DISTRICT IRRIGATION PLAN

Goalpara, Assam

District Irrigation Plan, 2016-2020
Goalpara, Assam

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Executive Summary

In an agrarian economy like India, agriculture utilizes the major share of country's exploitable water resources. Though the sector utilizes the maximum share of exploitable water resources, availability of the same at different locations to different extent makes it vital to adopt effective utilization of water through storage, channelizing and judicial use. At some places like Punjab and Haryana, the environmental and socio-economic rationale for this capture by the sector is now being questioned. Accordingly, it is needed to challenge and change the fundamentals of the prevailing view of water resources exploitation. A new and more suitable approach to water resources allocation is necessary if the population is to be adequately fed, without further degradation and destruction of the critical ecosystem services. Water productivity needs to be enhanced considerably, and economic cost-benefit analysis and pricing regimes can play a significant role in such a process. However, these economic measures will not be sufficient on their own. They will need to be buttressed by technological innovation and institutional changes in order to encourage a more equitable distribution of resources and to mitigate potential international conflicts across 'shared' water basins.

Water has unique characteristics that determine both its allocation and use as a resource by agriculture. Agricultural use of water for irrigation is itself contingent on land resources. In a situation of growing water scarcity and rising demands for non-agricultural (household and industrial) use of water, reassessment of sectoral allocations of water are inevitable. In developing countries, irrigated agriculture plays a vital role in contributing towards domestic food security and poverty alleviation. Therefore, achievement of these objectives is dependent on adequate allocations of water to agriculture. Justification of such allocations requires that irrigated agriculture be a cost-effective means of achieving stated political or social objectives, such as food security or poverty alleviation, and that all externalities be taken into account in the pricing mechanism. Improved allocation of irrigation water is required within the agriculture sectors in order to achieve greater efficiency in the use of irrigation water and existing irrigation infrastructure. Reallocation is also required in order to reduce waterlogging and salinization of irrigated land, to decrease the negative environmental impacts and other externalities of irrigation (caused by overextraction of groundwater and depletion and pollution of surface water).

Government of India launched Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) to address the constraints in providing assured irrigation as well as increasing efficiency and productivity of current water use to bring more prosperity to the rural areas. Priorities of

Government of India were reflected in the Hon'ble President's address to the joint Session of the Parliament of 16th Lok Sabha where he indicated that "Each drop of water is precious. Government is committed to giving high priority to water security. It will complete the long pending irrigation projects on priority and launch the 'Pradhan Mantri Krishi Sinchayee Yojana' with the motto of 'Har Khet Ko Pani'. There is a need for seriously considering all options including linking of rivers, where feasible; for ensuring optimal use of our water resources to prevent the recurrence of floods and drought. By harnessing rain water through 'Jal Sanchay' and 'Jal Sinchan', we will nurture water conservation and ground water recharge. Micro irrigation will be popularised to ensure 'Per drop-More crop".

PMKSY has been approved with an indicative outlay of Rs.50,000 crore over a period of five years from 2015-16 to 2019-20. The programme is an amalgamation of on-going schemes of Ministry of Water Resources, River Development and Ganga Rejuvenation, Ministry of Agriculture & Cooperation and Ministry of Rural Development. The existing schemes AIBP, CADWM, MI, SWMA, Watershed & Convergence with MGNREGA were brought together under the umbrella program of PMKSY. Further the scheme seeks convergence with scheme like Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNRES), Rashtriya Krishi Vikas Yojana (RKVY), Jawaharlal Nehru National Solar Mission and Rural Electrification programmes (JLNNSM&REP), Rural Infrastructure Development Fund (RIDF), Members of Parliament Local Area Development Scheme (MPLAD), Members of Legislative Assembly Local Area Development Fund (MLALAD), Local Body Funds (LBF), Working Plan of State Forest Department (WPSFD) etc. The PMKSY will be implemented in an area development mode only by adopting a decentralized state level planning and projectised execution structure that will allow the state to draw up their own irrigation development plans based on DIPs and SIPs with a horizon of 5-7 years. The program will be supervised and coordinated utilizing the existing mechanism and structure available under Rashtriya Krishi Vikas Yojana (RKVY) program with state agriculture department acting as the State Nodal Agency for implementation of PMKSY. However, the implementing departments for the four components like AIBP, PMKSY (Har Khet Ko Pani), PMKSY (Per drop more crop) and PMKSY (watershed development) will be decided by the respective program ministry/department.

The 05 chapters along with introduction chapter, explains the profile of district, its water requirement for agriculture and allied sector, water availability, assessment of water requirement for various sectors and strategic action plan for augmentation and effective management of available water resources.

District Profile and Demography: The district of Goalpara is situated in the South bank of River Brahmaputra. The district covers an area of 1,842 square kilometers and is bounded by West and East Garo Hills districts of Meghalaya in the South and Kamrup district in the East, Dhubri district in the West and River Brahmaputra is all along in the North. The geographical location of the district is between North Latitudes of $25^0\,53'$ & $26^0\,15'$ and East Longitudes of $90^0\,07'$ & $91^0\,05'$. Goalpara is located in western part of Assam.

As per 2011 census, the total population of the district was 10,08,183 out of which population of female and male are 4,94,891 and 5,13,292. The district ranks 10th in population at state level and constitutes 3.23 per cent of state population. When compared with data as per 2001 census, the decadal growth in population of Goalpara has been 22.64%, i.e. 2.64% growth per annum. Goalpara has a sex ratio of 964 females per thousand males as against state's average of 958 females per 1000 male.

Agriculture in Goalpara Matia has the highest percentage of it's total geographical area as net sown area (72.33%) while Jaleswar has 69.92% of it's total geographical area as net sown area. In terms of forest area as percentage of total geographical area, Balijana block has 35.51% of it's total geographical area as forest area.

The economy of Goalpara district is primarily agrarian as 90 percent of the population depends for their livelihood on agriculture. Paddy is the major crop. Other important crops include wheat, maize, oil seeds, pulses, cash crop like jute, vegetables etc. The district is also known for its production of areca nut and banana. A big market of banana has come up at Darangiri to which businessmen from all over India come. The agro climatic conditions of the district are conducive for various agricultural activities. Agriculture in the district is characterized by over dependence on rainfall, predominance of seasonal crops and traditional methods of cultivation.

District Water Profile: The district is primarily rainfed. Out of the gross cropped area of 1, 06,432 ha, the extent of irrigated land is 26295 ha, i.e. 24.70% of total cropped area. Considering the block-wise data, percentage of gross irrigated land to gross cropped area is maximum in Kharmuja block, followed by Matia block, i.e. 7% and 6% respectively.

A total of 66900 ha of area is under rainfed cultivation. The area under partial irrigation has been reported to be zero across all the blocks the district.

Demand for water sources and the gap: The present water demand of the district has been assessed to be 1168.4 MCM annually. Out of the total water demand 1115.32495 mcm (95 percent) is the requirement from crop production. Nearly 46.275 mcm is required for domestic drinking water requirement and another 6.965 mcm (or 5%) is required for livestock water requirement purpose. Industrial water requirement is very low with 0.67456 mcm and there is no water requirement for power generation.

The projected water demand of the district in the year 2020 has been assessed to be 1179.99 MCM annually. Out of the total water demand 1115.32495 mcm (95 percent) is the requirement from crop production. While the availability at present is 329.9719 mcm, the present water demand is 1168.64 mcm giving rise to an unmet demand of close to 775.6681 mcm. If the existing water availability is continued the water gap is likely to increase further in future and as a result the unmet demand for water is likely to go up reaching 787.0181 mcm.

Component wise proposed plan: The proposed plan by various departments has been bifurcated into major components viz. AIBP, Har Khet ko Pani uplan, Per drop more crop and Watershed component. AIBP component has to be executed mainly by Irrigation Department and to some extent by Agriculture Engineering Department. Her Khet ko Pani and Per Drop More Crop components will be executed by Irrigation Department and Department of Agriculture. Watershed component will be taken care of by Soil Conservation department. However, all the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. It is observed that maximum share of planned outlay is for Har Khet Ko Pani (60%) followed by AIBP (24%), Per Drop More Crop (8%) and Watershed (8%). However, all the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. In terms of command area, Har Khet Ko Pani covers 56% of thte total command area planned under PMKSY in the district, followed by AIBP with 21%, Watershed 17% and Per Drop More Crop with 6%.

Department wise proposed plan: Department-wise, Department of Agriculture has the highest share by some distance with 60888.11 lakhs or 61% of the planned outlay in Goalpara. Irrigation Department has the second highest share with 31651.53 lakhs or 32% of the planned outlay. Soil Conservation Department which is responsible for watershed activities accounts for 7131.22 lakhs or 7% of the total planned outlay.

Block wise planned outlay: Out of the total plan of 996.70 crores, the maximum share of 24% is pertaining to Rongjuli block followed by Balijana block which has a share of 14%. Krishnai and Lakhipur blocks have a share of 13% each in the planned outlay for the district. Kuchdowa, Matia and Jaleswar blocks have 12%, 10% and 9% respectively of the planned outlay. Kharmuja block has the least planned outlay with Rs.4761.88 lakhs (5%).

Introduction

i. Background

Preparation of decentralized area specific district planning process visualized in various plans took concrete shape through the years and initiatives like specific guidelines on methodologies and processes for preparation of district plans; framework for preparation of perspective plan, medium term and annual plans by then planning commission in 1969 and the 73rd and 74th constitutional amendments conferring constitutional status to Panchayats at district and sub district level, local self-government in urban areas; constitution of district planning committee to consolidate the plans prepared at Panchayats and municipalities and preparation of a draft development plan for the whole district.

