Bodwad | | 987 | 987 | 400 | 0.004 | 0.0028 | 0.00118 |
| Yawal | | 1938 | 1938 | 400 | 0.008 | 0.0054 | 0.00233 |
| Raver | | 1356 | 1356 | 400 | 0.005 | 0.0038 | 0.00163 |
| Muktainagar | | 520 | 520 | 400 | 0.002 | 0.0015 | 0.00062 |
| Amalner | | 4420 | 4420 | 400 | 0.018 | 0.0124 | 0.00530 |
| Chopada | | 4018 | 4018 | 400 | 0.016 | 0.0113 | 0.00482 |
| Erandol | | 1904 | 1904 | 400 | 0.008 | 0.0053 | 0.00228 |
| Dharangaon | | 2397 | 2397 | 400 | 0.010 | 0.0067 | 0.00288 |
| Parola | | 1753 | 1753 | 400 | 0.007 | 0.0049 | 0.00210 |
| Chalisgaon | | 1380 | 1380 | 400 | 0.006 | 0.0039 | 0.00166 |
| Bhadgaon | | 1900 | 1900 | 400 | 0.008 | 0.0053 | 0.00228 |
| Pachora | | 2732 | 2732 | 400 | 0.011 | 0.0076 | 0.00328 |
| Jamner | | 3247 | 3247 | 400 | 0.013 | 0.0091 | 0.00390 |
| Total District | | 34937 | 34937 | 400 | 0.140 | 0.0978 | 0.04192 |
| Jalgaon | R.Maize | 1917 | 1917 | 450 | 0.009 | 0.0060 | 0.00259 |
| Bhusawal | | 1096 | 1096 | 450 | 0.005 | 0.0035 | 0.00148 |
| Bodwad | | 52 | 52 | 450 | 0.000 | 0.0002 | 0.00007 |
| Yawal | | 2779 | 2779 | 450 | 0.013 | 0.0088 | 0.00375 |
| Raver | | 8195 | 8195 | 450 | 0.037 | 0.0258 | 0.01106 |
| Muktainagar | | 2827 | 2827 | 450 | 0.013 | 0.0089 | 0.00382 |
| Amalner | | 981 | 981 | 450 | 0.004 | 0.0031 | 0.00132 |
| Chopada | | 4596 | 4596 | 450 | 0.021 | 0.0145 | 0.00620 |
| Erandol | | 1765 | 1765 | 450 | 0.008 | 0.0056 | 0.00238 |
| Dharangaon | | 923 | 923 | 450 | 0.004 | 0.0029 | 0.00125 |
| Parola | | 1660 | 1660 | 450 | 0.007 | 0.0052 | 0.00224 |
| Chalisgaon | | 2180 | 2180 | 450 | 0.010 | 0.0069 | 0.00294 |
| Bhadgaon | | 2311 | 2311 | 450 | 0.010 | 0.0073 | 0.00312 |
| Pachora | | 3492 | 3492 | 450 | 0.016 | 0.0110 | 0.00471 |
| Jamner | | 1819 | 1819 | 450 | 0.008 | 0.0057 | 0.00246 |
| Total District | | 36593 | 36593 | 450 | 0.165 | 0.1153 | 0.04940 |