The decentralized planning process was strengthened further through emphasis by planning commission on preparation of district level plans and making it an integral part of the process of preparation of the states 11th five year plan. Planning commission issued guidelines in August 2006 on the preparation of the district plans. The guideline defines the district planning as '…the process of preparing an integrated plan for the local government sector in a district taking into account the resources (natural, human and financial) available and covering the sectoral activities and schemes assigned to the district level and below and those implemented through local governments in a state. The document that embodies this statement of resources and their allocation for various purposes is known as the District Plan".

Government of India through a resolution in National Development Council on 29th May 2007 conceived a special Additional Central Assistance Scheme to address the slow growth of agriculture and allied sectors by incentivizing states to draw up plans for their agriculture sectors more comprehensively. The NDC resolution states "GoI will introduce a new Additional Central Assistance scheme to incentivize states to draw up plans for their agriculture sector more comprehensively, taking agro-climatic conditions, natural resource issues and technology into account, and integrating livestock, poultry and fisheries, etc. This will involve a new scheme for Additional Central Assistance (ACA) to State Plans, administered by the Union Ministry of Agriculture over and above its existing Centrally Sponsored Schemes, to supplement the state-specific strategies including special schemes for beneficiaries of land reforms. The newly created National Rainfed Area Authority will, on request, assist states in planning for Rainfed areas".

The NDC in its resolution advised the states to prepare a comprehensive district agriculture plans (C-DAP) that will fully utilize available resources and will include allied agriculture sectors. Further, GOI issued a manual on preparation of comprehensive district agriculture plans to help the states prepare C-DAP. As per these guidelines, the objective of district planning is 'to design an integrated and participatory action plan for the development of local area in general and agriculture and allied sectors in particular'. The objectives of Comprehensive District Agriculture Plan (C-DAP) are:

To prepare a Comprehensive District Agriculture Plan (C-DAP) through participatory process involving various organisations and stakeholders.

To enable optimum utilization of scarce natural, physical & financial resources.

To assess and plan for the infrastructure required to support the agriculture development.

To establish linkages with the required institutional support services, like credit, technology transfer, ICT, research etc.

To evolve an action plan for achieving sustainable agricultural growth with food security and cropping system that will improve farmers' income.

The guidelines wanted the state/district authorities to (i) ensure that the agricultural plans are prepared for the district and then integrated into the agricultural plans of the state based on the agro-climatic conditions, availability of technology, trained manpower and natural resources;(ii) the local needs / crops / feed and fodder / animal husbandry / dairying / fisheries / priorities are reflected in the plan; (iii)the productivity gaps for important crops and livestock and fisheries are reduced; and (iv) the returns to the farmers from these are maximized.

The latest move in the process of strengthening of decentralized planning process was the Government of India guidelines issued in 2015 in the form of a template for the preparation of District Irrigation Plan (DIP) and State Irrigation Plan (SIP) as part of the Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) program and made the preparation of DIP and SIP mandatory for the state to receive funds from the program. The present District Irrigation Plan (DIP) report is a product of these long drawn efforts of Government of India to strengthen the decentralized planning process in the country focusing on the vital resource i.e., water.

Water is of vital importance for human & animal life, maintenance of ecological balance and promotion of developmental activities. Considering its vital importance and ever increasing

demand for water, making water available to multiple uses, planning and management of water resources and utilization of water economically, optimally and equitably assumes greater importance.

According to the 12th Five Year Plan, the water budget estimates of India by Ministry of Water Resources suggests an availability of 1123 Billion Cubic Meters (BCM) against a current estimated demand of 710 BCM. The Standing Committee of the Ministry of Water Resources estimates that this water demand will rise to 1093 BCM by 2025. Though the existing water availability in the immediate future seems to be adequate, the near constant supply of water resources in the face of increasing demand will strain the water supply-demand balance.

The per capita water availability which stood at 5177 cubic meters in 1951 was reduced to 1820 cubic meters in 2001, while the international prescribed limit is 1800 cubic meters. The projected per capita availability of water is 1341 cubic meters in 2025 and 1140 cubic meters in 2050 suggesting a shortage of water in the medium term[1]. Further, the all India water balance estimates does not reflect the variations in water balance across time and space-certain areas having a positive water balance and the others facing acute shortage. The problem is further accentuated by water quality related issues.

With an abundant surface and ground water supply in the first five decades since independence, more than 80 percent of the total available water resources were earmarked for irrigation purposes and the rest for meeting domestic and industrial demands. A recent study[2] on the demand for water from agriculture, domestic and industrial uses in 2000, 2025 and 2050 seems to suggest that domestic demand (34 BCM in 2000, 66 BCM in 2025 and 101 BCM in 2050) and industrial demand (42 BCM in 2000, 92 BCM in 2025 and 161 BCM in 2050) for water will utilize the total balance water available while agriculture demand for water will be 605 BCM in 2000, 675 BCM in 2025 and 637 BCM in 2050. This change is partly because of the changing sectoral contributions of India's GDP but also because of dynamics of irrigation development in the country where the initial expansion in area under

[1] Ministry of Water Resources (2011), Strategic Plan for Ministry of Water Resources, Government of India, New Delhi.
[2] Amarasinghe, U.A., Shah T., Turral, H. and Anand, B.K. 2007. *India's water future to 2025-2050: Business-as-usual scenario and deviations*. Research Report 123, International Water Management Institute, Colombo.

irrigation is propelled by the availability of abundant water resources and availability of good quality land. This is no longer the case in many states where the availability of land and water are serious constraints for further expansion of irrigation. Further, as per the estimates of the then planning commission, out of a total of 141 million hectares of net sown area in the country, 114 million hectares (81%) is Irrigation Potential Created (IPC) and 88 million hectares (62%) is Irrigation Potential Utilized (IPU), leaving almost 20% of irrigated potential unutilized as on March 2012. This leaves 40 percent of the net sown area in the country dependent on rainfall which makes farming a high risk activity.

The competing demands for water resources and the emerging issues and concerns were to be addressed through certain basic principles and commonality in approaches in dealing with planning, development and management of water resources[3] under an Integrated Water Resource Management framework. The main objectives of water resource management as delineated in National Water Policy 2012 are:
Planning, development and management of water resources need to be governed by common integrated perspective considering local, regional, State and national context, having an environmentally sound basis, keeping in view the human, social and economic needs.

Principle of equity and social justice must inform use and allocation of water.

Good governance through transparent informed decision making is crucial to the objectives of equity, social justice and sustainability. Meaningful intensive participation, transparency and accountability should guide decision making and regulation of water resources.

Water needs to be managed as a common pool community resource held, by the state, under public trust doctrine to achieve food security, support livelihood, and ensure equitable and sustainable development for all.

Water is essential for sustenance of eco-system, and therefore, minimum ecological needs should be given due consideration.

[3]Ministry of Water Resources, National Water Policy, 2012, Government of India, New Delhi.

Safe Water for drinking and sanitation should be considered as pre-emptive needs, followed by high priority allocation for other basic domestic needs (including needs of animals), achieving food security, supporting sustenance agriculture and minimum eco-system needs. Available water, after meeting the above needs, should be allocated in a manner to promote its conservation and efficient use.

All the elements of the water cycle, i.e., evapo-transpiration, precipitation, runoff, river, lakes, soil moisture, and ground water, sea, etc., are interdependent and the basic hydrological unit is the river basin, which should be considered as the basic hydrological unit for planning.

Given the limits on enhancing the availability of utilizable water resources and increased variability in supplies due to climate change, meeting the future needs will depend more on demand management, and hence, this needs to be given priority, especially through (a) evolving an agricultural system which economizes on water use and maximizes value from water, and (b) bringing in maximum efficiency in use of water and avoiding wastages.

Water quality and quantity are interlinked and need to be managed in an integrated manner, consistent with broader environmental management approaches inter-alia including the use of economic incentives and penalties to reduce pollution and wastage.

The impact of climate change on water resources availability must be factored into water management related decisions. Water using activities need to be regulated keeping in mind the local geo climatic and hydrological situation.

The National Water Policy 2012 drives the water resource management program planning and management in the country. Government of India launched Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) to address the constraints to providing assured irrigation as well as increasing efficiency and productivity of current water use to bring more prosperity to the rural areas. Priorities of Government of India were reflected in the Hon'ble President's address to the joint Session of the Parliament of 16thLok Sabha where he indicated that "***Each drop of water is precious. Government is committed to giving high priority to water security. It will complete the long pending irrigation projects on priority and launch the 'Pradhan Mantri Krishi Sinchayee Yojana' with the motto of 'Har KhetKOPani'. There is***

a need for seriously considering all options including linking of rivers, where feasible; for ensuring optimal use of our water resources to prevent the recurrence of floods and drought. By harnessing rain water through 'Jal Sanchay' and 'Jal Sinchan', we will nurture water conservation and ground water recharge. Micro irrigation will be popularized to ensure 'Per drop-More crop".

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The PMKSY will be implemented in an area development mode by adopting a decentralized state level planning and project based execution structure that will allow the state to draw up their own irrigation development plans based on DIPs and SIPs with a horizon of 5-7 years. The program will be supervised and coordinated utilizing the existing mechanism and structure available under Rashtriya Krishi Vikas Yojana (RKVY) program with state agriculture department acting as the State Nodal Agency for implementation of PMKSY. However, the implementing departments for the four components like AIBP, PMKSY (HarKhetKoPani), PMKSY (Per drop more crop) and PMKSY (watershed development) will be decided by the respective program ministry/department.

The funds under this program would be provided to the states as per the pattern of assistance of Centrally Sponsored Schemes (CSS) decided by the Ministry of Finance and NITI Aayog. During 2015-16 the existing pattern of assistance of ongoing scheme will be continued. An outlay of Rs. 50,000 crore has been approved for 2015-20. The financial assistance provided to the state governments from this centrally sponsored scheme is subject to fulfillment of

certain conditions. Firstly, a state will become eligible to access PMKSY fund only if it has prepared the District Irrigation Plans (DIP) and State Irrigation Plan (SIP), excepting for the initial year, and the expenditure in water resource development for agriculture sector in the year under consideration is not less than the baseline expenditure, which is defined as the average of the expenditure in irrigation sector irrespective of the department in the state plan in three years prior to the year under consideration. Secondly, State will be given additional weightage for levying charges on water and electricity for irrigation purposes, so as to ensure sustainability of the programme. Thirdly, inter state allocation of PMKSY fund will be decided based on (i) share of percentage of unirrigated area in the state vis-à-vis national average including prominence of areas classified under Dessert Development Programme (DDP) and Drought Prone Area Development Programme (DPAP) and (ii) increase in percentage share of expenditure on water resource development for agriculture sector in State Plan expenditure in the previous year over three years prior to it (iv) improvement in irrigation efficiency in the state.

ii. Vision

The overreaching vision of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) will be to ensure access to some means of protective irrigation to all agricultural farms in the country, to produce 'per drop more crop', thus bringing much desired rural prosperity.

iii. Objective

The objective of the PMKSY program are to:

a) Achieve convergence of investments in irrigation at the field level (preparation of district level and, if required, sub district level water use plans).

b) Enhance the physical access of water on the farm and expand cultivable area under assured irrigation (HarKhetkoPani),

c) Integration of water source, distribution and its efficient use, to make best use of water through appropriate technologies and practices.

d) Improve on-farm water use efficiency to reduce wastage and increase availability both in duration and extent,

e) Enhance the adoption of precision-irrigation and other water saving technologies (More crop per drop).

f) Enhance recharge of aquifers and introduce sustainable water conservation practices

g) 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.

h) Promote extension activities relating to water harvesting, water management and crop alignment for farmers and grass root level field functionaries.

i) Explore the feasibility of reusing treated municipal waste water for peri-urban agriculture, and

j) Attract greater private investments in irrigation.

iv. Strategy/approach

To achieve these objectives PMKSY adopted strategies that include

a) Creation of new water sources; repair, restoration and renovation of defunct water sources; construction of water harvesting structures, secondary & micro storage, groundwater development, enhancing potentials of traditional water bodies at village level like Jal Mandir (Gujarat); Khatri, Kuhl (H.P.); Zabo (Nagaland); Eri, Ooranis (T.N.); Dongs (Assam); Katas, Bandhas (Odisha and M.P.) etc.

b) Developing/augmenting distribution network where irrigation sources (both assured and protective) are available or created;

c) Promotion of scientific moisture conservation and run off control measures to improve ground water recharge so as to create opportunities for farmer to access recharged water through shallow tube/dug wells;

d) Promoting efficient water conveyance and field application devices within the farm viz, underground piping system, Drip & Sprinklers, pivots, rain-guns and other application devices etc.;

e) Encouraging community irrigation through registered user groups/farmer producers' organisations/NGOs; and

f) Farmer oriented activities like capacity building, training and exposure visits, demonstrations, farm schools, skill development in efficient water and crop management practices (crop alignment) including large scale awareness on more crop per drop of water through mass media campaign, exhibitions, field days, and extension activities through short animation films etc.

v. Programme Components

PMKSY has the following four programme components

1 Accelerated Irrigation Benefit Programme (AIBP) a) To focus on faster completion of ongoing Major and Medium Irrigation including National Projects.

2 PMKSY (Har Khet ko Pani) a) Creation of new water sources through Minor Irrigation (both surface and ground water); b) Repair, restoration and renovation of water bodies; strengthening carrying capacity of traditional water sources, construction rain water harvesting structures (Jal Sanchay); c) Command area development, strengthening and creation of distribution network from source to the farm; d) Ground water development in the areas where it is abundant, so that sink is created to store runoff/ flood water during peak rainy season. e) Improvement in water management and distribution system for water bodies to take advantage of the available source which is not tapped to its fullest capacity (deriving benefits from low hanging fruits). At least 10% of the command area to be covered under micro/precision irrigation. f) 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. g) Creating and rejuvenating traditional water storage systems like Khatri, Kuhl etc. at feasible locations.

3 PMKSY (Per Drop More Crop) a) Programme management, preparation of State/District Irrigation Plan, approval of annual action plan, Monitoring etc. b) Promoting efficient water conveyance and precision water application devices like drips, sprinklers, pivots, rain-guns in the farm (Jal Sinchan); c) 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. d) 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 AIBP, PMKSY (HarKhet ko Pani), PMKSY (Watershed) and MGNREGS as per block/district irrigation plan. e) 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; f) Water lifting devices like diesel/ electric/ solar pump sets including water carriage pipes,

underground piping system. g) 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 (Jal sarankchan); h) Capacity building, training and awareness campaign including low cost publications, use of pico projectors and low cost films for encouraging potential use water source through technological, agronomic and management practices including community irrigation. i) The extension workers will be empowered to disseminate relevant technologies under PMKSY only after requisite training is provided to them especially in the area of promotion of scientific moisture conservation and agronomic measures, improved/ innovative distribution system like pipe and box outlet system, etc. Appropriate Domain Experts will act as Master Trainers. j) Information Communication Technology (ICT) interventions through NeGP-A to be made use in the field of water use efficiency, precision irrigation technologies, on farm water management, crop alignment etc. and also to do intensive monitoring of the Scheme.

4 PMKSY (Watershed Development)

a) Effective management of runoff water and improved soil & moisture conservation activities such as ridge area treatment, drainage line treatment, rain water harvesting, in-situ moisture conservation and other allied activities on watershed basis. b) Converging with MGNREGS for creation of water source to full potential in identified backward Rainfed blocks including renovation of traditional water bodies

vi. Rationale/ Justification Statement

In reference to the status and need of irrigation, the water resource management including irrigation related priorities was identified for Goalpara district by the peoples' representatives of district with support from administration and technical experts. For instance the reports of Strategic Research and Extension Plan (SREP) prepared under ATMA program, Comprehensive District Agriculture Plan (C-DAP) prepared as part of Rashtriya Krishi Vikas Yojana (RKVY), Potential Linked Credit Plans (PLP) of NABARD and the Integrated District Development Plan etc. identified number of irrigation related issues for Goalpara district including the (i) protection of crops from abiotic stress factors including flashfloods; (i) promoting water use efficiency through sprinkler and drip irrigation; (iii) promoting protected polyhouse cultivation to minimize risk factors and enhance quality and productivity; (iv) Improvement of on-farm water delivery and efficiency of existing irrigation

systems; (v) promotion of soil conservation of arable & non-arable land through engineering measures; (vi) creation of new water harvesting structures, check dams, ponds, tanks, etc. and (vii) land improvement measures.

vii. Methodology

During the course of preparation of District Irrigation Plan (DIP) the team visited Goalpara district to collect data and have interaction with all the stakeholders. The Methodology adopted to prepare DIP is outlined in brief as under:

Collection of primary and secondary data from multiple sources including Season and Crop Reports, Statistical Handbook, District Census Handbook and other published documents and websites of different departments.

Meetings with state government departments and related institutions were held and meeting through VC was also held with state level authorities.

Discussions and interviews were held with officers of agriculture department, horticulture department, sub division soil conservation office, Agriculture Technology Management Agency (ATMA), District Watershed Development Agency (DWDA) of District Rural Development Agency (DRDA), Animal Husbandry department, Irrigation and Public Health department to identify the key issues and key focus areas of the region.

On the basis of detailed discussion and analysis of data, the team arrived at the projections of various components of PMKSY and Department wise plan.

Chapter 1: General Information of the District

1.1 District Profile

The district of Goalpara is situated in the South bank of River Brahmaputra. The district covers an area of 1,842 square kilometers and is bounded by West and East Garo Hills districts of Meghalaya in the South and Kamrup district in the East, Dhubri district in the West and River Brahmaputra is all along in the North. The geographical location of the district is between North Latitudes of 25^0 53′ & 26^0 15 ′and East Longitudes of 90^0 07′ & 91^0 05′. Goalpara is located in western part of Assam. The district is well connected by NH-37, NH-51, NH-31B, road and Railway Network. The Headquarters of Goalpara district i.e. Goalpara Town is situated on the south bank of the River Brahmaputra and it may be approached mainly by roads from both the sides. After construction of the Naranarayan Setu (Bridge) over the mighty River Brahmaputra, road communication from the north bank has become easy and convenient. As per 2001 census, the total population of the district is 10,08,959. The density of population is 547 persons per sq. km. Different communities' stay in the district. The district experiences moderate climate during winter and hot in summer. Irregular rain starts in the month of April with occasional and irregular light showers and continues up to the end of May. This rain occurs due to the influence of Northeastern wind. Normal monsoon begins from the early part of June and heavy rains occur in the district till the month of October. About 80% rainfall is received from South-West monsoon. The maximum temperature is 33^0C during July to August and the minimum dips down to 7^0C in the month of January. The district is primarily an agrarian as 90% of the population depend for their livelihood on agriculture. The principal agriculture produce are paddy, Jute, green and black gram and potato etc. A big market of banana has come up at Darangiri in the district. There is a bumper production of paddy due to large-scale distribution of STWs along with diesel water-pump sets by the Agriculture department in the district. Physiographically, the area is occupied both by hills and plains. The alluvial land is flat with a gentle regional slope towards Brahmaputra River. The hills mostly occur as isolated inselberg with heights ranging between 60 to 300 m above MSL. The hills are veneered by lateritic mantle and are deeply forested with evergreen mixed open jungles. Tongue like projections of the main Shillong Plateau is also seen in the area around Agia, Krishnai, and southeast part of Rangjuli. The drainage of the entire area is controlled by two different systems of rivers. Towards the east, a northerly flowing river system drains the area, which consists of

tributaries of the mighty Brahmaputra River. In the west of Agia, the drainage is 2 controlled by Jinrana River, which flows in a westerly direction parallel to Brahmaputra River. The main tributaries of the Brahmaputra River in the district are Dudhnoi, Krishnai, Jinjiram, jinari and Deosila. The Rivers are all perennial in nature. Natural lake such as Urpad Beel, Hasila Beel, Kumuri Beel and Dhamar Risan Beel exist in the district and several other artificial ponds are also seen.