4.2 Crop Water Requirement

| | | | | | | | |
|-----------------------|--------------|--------------|--------------|------------|--------------|---------------|----------------|
| Jalgaon | Su.Maize | 1508 | 1508 | 450 | 0.007 | 0.0048 | 0.00204 |
| Bhusawal | | 305 | 305 | 450 | 0.001 | 0.0010 | 0.00041 |
| Bodwad | | 846 | 846 | 450 | 0.004 | 0.0027 | 0.00114 |
| Yawal | | 1621 | 1621 | 450 | 0.007 | 0.0051 | 0.00219 |
| Raver | | 1071 | 1071 | 450 | 0.005 | 0.0034 | 0.00145 |
| Muktainagar | | 1013 | 1013 | 450 | 0.005 | 0.0032 | 0.00137 |
| Amalner | | 1473 | 1473 | 450 | 0.007 | 0.0046 | 0.00199 |
| Chopada | | 4062 | 4062 | 450 | 0.018 | 0.0128 | 0.00548 |
| Erandol | | 436 | 436 | 450 | 0.002 | 0.0014 | 0.00059 |
| Dharangaon | | 1619 | 1619 | 450 | 0.007 | 0.0051 | 0.00219 |
| Parola | | 360 | 360 | 450 | 0.002 | 0.0011 | 0.00049 |
| Chalisgaon | | 1837 | 1837 | 450 | 0.008 | 0.0058 | 0.00248 |
| Bhadgaon | | 386 | 386 | 450 | 0.002 | 0.0012 | 0.00052 |
| Pachora | | 2665 | 2665 | 450 | 0.012 | 0.0084 | 0.00360 |
| Jamner | | 5563 | 5563 | 450 | 0.025 | 0.0175 | 0.00751 |
| Total District | | 24765 | 24765 | 450 | 0.111 | 0.0780 | 0.03343 |
| Jalgaon | Su.Groundnut | 318 | 318 | 600 | 0.002 | 0.0013 | 0.00057 |
| Bhusawal | | 110 | 110 | 600 | 0.001 | 0.0005 | 0.00020 |
| Bodwad | | 425 | 425 | 600 | 0.003 | 0.0018 | 0.00077 |
| Yawal | | 1160 | 1160 | 600 | 0.007 | 0.0049 | 0.00209 |
| Raver | | 263 | 263 | 600 | 0.002 | 0.0011 | 0.00047 |
| Muktainagar | | 557 | 557 | 600 | 0.003 | 0.0023 | 0.00100 |
| Amalner | | 588 | 588 | 600 | 0.004 | 0.0025 | 0.00106 |
| Chopada | | 1374 | 1374 | 600 | 0.008 | 0.0058 | 0.00247 |
| Erandol | | 142 | 142 | 600 | 0.001 | 0.0006 | 0.00026 |
| Dharangaon | | 510 | 510 | 600 | 0.003 | 0.0021 | 0.00092 |
| Parola | | 147 | 147 | 600 | 0.001 | 0.0006 | 0.00026 |
| Chalisgaon | | 1041 | 1041 | 600 | 0.006 | 0.0044 | 0.00187 |
| Bhadgaon | | 50 | 50 | 600 | 0.000 | 0.0002 | 0.00009 |
| Pachora | | 760 | 760 | 600 | 0.005 | 0.0032 | 0.00137 |
| Jamner | | 164 | 164 | 600 | 0.001 | 0.0007 | 0.00030 |
| Total District | | 7609 | 7609 | 600 | 0.046 | 0.0320 | 0.01370 |