Table 1.1: District profile

Name of the District	District Code	Latitude	Longitude
Goalpara	302	26° 10'N	90° 37'E

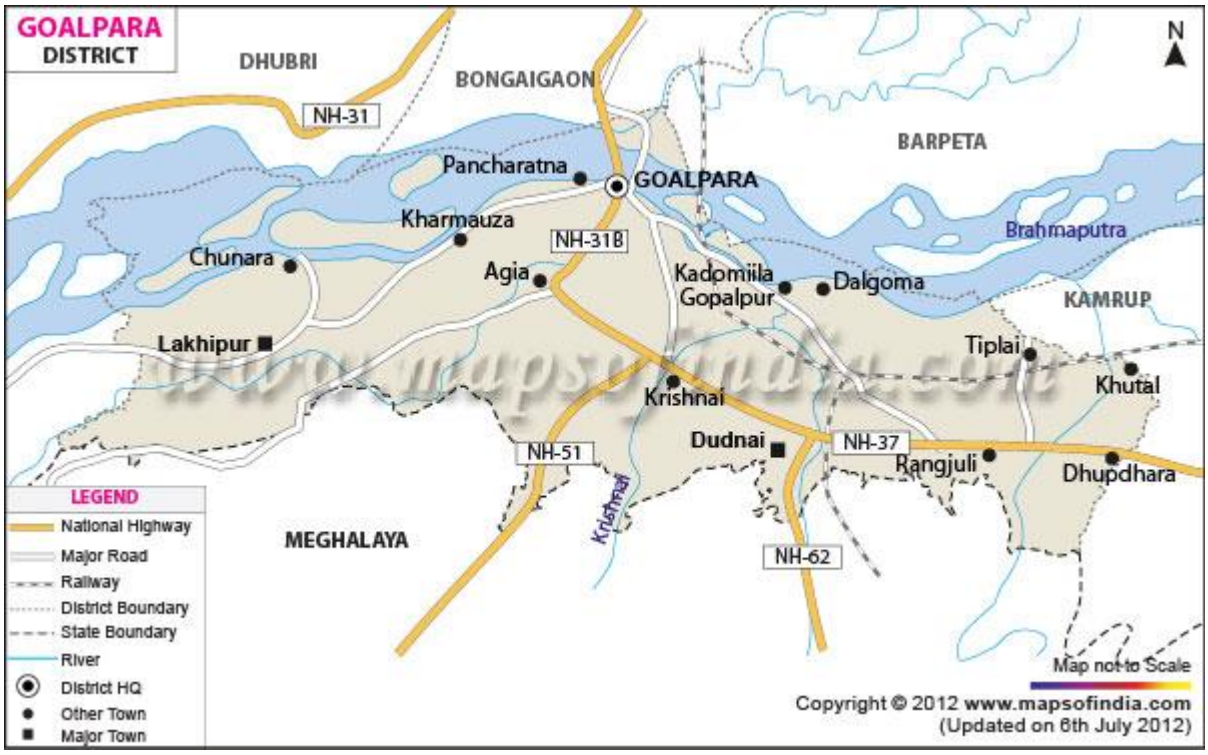

Figure 1.1: Map of Goalpara district

Source: www.mapsofindia.com

Brief History of the district

Goalpara is one of the oldest administrative district in the state of Assam. This district was originally created by the British in 1876. Goalpara

district was a princely state ruled by the Rajbongsi Kings and the then ruler of the undivided kingdom. Presently the erstwhile Goalpara district is divided into Kokrajhar, Bongaigaon, Dhubri, and Goalpara district. The district is mostly inhabited by Koch Rajbongshis, Bengali Hindu and Muslims and widely spoken language is Goalpariya along with Bengali and Assamese.
The name of the district Goalpara is widely said to have originally derived from `Gwaltippika` meaning `Guwali village` or the village of the milk men.The history of Goalpara goes back to several centuries. Based on the Chinese traveler `Hiuentsang` report, Sir Edward Gait had concluded that the erstwhile capital of the state of Kumar Bhaskar Varman was either in Goalpara district or in Cooch Behar. The district came under British rule in 1765. Before this, the area was under the control of the Koch dynasty In 1826 the British accessed Assam and Goalpara was annexed to Assam in 1874, along with the creation of district headquarters at Dhubri. On 1 July, 1983 two districts were split from Goalpara: Dhubri and Kokrajhar. On 29 September, 1989 Bongaigaon district was created from parts of Goalpara and Kokrajhar
It is doubtful whether at any period of the past, before its annexation by the British the whole of the area now forming the Goalpara district was a separate polity under its own rulers .Its history has to be considered in connection with those of the various states of which from time to time it formed a part. It is believed that it was originally included in the ancient kingdom of Kamrupa mentioned in the Mahabharata and it is also said that it was first conquered by the Paul kings of Bengal. But there are practically no records of such even. It is said that this district subsequently formed a part of Kamata kingdom and in the 15th century it fell within the dominions of the 'Khen' Princess whose capitals Kamatapur was overrun by the Muslim in 1498 A.D. A few years later it passed in to the hand of the Koch kings, which in 1580 A.D were bifurcated. In this partition the region east of the Sankosh river including Goalpara, Kamrup and Darrang was surrendered to RaghuRai, nephew of Naranarayan in the territory lying to west of the river was reserved for Naranarayan`s sons. In dispute between their two families, the Mohammedans who had been called by Naranarayan's son for his help conquered Goalpara. For some years war dragged on between the Muslims and the Ahoms. Once Ahom reoccupied Kajali, peace was concluded fixing the Barnadi on the north and the Asurar Ali on the south of the Brahmaputra as boundary between the Ahoms and

Mohammedans. In 1658 A.D Prananarayan, Raja of Koch Bihar attacked Goalpara and occupied it. The Mughal governor retreated to Guwahati. As the Ahoms were advancing to Guwahati he fled by boat to Dhaka. The Ahoms continued their advance to Goalpara and drove back Prananarayan across the Sankosh. Thus Goalpara was seized by the Ahoms who retained it under their control for three years till 1661 A.D. when Mir Jumla, Governor of Bengal invaded Assam. From then onwards Goalpara formed part of the Muslim dominion till it was with rest of Bengal ceded to the British in 1765 A.D. and passed into the possession of the East India Company.
The district underwent several jurisdiction changes under the British. Initially this was the formed part of the permanently settled district of the Rangpur in Bengal. In 1822, this area was separated from Rangpur and along with Garo hills formed the district of the North and East Rangpur when Assam was ceded to the British in 1826, Goalpara was annexed to the Assam valley division. But, in 1866, Goalpara was separated from the province of Assam and placed under the commissioner of Koch Bihar division. In 1869 the Garo hills was formed in to a separate district. Goalpara was finally incorporated in the new province when Assam was created in to a separate administration in 1874 during post– independence period; the jurisdiction of the district has undergone a great of change. Two of the Sub- Divisions namely Kokrajhar and Dhubri of the district were taken away from this district in 1983. Thereafter in 1989 her area was again reduced when she lost her North Salmara Subdivision to the newly formed district of Bongaigaon. Goalpara Municipality was the second oldest Municipality in Assam. The first post office in Assam was established in Goalpara district.

Administrative setup

Presently the district is bounded on the east by the Kamrup, on the north by the district Dhubri, Bongaigaon and Barpeta, on the west by Dhubri and on the south by the state of Meghalaya. The district of Goalpara comprises of only Sadar sub-division. Goalpara has it's headquarters at Goalpara and possess five revenue circles with eight Community Development Blocks encompassing 829 villages. The five revenue circles are Lakhipur, Balijana, Matia, Dudhnoi and Rongjuli. The district occupies 11 towns that includes one

Municipal Board, one Town Committee and 9 census towns. Goalpara district covers an area of 1824 sq.km. (Rural: 1759.99 sq.km and Urban: 64.45 sq.km)

1.2 Demography

As per 2011 census, the total population of the district was 10,08,183 out of which population of female and male are 4,94,891 and 5,13,292. The district ranks 10th in population at state level and constitutes 3.23 per cent of state population. When compared with data as per 2001 census, the decadal growth in population of Goalpara has been 22.64%, i.e. 2.64% growth per annum. Goalpara has a sex ratio of 964 females per thousand males as against state's average of 958 females per 1000 male. It has a literacy rate of 67.37%, slightly lower than the state literacy rate of 72.19%. For male population, the literacy rate in the district is 71.46% while it is comparatively low for females at 63.13%.

Table 1.2: Demography of Goalpara

Name of block	**Male**	**Female**
Balijana	57128	55299
Kharmuja	47594	45219
Lakhipur	57287	55084
Jaleswar	77551	73912
Matia	73892	70175
Rangjuli	56796	55418
Khuchdowa	45179	45288
Krishnai	56955	55137

Source: Census 2011

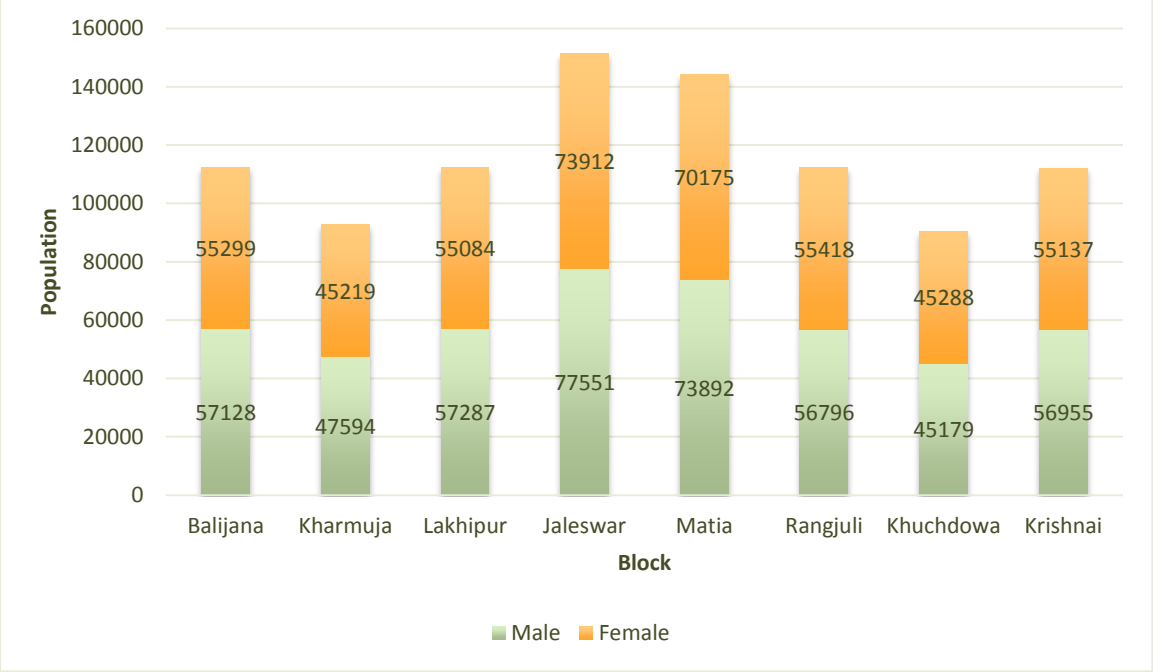

Figure 1.2: Demography of Goalpara

The population density of Goalpara district as recorded by 2011 census is 553 people per sq. km. Compared to the population density of the state (398 person per sq km), the current population density of Goalpara is very much on the higher side.

Table 1.3 : Category wise distribution of population in Goalpara

Block	**SC population**	**ST population**	**General population**
Balijana	4541	55636	52220
Kharmuja	216	425	92172
Lakhipur	2665	24199	86022
Jaleswar	850	750	149863
Matia	8344	8014	127708
Rangjuli	12864	41728	57622
Khuchdowa	3859	56812	29796
Krishnai	2758	38988	70346

Source: Census 2011

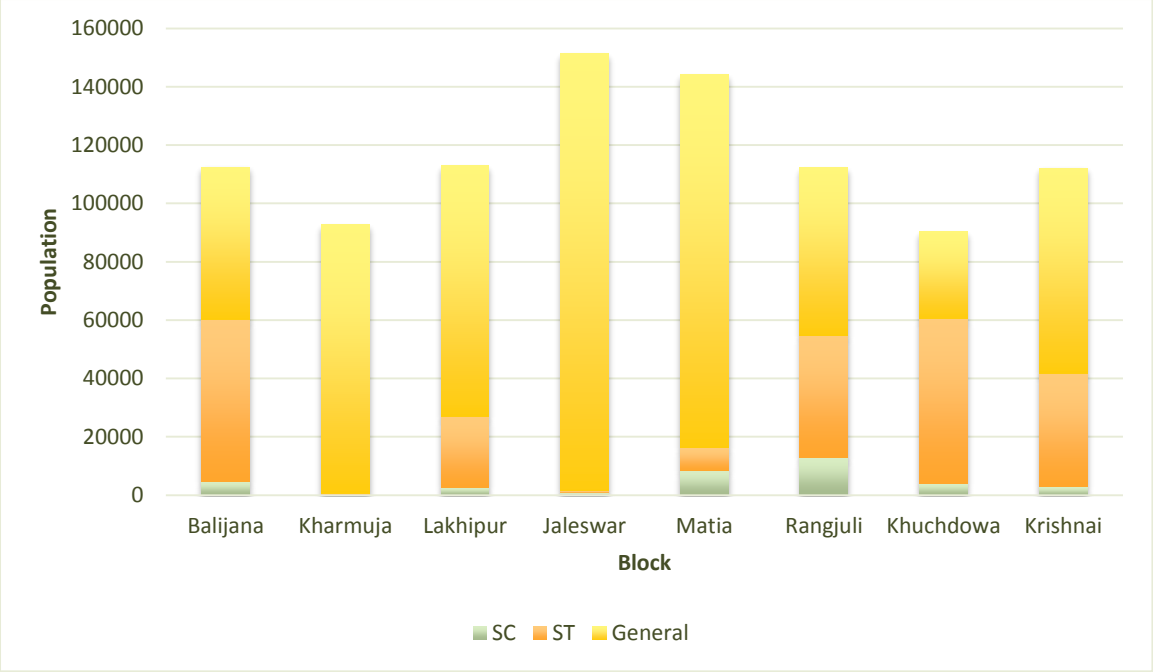

Figure 1.3: Category wise distribution of population

Jaleswar block is residence for 15% of the population of the district, followed by Matia block that contains 14.28% population of the district. The total number of SC and ST population in the district are 45,094 and 2,31,570 respectively. In Rangjuli block, the SC population is 11.46% of total population in the block. The percentage of SC population is 4.26% in Khuchdowa block. In case of ST population, the percentage of ST population is maximum (62.79% of the total population residing in the block) in Khuchdowa block.

1.3 Biomass and livestock

Dairy Farming

Dairy farming provides economic security to the farmers by acting as a hedge against crop failure. Animal husbandry plays an important role in socio-economic life and sustain the livelihood of farmers. The agro climatic condition of the district is suitable for undertaking dairy farming. Dairy farming is considered as one of the subsidiary activities of the people of the district. It provides additional income to farm families by sale of milk, calves, heifers, bullocks, manure, etc.

Table 1.4: Number of large animals in Goalpara

Large Animal			
Indigenous Cow (Nos.)	**Hybrid Cow (Nos.)**	**In Descriptive Buffalo (Nos.)**	**Hybrid Buffalo (Nos.)**
159,236	3935	8315	Nil

Source: Animal Husbandry Department, Goalpara

Table 1.5: Number of milch cows and buffaloes in Goalpara

Milch Cow		Buffalo
Hybrid	**Indigeneous**	
1500	62,172	838

Source: Animal Husbandry Department, Goalpara

Poultry farming

Commercialization in poultry is yet to take shape in the district due to problems on the input front as well high level of uncertainty. Presently, the neighbouring states like West Bengal and Bihar are catering to the inputs like docks & feed for the district. Compared to chicken farming, duck rearing (small units) has made good progress due to the favourable environment available in the district. Establishment of commercial hatcheries and feed plants would encourage the development of the sector as the same is presently being procured from outside the district/ state, leading to increase in cost of input.

Table 1.6: Number of small animals in Goalpara

Small Animals			
Poultry	**Pigs**	**Goats**	**Sheep**
9,49,695	60,898	1,33,222	29,095

Source: Animal Husbandry Department, Goalpara

Among small animals poultry is the most common livestock in the district with 80.96% of the total livestock population among small animals being poultry. Looking at the entire district which has 1, 98, 080 households, then on average each household has 4.79 poultry. Goats are

the second most common livestock after poultry with 11.35% of small animals being goats followed thereafter by pigs (5.19%) and sheep (2.48%).

Goat and Pig rearing

Goat and Pig rearing are common among the farmers in the district. For majority of farmers being small and marginal, these activities are able to provide them supplementary income. Goat rearing and Piggery is mostly being done on a small scale with local varieties only. The activities are thriving in the district due to the excellent demand for the pork and meat. As per the latest census (2012), there were 94259 goats and 58585 pigs in the district. Sheep rearing activity has not picked up in the district where as goat rearing is very popular. Black Bengal goats are common in the rural areas. The cross breeding programme in piggery has resulted in the share of cross bred (Hampshire mostly) animals going upto 29%. KVK, Goalpara has identified a village in the district for cross breeding of pigs by AI. Given the large tribal population in the district, there is good scope for setting up of a pork processing plant at Dudhnoi. Further, farmers looking to take up goatery face the problem of getting good breed of goat. A goat breeding farm if set up in the district would help to overcome the constraint.