4.2 Crop Water Requirement

| | | Fruit Crops | | | | | | |
|--|--|------------------------------------|--------------|--------------|-------------|--------------|------------------|-----------------|
| | | Custard Apple | 585 | 25 | 280 | 0.002 | 0.0011 | 0.00049 |
| | | Pomegranate | 1911 | 120 | 280 | 0.005 | 0.0037 | 0.00161 |
| | | Sweet Orange | 677 | 225 | 350 | 0.002 | 0.0017 | 0.00071 |
| | | Mango | 287 | 105 | 300 | 0.001 | 0.0006 | 0.00026 |
| | | Banana | 49280 | 49280 | 2200 | 1.084 | 0.7589 | 0.32525 |
| | | Guava | 1248 | 755 | 280 | 0.003 | 0.0024 | 0.00105 |
| | | K. Lime | 1615 | 825 | 350 | 0.006 | 0.0040 | 0.00170 |
| | | Papaya | 2664 | 2664 | 400 | 0.011 | 0.0075 | 0.00320 |
| | | Sapota | 524 | 125 | 300 | 0.002 | 0.0011 | 0.00047 |
| | | Sub Total | 58791 | 54124 | 527 | 1.116 | 0.7810279 | 0.334726 |
| | | Vegetable Crops | | | | | | |
| | | Brinjal | 739 | 135 | 750 | 0.006 | 0.0039 | 0.00166 |
| | | Cabbage | 1020 | 355 | 750 | 0.008 | 0.0054 | 0.00230 |
| | | Cauliflower | 745 | 210 | 750 | 0.006 | 0.0039 | 0.00168 |
| | | Okra | 1595 | 438 | 750 | 0.012 | 0.0084 | 0.00359 |
| | | Tomato | 532 | 238 | 750 | 0.004 | 0.0028 | 0.00120 |
| | | Potato | 50 | 50 | 750 | 0.000 | 0.0003 | 0.00011 |
| | | Onion | 20000 | 8000 | 750 | 0.150 | 0.1050 | 0.04500 |
| | | Sub Total | 24681 | 9426 | 750 | 0.185 | 0.130 | 0.056 |
| | | Spice Crops | | | | | | |
| | | Ginger | 70 | 40 | 750 | 0.001 | 0.0004 | 0.00016 |
| | | Turmeric | 625 | 325 | 750 | 0.005 | 0.0033 | 0.00141 |
| | | Chilli | 1551 | 851 | 750 | 0.012 | 0.0081 | 0.00349 |
| | | Sub Total | 2246 | 1216 | 750 | 0.017 | 0.012 | 0.005 |
| | | Grand Total of Horticulture | 85718 | 64766 | 2027 | 1.32 | 0.92 | 0.40 |

4.2 Crop Water Requirement

| | | | | | | | |
|--------------------------------|-------------------------------|---------------|---------------|-------------|---------------|--------------|--------------|
| Jalgaon | Major Agriculture Crops | 62936 | 22687 | 563 | 0.93 | 0.65 | 0.28 |
| Bhusawal | | 32952 | 10023 | 563 | 0.45 | 0.32 | 0.14 |
| Bodwad | | 29824 | 7617 | 563 | 0.17 | 0.12 | 0.05 |
| Yawal | | 56224 | 37348 | 563 | 1.24 | 0.87 | 0.37 |
| Raver | | 59681 | 40788 | 563 | 0.95 | 0.67 | 0.29 |
| Muktainagar | | 40661 | 14490 | 563 | 0.45 | 0.31 | 0.13 |
| Amalner | | 71643 | 16981 | 563 | 0.48 | 0.34 | 0.15 |
| Chopada | | 81565 | 50061 | 563 | 1.34 | 0.94 | 0.40 |
| Erandol | | 39352 | 13555 | 563 | 0.47 | 0.33 | 0.14 |
| Dharangaon | | 38106 | 15727 | 563 | 0.32 | 0.22 | 0.10 |
| Parola | | 59610 | 20957 | 563 | 0.45 | 0.31 | 0.13 |
| Chalisgaon | | 95000 | 32778 | 563 | 1.57 | 1.10 | 0.47 |
| Bhadgaon | | 44890 | 17723 | 563 | 0.45 | 0.31 | 0.13 |
| Pachora | | 69837 | 30291 | 563 | 0.83 | 0.58 | 0.25 |
| Jamner | | 117928 | 21654 | 563 | 0.88 | 0.62 | 0.27 |
| Total District | Horticulture Crops | 85718 | 64766 | 2027 | 1.32 | 0.92 | 0.40 |
| Grand Total of District | | 632006 | 267512 | 653 | 12.296 | 8.607 | 3.689 |

4.3 Livestock Water Demand

| Sr. No | Block | Total No. of live Stock | Present Water Demand (BCM) | Water Demand in 2020 (BCM) | Existing Water Potential (BCM) | Water Potential to be Created (BCM) |
|--------------|-------------|-------------------------|----------------------------|----------------------------|--------------------------------|-------------------------------------|
| 1 | Jalgaon | 148525 | 0.0016 | 0.0028 | 0.0015 | 0.0013 |
| 2 | Bhusawal | 94263 | 0.0010 | 0.0017 | 0.0009 | 0.0008 |
| 3 | Bodwad | 54789 | 0.0006 | 0.0010 | 0.0006 | 0.0005 |
| 4 | Yawal | 140498 | 0.0015 | 0.0026 | 0.0014 | 0.0012 |
| 5 | Raver | 141920 | 0.0016 | 0.0026 | 0.0014 | 0.0012 |
| 6 | Muktainagar | 143328 | 0.0016 | 0.0027 | 0.0014 | 0.0012 |
| 7 | Amalner | 137744 | 0.0015 | 0.0026 | 0.0014 | 0.0012 |
| 8 | Chopada | 132323 | 0.0014 | 0.0025 | 0.0013 | 0.0011 |
| 9 | Erandol | 89400 | 0.0010 | 0.0017 | 0.0009 | 0.0008 |
| 10 | Dharangaon | 114154 | 0.0012 | 0.0021 | 0.0011 | 0.0010 |
| 11 | Parola | 115460 | 0.0013 | 0.0021 | 0.0012 | 0.0010 |
| 12 | Chalisgaon | 297995 | 0.0033 | 0.0055 | 0.0030 | 0.0025 |
| 13 | Bhadgaon | 105277 | 0.0012 | 0.0020 | 0.0011 | 0.0009 |
| 14 | Pachora | 165113 | 0.0018 | 0.0031 | 0.0017 | 0.0014 |
| 15 | Jamner | 207325 | 0.0023 | 0.0038 | 0.0021 | 0.0018 |
| Total | | 2088114 | 0.0229 | 0.0387 | 0.0210 | 0.0177 |

4.4 Industrial Water Demand

| Block | Name of the Industry | Water Demand (BCM) | Water Demand 2020 (BCM) | Existing Water Potential (BCM) | Water Potential to be Created (BCM) |
|--------------|----------------------|--------------------|-------------------------|--------------------------------|-------------------------------------|
| Jalgaon | MIDC | 0.00754 | 0.01137 | 0.00741 | 0.00396 |
| Bhusawal | MIDC | 0.00503 | 0.00758 | 0.00494 | 0.00264 |
| Bodwad | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Yawal | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Raver | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Muktainagar | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Amalner | MIDC | 0.00126 | 0.00189 | 0.00123 | 0.00066 |
| Chopada | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Erandol | MIDC | 0.00126 | 0.00189 | 0.00123 | 0.00066 |
| Dharangaon | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Parola | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Chalisgaon | MIDC | 0.00503 | 0.00758 | 0.00494 | 0.00264 |
| Bhadgaon | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Pachora | MIDC | 0.00251 | 0.00379 | 0.00247 | 0.00132 |
| Jamner | MIDC | 0.00251 | 0.00379 | 0.00247 | 0.00132 |
| Total | MIDC | 0.02513 | 0.03789 | 0.02469 | 0.01320 |

4.5 Water Demand for Power Generation

| Sr. No. | Block | Power Requirement MW | Water Demand (BCM) | Water Demand in 2020 (BCM) | Existing Water Potential (BCM) | Water Potential to be created (BCM) |
|--------------|-------------|----------------------|--------------------|----------------------------|--------------------------------|-------------------------------------|
| 1 | Jalgaon | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 2 | Bhusawal | 1475 | 0.00734 | 0.00750 | 0.00734 | 0.00017 |
| 3 | Bodwad | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 4 | Yawal | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 5 | Raver | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 6 | Muktainagar | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 7 | Amalner | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 8 | Chopada | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 9 | Erandol | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 10 | Dharangaon | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 11 | Parola | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 12 | Chalisgaon | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 13 | Bhadgaon | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 14 | Pachora | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 15 | Jamner | ---- | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Total | | 1475 | 0.00734 | 0.00750 | 0.00734 | 0.00017 |