Other Activities: Bullocks, Bullock carts,etc.

Goalpara district is predominantly agrarian in nature and farm mechanisation has not gained momentum due to fragmentation of land holdings and other associated reasons. Farming community in the district is still dependent on animal draught power for cultivation as well as transport purposes. As per the 2003 census, the number of plough bullocks in the district are 143295. However the data on the actual number of bullock carts in the district is not available.

There are a number of agro based industries as well as other trade establishments, which requires the transportation of raw materials/ agricultural products and finished products to market/ mandies. With 81391 land holdings in the hands of small/marginal farmers and around 85,000 ha. Under paddy, there is potential for work bullocks. Following table shows number of draft animals in Goalpara:

Table 1.7: Number of draft animals in Goalpara

Draft Animal	
Buffalo	**Bull**

3162	70,772

Source: Animal Husbandry Department, Goalpara

1.4 Agro ecology, Climate, Hydrology and Topography

Table 1.8: Agro ecology in Goalpara

Block	**Agro ecological zone**	**Block Area**
Krishnai	Foot Hill Old Mountain Vanney	25808.57
	Flood Free Old Riverine Alluvial Middle Plains	
	Flood Prone Recent Riverine Alluvial Plains	
	Hills and Hillocks	
Kuchdhuwa	Flood Free Old Riverine Alluvial Middle Plains	17653.25
	Flood Prone	
Lakhipur	Flood Free Old Riverine	24312
	Flood Prone Recent Riverine Alluvial Plains	
	Hills and Hillock	
	Char Land	
Balijana	Foot Hill Old Mountain Valley Alluvial	28633.9
	Flood Free Old Riverine Alluvial Middle Plains	
	Flood Prone Recent Riverine Alluvial Plains	
	Hills and Hillock	
	Char Land	
Jaleswar	Flood Free Old Riverine Alluvial Middle Plains	18234
	Flood Prone Recent Riverine Alluvial Plains	
	Hills and Hillock	
	Char Land	

Kharmuza	Foot Hill Old Mountain	18247.8
	Foot Free Old Riverine Middle Plains	
	Flood Prone Recent Riverine Alluvial Plains	
	Hills and Hillocks	
	Char Land	
Rangjuli	Foot Hill Old Mountain	30024.5
	Flood Free Old Riverine Alluvial Middle	
	Flood Prone Recent	
	Hills and Hillocks	
Matia	Foot Free Old Riverine Alluvial Middle Plains	19486.3
	Flood Prone Recent Riverine Alluvial Plains	
	Char Land	

Geomorphic Features and Landforms

The topography of Goalpara district is generally characterized by an almost flat plain except for few low-forested hills that break the monotony of the terrain. The main hills are Pancharatna, Sri Surjya, Tukreswari, Nalanga & Paglartek with elevations ranging from 100 to 500 m. A significance of the district is the existence of a large number of Char (Riverine tracts and sandy river island) in the River Brahmaputra. The mighty River Brahmaputra flows East to West on the Northern boundary of district and the main tributaries are River Dudhnoi, Krishnai, Jinjiram and Jinary. Dudhnoi and Krishnai Rivers originate from hills of Meghalaya, then join each other in the Western part of Matia and flows as River Mornoi up to its confluence with the Brahmaputra. The Jinjiram originates from Urpad Beel flows parallel to the Brahmaputra and ultimately joins near South Salmara of Dhubri District .The Rivers are all perennial in nature. There are a few other minor streams in the District. A number of Beels (natural reserve forests, lakes) such as Urapd Beel, Hashila Beel, Kumri Beel and Dhamar Risan Beel exist in the district and several other artificial ponds are also seen. Physiographic ally, the area is occupied by both the hills and plains. The alluvial land is flat with a gentle regional slope of less than 1 m/km towards Brahmaputra River. The hills mostly occur as isolated inselberg whose areas vary from less than 1 sq km to almost 15 sq

km (e.g. inselberg west of Goalpara town) with heights ranging between 60 to 300 m above MSL. The hills are veneered by lateritic mantle and are deeply forested with evergreen mixed open jungles. Tongue like projections of the main Shillong Plateau are also seen in the area around Agia (26o 05′ / 90o 33′), Krishnai (26o02′ / 90o 39′), and southeast of Rangjuli (25o58′ / 90o04′). The height of the hills varies between 60 and 550 m above MSL.

Rainfall and Climate

The climate in the district is moderate during the winter and in summer, it is hot. Rain makes its first appearance in the month of April with occasional and irregular light showers and at times, heavy down pour is followed by cyclonic storm. This irregular rainfall continues up to the end of May. It occurs due to the influence of Northeaster wind. Monsoon rain normally begins from the early part of the month of June and heavy rain occurs in the district till the month of September. The maximum temperature is 33 degree Celsius during July and August, a minimum temperature falls up to 7 degree Celsius in the month of January. During 2002, rainfall in the district is 2,424.01 mm. About 80% of rainfall is from South-West monsoon.

1.5 Soil Profile

Table 1.9: Soil Profile in Goalpara

Soil Series	Area (ha)	Land Slope (% slope gradient)	Description of Soil Series
Dudhnai	11,480	Very gently sloping (1-3%)	Fine , mixed, hyperthermic family of Oxyaquic Dystrudepts
Goalpara	7,223	Nearly level (0-1 %)	Fine, mixed, hyperthermic family of Humic Endoaquepts
Garopara	7,666	Moderately steep hill slopes (15-25%)	Fine loamy ,mixed, hyperthermic family of Typic Hapludalfs
Jinjiram	17,866	Very gently sloping (1-3%)	Fine ,mixed, hyperthermic family of Aeric Endoaquepts
Krishnai	24,077	Very gently sloping (1-3%)	Fine ,mixed, hyperthermic family of Aeric Endoaquepts
Lakhipur	16,051	Gently Sloping	Fine -silty ,mixed, hyperthermic family of Aeric Fluvaquents

Ranjauli	1,024	Steeply sloping hills (> 33%)	Loamy-skeletal, mixed, hyperthermic family of Dystric Eutrudepts

Source: ICAR – National Bureau of Soil Survey & Land Use Planning, Jorhat

The plain areas bordering Brahmaputra River and in between the inselbergs are occupied by alluvial sediments belonging to Quaternary ages. Based on such criteria such as sedimentation, soil characteristics and geomorphic features, the Quaternary sediments can be grouped into two subdivisions, viz. (i) Older Alluvium, and (ii) Younger alluvium. The Older alluvium by virtue of its relative maturity is composed of somewhat oxidized sediments comprising yellow and the reddish brown colour sand, silt and clay in contrast to the light colour, less compact Younger alluvial sediment. The Older alluvium always occupies the higher grounds than the adjacent Younger alluvium but takes the proper stratigraphical position underlying the Younger alluvium sediments in the plain areas. A scarp as seen in the Krishnai River valley sometimes separates these two groups**.**

1.7 Land Use Pattern

The total geographical area (TGA) of Goalpara is 1,82,400.4 hectare. The largest block of the district is Rangjuli which comprises of a TGA of 3,00,24.5 hectare i.e. about 16.46% of the TGA of the district.

Table 1.10: Land use pattern of Goalpara

District	**Total Geographical Area**	**Area under Agriculture**			
		Gross Cropped Area (1)	**Net Sown Area (2)**	**Area sown more than once (1-2)**	**Cropping intensity (%)**
Goalpara	182400	161350	102648	58702	158

Source: PLP 2016-17, Goalpara District

Table 1.11: Block-wise land use pattern in Goalpara

	Block	Total Geographical Area	Net Sown Area	Area under Forest	Area under Wasteland
1	Rangjuli	30024.5	15225	6192.54	4948.81
2	Khuchdowa	17653.3	10607	2764.32	807.24
3	Krishnai	25808.6	13240	7377.01	4971
4	Matia	19486.3	14095	3877.14	2330
5	Balijana	28633.9	12747	10169.5	422
6	Kharmuja	18247.8	11594	1550.5	2795.85
7	Lakhipur	24312	12390	1984.52	5011.75
8	Jaleswar	18234	12750	2514.47	4971