4.6 Total Demand of the District for Various Sectors

| Sr. No. | Block | Components | | | | | Total (BCM) |
|--------------|-------------|---------------|----------------|---------------|---------------|------------------|----------------|
| | | Domestic | Crop | Livestock | Industrial | Power Generation | |
| 1 | Jalgaon | 0.0358 | 1.0132 | 0.0016 | 0.0075 | 0.0000 | 1.0582 |
| 2 | Bhusawal | 0.0173 | 0.5381 | 0.0010 | 0.0050 | 0.0073 | 0.5688 |
| 3 | Bodwad | 0.0049 | 0.2574 | 0.0006 | 0.0000 | 0.0000 | 0.2629 |
| 4 | Yawal | 0.0149 | 1.0666 | 0.0015 | 0.0000 | 0.0000 | 1.0831 |
| 5 | Raver | 0.0166 | 1.0398 | 0.0016 | 0.0000 | 0.0000 | 1.0579 |
| 6 | Muktainagar | 0.0087 | 0.5354 | 0.0016 | 0.0000 | 0.0000 | 0.5457 |
| 7 | Amalner | 0.0153 | 0.5723 | 0.0015 | 0.0013 | 0.0000 | 0.5903 |
| 8 | Chopada | 0.0166 | 1.4245 | 0.0014 | 0.0000 | 0.0000 | 1.4426 |
| 9 | Erandol | 0.0089 | 0.5591 | 0.0010 | 0.0013 | 0.0000 | 0.5702 |
| 10 | Dharangaon | 0.0092 | 0.4085 | 0.0012 | 0.0000 | 0.0000 | 0.4190 |
| 11 | Parola | 0.0104 | 0.5356 | 0.0013 | 0.0000 | 0.0000 | 0.5473 |
| 12 | Chalisgaon | 0.0214 | 1.6571 | 0.0033 | 0.0050 | 0.0000 | 1.6868 |
| 13 | Bhadgaon | 0.0086 | 0.5967 | 0.0012 | 0.0000 | 0.0000 | 0.6065 |
| 14 | Pachora | 0.0153 | 0.9192 | 0.0018 | 0.0025 | 0.0000 | 0.9389 |
| 15 | Jamner | 0.0185 | 0.9723 | 0.0023 | 0.0025 | 0.0000 | 0.9956 |
| Total | | 0.2224 | 12.0960 | 0.0229 | 0.0251 | 0.0073 | 12.3737 |

Water Budget of Jalgaon district-

Accordingly block wise water budget of Jalgaon district is prepared and is illustrated in table no. 4.7.

4.7 Water Budget

| Name of the Block | Existing Water Availability (BCM) | | Total (BCM) | Water Demand (BCM) | | Water Gap (BCM) | |
|-------------------|-----------------------------------|---------------|---------------|--------------------|----------------|-----------------|----------------|
| | Surface Water | Ground Water | | Present | Projected 2020 | Present | Projected 2020 |
| Jalgaon | 0.6111 | 0.0725 | 0.6836 | 1.0582 | 1.1189 | -0.3746 | -0.4353 |
| Bhusawal | 0.2416 | 0.0711 | 0.3127 | 0.5688 | 0.5987 | -0.2561 | -0.2859 |
| Bodwad | 0.0984 | 0.0516 | 0.1501 | 0.2629 | 0.2741 | -0.1128 | -0.1240 |
| Yawal | 0.8181 | 0.1625 | 0.9806 | 1.0831 | 1.1813 | -0.1025 | -0.2007 |
| Raver | 0.7907 | 0.1856 | 0.9763 | 1.0579 | 1.1186 | -0.0816 | -0.1423 |
| Muktainagar | 0.3767 | 0.0711 | 0.4478 | 0.5457 | 0.5749 | -0.0979 | -0.1271 |
| Amalner | 0.3844 | 0.1409 | 0.5253 | 0.5903 | 0.6223 | -0.0650 | -0.0970 |
| Chopada | 0.7842 | 0.1536 | 0.9378 | 1.4426 | 1.5269 | -0.5048 | -0.5891 |
| Erandol | 0.2896 | 0.0716 | 0.3612 | 0.5702 | 0.6005 | -0.2091 | -0.2393 |
| Dharangaon | 0.2791 | 0.0683 | 0.3474 | 0.4190 | 0.4402 | -0.0716 | -0.0928 |
| Parola | 0.4476 | 0.1121 | 0.5597 | 0.5473 | 0.5765 | 0.0124 | -0.0167 |
| Chalisingaon | 0.7269 | 0.1829 | 0.9098 | 1.6868 | 1.7870 | -0.7771 | -0.8773 |
| Bhadgaon | 0.4339 | 0.1216 | 0.5555 | 0.6065 | 0.6755 | -0.0510 | -0.1200 |
| Pachora | 0.5917 | 0.1191 | 0.7107 | 0.9389 | 0.9923 | -0.2281 | -0.2816 |
| Jamner | 0.5104 | 0.1490 | 0.6594 | 0.9956 | 1.0529 | -0.3362 | -0.3935 |
| Total | 7.3844 | 1.7334 | 9.1178 | 12.374 | 13.1404 | -3.2559 | -4.0226 |

Table 4.7 shows that net ground water available from rainfall recharge as well as recharge from water impounding structures in Jalgaon district which is calculated by using GEC-1997 norms by computing assessment of dynamic ground water resources of the Maharashtra 2011-12

(Ref - Ground Water Assessment Report 2011-12)

Strategic Action Plan-

For narrowing the gap between water requirement and water availability in the Jalgaon district integrated approach through soil and water conservation works and use of micro-irrigation techniques is needed. Accordingly block wise strategic action plan is prepared and is shown in table no 5.0.

Irrigation Planning of Jalgaon District of Maharashtra State (India)