Source: Agriculture Department, Goalpara

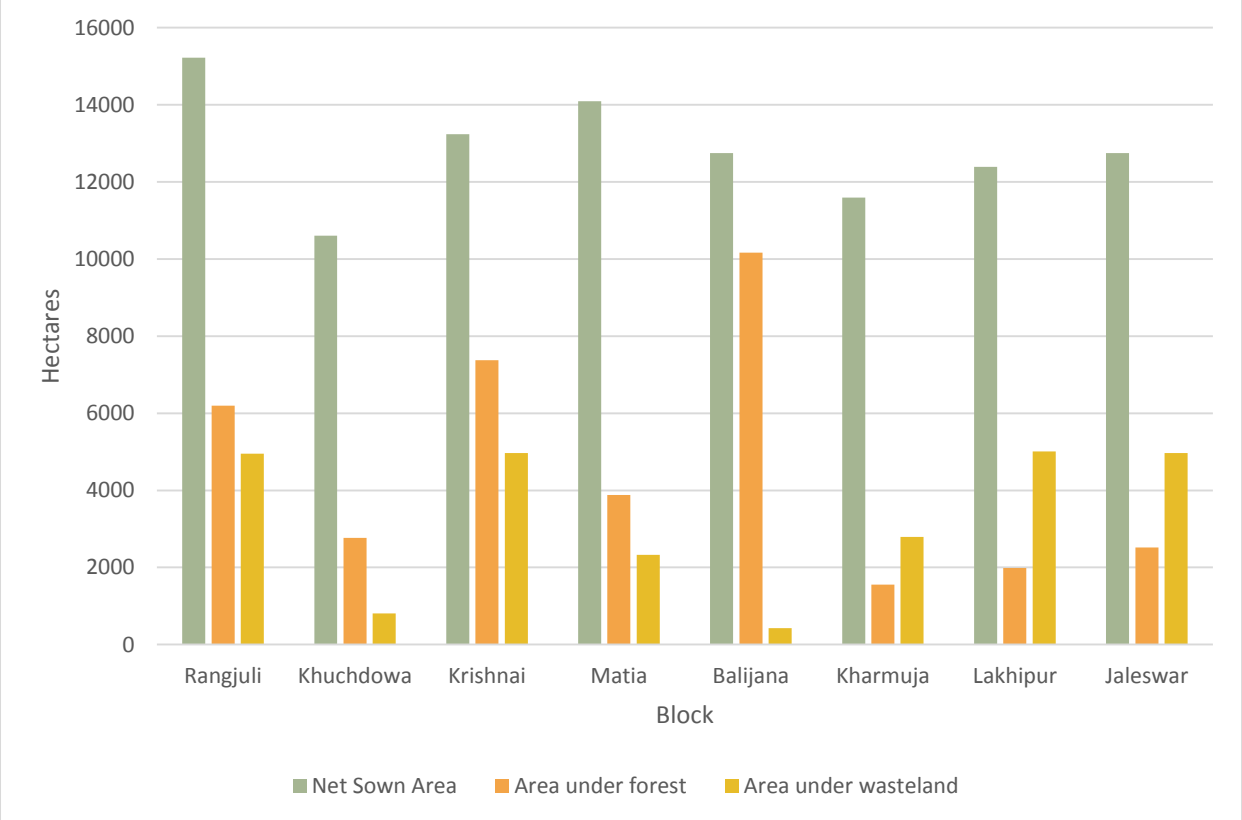

Figure 1.4: Land use pattern in Goalpara

Matia has the highest percentage of it's total geographical area as net sown area (72.33%) while Jaleswar has 69.92% of it's total geographical area as net sown area. In terms of forest area as percentage of total geographical area, Balijana block has 35.51% of it's total geographical area as forest area. The development of forestry sector assumes greater significance as it not only provides direct benefits in terms of production of timber, sandal wood, fodder etc. but also intangible benefits on the fragile eco-system. There is scope for improving the density of trees in the forest areas as also afforestation on problematic / wasteland available in the district and through diversification of agriculture to agro forestry.

Within Goalpara, Balijana block contributes for maximum forest area i.e. 35.51% (10169.5 hectare) of the total forest area of the district followed by Krishnai block (28.58%, 7377.01hectare) and Rangjuli (18%, 6192.54 hectare).

Chapter 2: District Water Profile

2.1 Area-wise, Crop-wise Irrigation status

The economy of Goalpara district is primarily agrarian as 90 percent of the population depends for their livelihood on agriculture. Paddy is the major crop. Other important crops include wheat, maize, oil seeds, pulses, cash crop like jute, vegetables etc. The district is also known for its production of areca nut and banana. A big market of banana has come up at Darangiri to which businessmen from all over India come. The agro climatic conditions of the district are conducive for various agricultural activities. Agriculture in the district is characterized by over dependence on rainfall, predominance of seasonal crops and traditional methods of cultivation.

Table 2.1: Area-wise crop-wise irrigation status

Block: Khuchdowa

Crop Type	Kharif (Area in ha)			Rabi (Area in ha)			Summer Crop(Area in ha)			Total (Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rain fed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
A.cereals	700	8800	9500	-	-	-	911	-	911	1611	8800	10411
B.Coarse Cereals	-	-	-	-	-	-	-	-	-	-	-	-
C.Pulses	-	-	-	-	200	200	-	-	-	-	200	200
D.Oil Seeds	-	-	-	-	200	200	-	-	-	-	200	200
E.Fibre	-	-	-	-	-	-	-	-	-	-	-	-
F. Vegteable	-	-	-	969	131	1100	-	-	-	969	131	1100
G.Any other Crops	-	200	200	1200	500	1700	-	-	-	1200	700	1900

Block: Krishnai

Crop Type	Kharif (Area in ha)			Rabi (Area in ha)			Summer Crop(Area in ha)			Total (Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rain fed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
A.cereal	500	13779	14279	-	-	-	100	-	-	1500	137	15279

s							0				79	
B.Coarse Cereals	-	-	-	-	-	-	-	-	-	-	-	-
C.Pulses	-	-	-	-	-	-	-	-	-	-	-	-
D.Oil Seeds	-	-	-	-	300	300	-	-	-	-	300	300
E.Fibre	-	200	200	-	-	-	-	-	-	-	200	200
F.Vegetable	-	-	-	481	500	981	-	-	-	481	500	981
G. Any other crops	-	900	900	400	1000	1400	-	-	-	400	1900	2300

Block: Matia

Crop Type	Kharif (Area in ha)			Rabi (Area in ha)			Summer Crop(Area in ha)			Total (Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
A.cereals	800	5400	6200	-	-	-	500	-	500	1300	5400	6700
B.Coarse Cereals	-	-	-	-	-	-	-	-	-	-	-	-
C.Pulses	-	50	50	-	1500	1500	-	-	-	-	1550	1550
D.Oil Seeds	-	-	-	500	1200	1700	-	-	-	500	1200	1700
E.Fibre	-	800	800	-	-	-	-	-	-	-	800	800
F.Vegetable	-	2000	2000	3000	2000	5000	-	-	-	3000	4000	7000
G. Any other crops	-	1500	1500	1786	2150	3936	-	-	-	1786	3650	5436

Block: Balijana

Crop Type	Kharif (Area in ha)			Rabi (Area in ha)			Summer Crop(Area in ha)			Total (Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total

A.cereals	150	9921	10071	-	-	-	400	-	400	550	9921	10471
B.Coarse Cereals	-	-	-	-	-	-	-	-	-	-	-	-
C.Pulses	-	-	-	-	300	300	-	-	-	-	300	300
D.Oil Seeds	-	-	-	500	1400	2100	-	-	-	500	1400	2100
E.Fibre	-	400	400	-	-	-	-	-	-	-	400	400
F.Vegetable	-	200	200	1000	100	1100	-	-	-	1000	300	1300
G. Any other crops	-	500	500	-	2500	2500	-	-	-	-	3000	3000

Block: Kharmuja

Crop Type	Kharif (Area in ha)			Rabi (Area in ha)			Summer Crop(Area in ha)			Total (Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rain fed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
A.cereals	600	5100	5700	-	-	-	2487	-	2487	3087	5100	8187
B.Coarse Cereals	-	-	-	-	-	-	-	-	-	-	-	-
C.Pulses	-	-	-	100	1200	1300	-	-	-	100	1200	1300
D.Oil Seeds	-	-	-	1000	500	1500	-	-	-	1000	500	1500
E.Fibre	-	1000	1000	-	-	-	-	-	-	-	1000	1000
F.Vegetable	-	-	-	3000	287	3287	-	-	-	3000	287	3287
G. Any other crops	-	2000	2000	-	1600	1600	-	-	-	-	3600	3600

Block: Lakhipur

Crop Type	Kharif (Area in ha)			Rabi (Area in ha)			Summer Crop(Area in ha)			Total (Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
A.cereals	800	5100	5900	-	-	-	3076	-	3076	3876	5100	8976
B.Coarse Cereals	-	-	-	-	-	-	-	-	-	-	-	-
C.Pulses	-	-	-	-	1200	-	-	-	-	-	1200	1200
D.Oil Seeds	-	-	-	962	838	1800	-	-	-	962	838	1800
E.Fibre	-	1485	1485	-	-	-	-	-	-	-	1485	1485
F.Vegetable	-	700	700	1500	276	1776	200	-	-	1700	976	2676
G. Any other crops	-	1800	1800	600	1400	2000	-	-	-	600	3200	3800

Block: Jaleswar

Crop Type	Kharif (Area in ha)			Rabi (Area in ha)			Summer Crop(Area in ha)			Total (Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
A.cereals	300	3400	3700	-	-	-	2000	1500	3500	2300	4900	7200
B.Coarse Cereals	-	-	-	-	-	-	-	-	-	-	-	-
C. Pulses	-	-	-	-	2000	2000	-	-	-	-	2000	2000

D. Oil Seeds	-	-	-	1000	400	1400	-	-	-	1000	400	1400
E. Fibre	-	1200	1200	-	-	-	-	-	-	-	1200	1200
F. Vegetable	-	2500	2500	3000	300	3300	-	-	-	3000	2800	5800
G. Any other crops	-	2000	2000	-	1825	1825	-	-	-	-	3825	3825

Table 2.2: Irrigated and unirrigated area in Goalpara district

	Block	**Total Area Sown**	**Irrigated**		**Rainfed**	
1	Kuchdowa	10607	2935	27.67%	7672	72.32%
2	Rangjuli	15225	2909	19.11%	12316	80.89%
3	Krishnai	13240	1607	12.10%	11633	87.86%
4	Matia	14095	3054	21.66%	11041	78.33%
5	Balijana	12747	1866	14.64%	10881	85.36%
6	Kharmuja	11594	4966	42.83%	6628	57.16%
7	Lakhipur	12390	5055	40.80%	7335	59.20%
8	Jaleswar	12750	4119	32.30%	8631	67.69%