Strategic Action Plan For Irrigation in District – Jalgaon

| Sr. No | Concerned Ministry/ Department | Component | Activity | Total Number/Capacity | Command Area/Irrigation Potential(Ha) | Period of Implementation (5/7 yrs) | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | Estimated Cost(In Rs. Crore) |
|--------|--------------------------------|--|--|-----------------------|---------------------------------------|------------------------------------|----------|---------|---------|---------|----------|------------------------------|
| 1 | MoWR | AIBP | Major Irrigation | 7 | 218485 | 5 | 1398.36 | 1466.26 | 1494.54 | 1532.6 | 1577.18 | 7468.94 |
| 2 | MoWR | | Medium Irrigation | 11 | 40395 | 5 | 314.2 | 332.58 | 346.88 | 350.36 | 352.41 | 1696.43 |
| 3 | MoWR | | Surface Minor irrigation | 4 | 2068 | 5 | 7.125 | 7.235 | 7.496 | 7.736 | 7.988 | 37.58 |
| 4 | MoWR | | Lift Irrigation | 482 | 4820 | 5 | 0.412 | 0.456 | 0.461 | 0.467 | 0.498 | 2.294 |
| 5 | MoWR | | Ground water development | 295 | 0 | 5 | 31.878 | 31.95 | 32.22 | 32.96 | 33.42 | 162.428 |
| 6 | MoWR | | RRR of water Bodies | 108 | 1080 | 5 | 0.0401 | 0.0416 | 0.043 | 0.045 | 0.0463 | 0.216 |
| 7 | MoWR | | Construction of Field channels | | | | | | | | | |
| 7.1 | MoWR | | Lined Field Channels | 22 | 110 | 5 | 2.29 | 2.42 | 2.53 | 2.64 | 2.72 | 12.6 |
| 7.2 | MoWR | | Unlined Channels | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | MoWR | | Micro-Irrigation | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | MoA & FW-DAC & FW | Per Drop More Crop (Micro Irrigation) | DPAP Drip | 112748 | 112748 | 5 | 98.24 | 99.12 | 99.31 | 99.47 | 99.9512 | 496.0912 |
| 10 | MoA & FW-DAC & FW | | DPAP Sprinkler | 372 | 372 | 5 | 0.17 | 0.178 | 0.189 | 0.194 | 0.199 | 0.93 |
| 11 | MoA & FW-DAC & FW | | Non- DPAP Drip | 48909 | 48909 | 5 | 42.2096 | 42.84 | 43.12 | 43.48 | 43.55 | 215.1996 |
| 12 | MoA & FW-DAC & FW | | Non- DPAP Sprinkler | 306 | 306 | 5 | 0.145 | 0.149 | 0.152 | 0.157 | 0.162 | 0.765 |
| | | | | 162335 | 162335 | 20 | 140.7646 | 142.287 | 142.771 | 143.301 | 143.8622 | 712.9858 |
| 13 | MoA & FW-DAC & FW | Per Drop More Crop (Supplementary Water Management Activities) | Topping Up of MGNREGA | 616 | 30800 | 5 | 90 | 114 | 126 | 136 | 150 | 616 |
| 14 | MoA & FW-DAC & FW | | Drought Proofing through Check Dams/ Water Harvesting Structures | 144 | 3662.41 | 5 | 15 | 22 | 32 | 35 | 40 | 144 |
| 15 | MoA & FW-DAC & FW | | Secondary Storage Structures | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | MoA & FW-DAC & FW | | On Farm Development | 526000 | 526000 | 5 | 1.533 | 1.563 | 1.583 | 1.599 | 1.612 | 7.89 |

Irrigation Planning of Jalgaon District of Maharashtra State (India)

| Sr. No | Concerned Ministry/ Department | Component | Activity | Total Number/Capacity | Command Area/Irrigation Potential(Ha) | Period of Implementation (5/7 yrs) | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | Estimated Cost(In Rs. Crore) |
|--------|--------------------------------|--------------------------|---|-----------------------|---------------------------------------|------------------------------------|---------|---------|---------|---------|---------|------------------------------|
| | | | (distribution pipe/ raised bed & furrow system) | | | | | | | | | |
| 17 | Newly created WHS | | | | | | | | | | | |
| 17.1 | DoLR-MoRD | PMKSY Watershed | Farm Ponds | 5756 | 25268.88 | 5 | 36.14 | 37.2 | 37.84 | 38.13 | 38.5 | 187.81 |
| 17.2 | DoLR-MoRD | | Check Dams | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17.3 | DoLR-MoRD | | Mati Nala Bund | 373 | 5772 | 5 | 3.69 | 3.8 | 3.855 | 3.94 | 3.98 | 19.265 |
| 17.4 | DoLR-MoRD | | Cement Nala Bund | 1119 | 28460.1 | 5 | 18.64 | 18.75 | 18.84 | 18.94 | 19.08 | 94.25 |
| 17.5 | DoLR-MoRD | | Compartment Bunding | 74371 | 66933.9 | 5 | 86.56 | 87.95 | 88.23 | 89.96 | 91.949 | 444.649 |
| 17.6 | DoLR-MoRD | | Deep CCT | 587 | 1311.2 | 5 | 37.95 | 38.25 | 38.43 | 40.24 | 41.557 | 196.427 |
| 17.7 | DoLR-MoRD | | Percolation Tanks | 172 | 36020 | 5 | 38.66 | 39.32 | 39.94 | 40.61 | 41.87 | 200.4 |
| 17.8 | DoLR-MoRD | | Other Ground Water Recharge structures | 2858 | 0 | 5 | 8.02 | 8.29 | 8.56 | 8.82 | 9.03 | 42.72 |
| 17.9 | DoLR-MoRD | | Fishery Ponds/ Cattle Ponds | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | Renovated WHS | | | | | | | | | | | |
| 18.1 | DoLR-MoRD | PMKSY Watershed | Farm Ponds | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18.2 | DoLR-MoRD | | Check Dams | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18.3 | DoLR-MoRD | | Nala Bund | 3776 | 134112 | 5 | 22.56 | 22.8 | 23.05 | 23.26 | 23.39 | 115.06 |
| 18.4 | DoLR-MoRD | | Percolation Tanks | 94 | 348 | 5 | 0.142 | 0.149 | 0.15 | 0.162 | 0.167 | 0.77 |
| 18.5 | DoLR-MoRD | | Other Ground Water Recharge structures | 1951 | 0 | 5 | 4.37 | 4.56 | 4.72 | 4.84 | 4.906 | 23.396 |
| 18.5A | DoLR-MoRD | | Excluding NRM activities | 55.652 | 0 | 5 | 10.86 | 11.022 | 11.17 | 11.27 | 11.33 | 55.652 |
| 18.6 | DoLR-MoRD | | Fishery Ponds/ Cattle Ponds | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Newly created | | | | | | | | | | | |
| 19.1 | DoRD-MoRD | Convergence with MGNREGA | Water Conservation - well digging | 2774 | 13870 | 5 | 15.93 | 16.28 | 16.36 | 16.94 | 17.71 | 83.22 |
| 19.2 | DoRD-MoRD | | Water harvesting- well recharge | 3307 | 3307 | 5 | 3.16 | 3.25 | 3.33 | 3.38 | 3.415 | 16.535 |
| 19.3 | DoRD-MoRD | | Creation of Irrigation Canals | 176 | 704 | 5 | 1.14 | 1.21 | 1.28 | 1.35 | 1.42 | 6.4 |

Irrigation Planning of Jalgaon District of Maharashtra State (India)

| Sr. No | Concerned Ministry/ Department | Component | Activity | Total Number/Capacity | Command Area/Irrigation Potential(Ha) | Period of Implementation (5/7 yrs) | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | Estimated Cost(In Rs. Crore) |
|--------------|--|--------------------------|--|-----------------------|---------------------------------------|------------------------------------|-----------------|------------------|----------------|----------------|-----------------|------------------------------|
| | | | and Drains | | | | | | | | | |
| 19.4 | DoRD-MoRD | | Providing Infrastructure for Irrigation | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19.5 | DoRD-MoRD | | Land Development | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | Renovation | | | | | | | | | | | |
| 20.1 | DoRD-MoRD | Convergence with MGNREGA | Renovation of water bodies including desilting | 459 | 4590 | 5 | 0.619 | 0.661 | 0.692 | 0.706 | 0.717 | 3.395 |
| 20.2 | DoRD-MoRD | | Renovation and Maintenance of Irrigation Canals & Drains | 209 | 418 | 5 | 0.329 | 0.347 | 0.367 | 0.372 | 0.38 | 1.795 |
| 21 | State Planned Scheme of Irrigation | | | | | | | | | | | |
| 21.1 | State Irrigation Department | AIBP | Major Irrigation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21.2 | State Irrigation Department | | Medium Irrigation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21.3 | State Irrigation Department | | Surface Minor Irrigation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | Irrigation Scheme of State Department | - | - | 162335 | 162335 | 5 | 93.84 | 94.85387 | 95.19 | 95.53 | 95.91 | 475.32387 |
| 23 | Irrigation Scheme of other line departments of State Govts | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | Externally aided projects | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | Other loan projects like NABARD | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | | | 1473205.49 | 1473205.49 | 5 | 2384.213 | 2509.4855 | 2578.53 | 2641.16 | 2715.048 | 12828.4317 |