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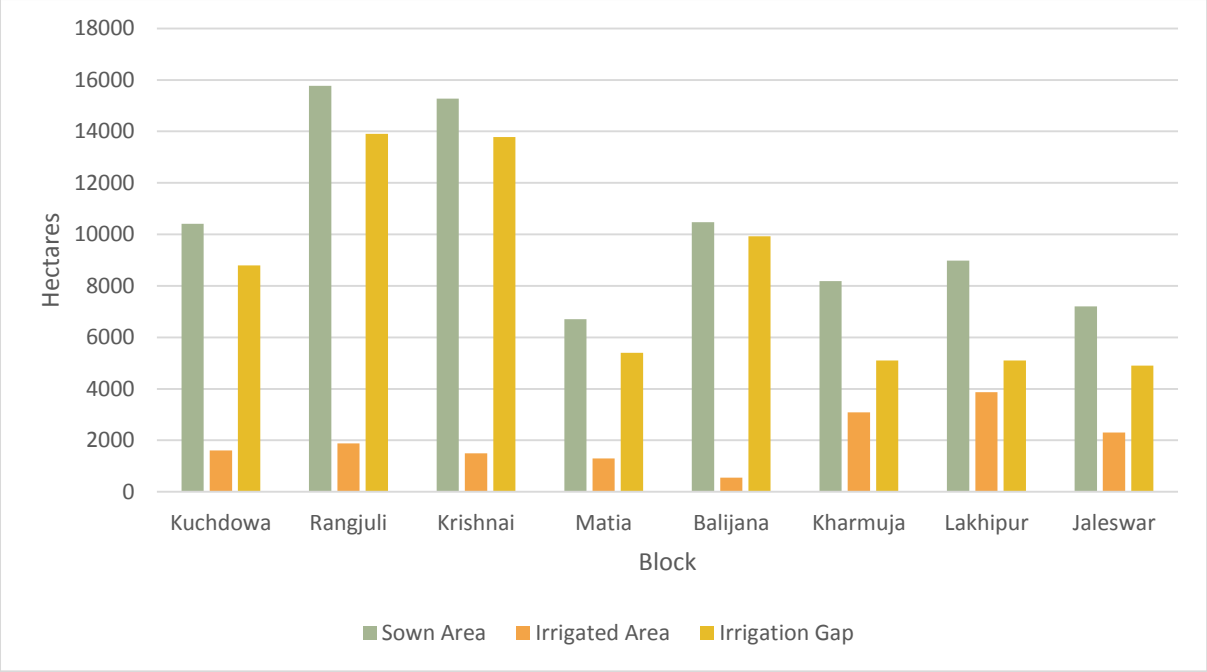

Figure 2.1: Irrigation gap in Goalpara

The irrigation gap in absolute terms is highest in Rangjuli and Krishnai blocks with irrigation gap being 13900 and 13779 hectares respectively. In terms of percentage of total area sown however, Balijana block has 94% of it's net area sown as unirrigated and Krishnai block has 90% of net sown area as unirrigated.

2.2 Production and Productivity of Major Crops

Table 2.3: Area, production and productivity of crops from 2011-12 to 2014-15 in Goalpara

Crops	2011-12			2012-13			2013-14			2014-15		
	Area	Productivity	Production	Area	Productivity	Production	Area	Productivity	Production	Area	Productivity	Production
1	2	3	4	5	6	7	8	9	10	11	12	13
Rice												
Autumn	8690	1228	10501	8410	1396	11553	8624	1134	9625	8062	952	7552
Winter	49000	1545	74569	49200	1939	93968	49245	2400	116414	50772	2104	105221
Summer	19000	4078	77485	25000	3175	79375	25290	3252	82243	25434	3187	81058
Total=District	**76690**	**2168**	**162555**	**82610**	**2262**	**184895**	**83159**	**2531**	**208282**	**84268**	**2325**	**193831**
Total=State	**2545707**	**1876**	**4715678**	**2488228**	**2088**	**512858**	**250321**	**2101**	**5193379**	**2495297**	**2120**	**5222645**
Oil seeds												
Rape/Mustard	4500	405	1824	5000	487	2433	7791	500	3893	7791	440	3428
Castor	21	456	10	26	462	12	28	1375	39	28	515	14
Nizer	1200	509	611	960	517	496	870	925	805	890	925	823
Linseed	430	589	253	450	214	426	460	1020	469	257	672	173
Sesamum	345	487	168	350	506	177	400	1300	520	448	543	243
Total=District	**6496**	**441**	**2866**	**6786**	**491**	**3332**	**9549**	**600**	**5726**	**9414**	**497**	**4681**
Total=State	**276234**	**565**	**155536**	**305946**	**611**	**186819**	**305025**	**611**	**186342**	**306890**	**670**	**205685**
Cash crops												
Jute	3300	1722	31570	4150	1684	38828	4320	1311	31318	5233	1590	46222
Mesta	138	791	606	54	909	273	228	1980	2508	343	940	1791
Sugarcane	210	37055	7782	230	35617	8191	241	36296	124132	247	36350	134473
Total	**3548**	**-**	**39958**	**4434**	**-**	**47292**	**4789**	**-**	**124132**			

Source: Department of Agriculture, Goalpara

2.3 Irrigation Based Classification

Table 2.4: Irrigation based classification

	Block	Gross Irrigated Area	Net Irrigated Area	Partially Irrigated/ Protective Irrigation	Un-Irrigated or Totally Rainfed
1	Rangjuli	4376	2909	-	18462
2	matia	7086	3054	-	17300
3	Balijana	3250	1866	-	15821
4	Kharmuja	7587	4966	-	11787
5	Lakhipur	7186	5055	-	11899
6	Jaleswar	6397	4119	-	15228
7	Kuchdowa	4280	2935	-	10831
8	Krishnai	2681	1607	-	17179

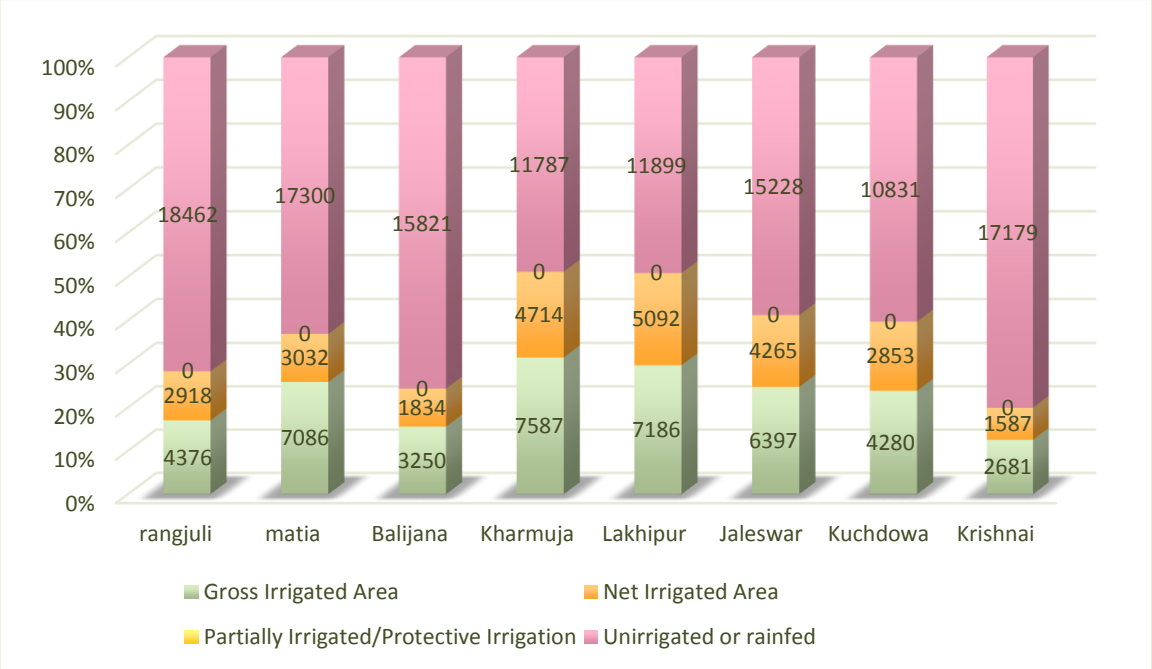

Figure 2.2: Block-wise Irrigation based classification

As discussed earlier, the district is primarily rainfed. Out of the gross cropped area of 1, 06,432 ha, the extent of irrigated land is 26295 ha, i.e. 24.70% of total cropped area. Considering the block-wise data, percentage of gross irrigated land to gross cropped area is maximum in Kharmuja block, followed by Matia block, i.e. 7% and 6% respectively.

A total of 66900 ha of area is under rainfed cultivation. The area under partial irrigation has been reported to be zero across all the blocks the district.

Chapter 3: District Water Availability

3.1 Status of Water Availability

Including all the water sources Goalpara district has an estimated water source availability of 392.9719 million cubic meters out of which 321.9719 mcm (or 82%) is surface water and the rest 71 mcm (18%) is ground water. Within surface water, the major sources is Lift irrigation/diversion works amounting to nearly 254.4 mcm (or 65%) of water availability followed by Canal Works accounting for 67.57 mcm (or 17%).

Table 3.1: Status of water availability in Goalpara

Sl.	Sources	Kharif		Rabi		Summer		Total	
		Area (Ha)	Volume (MCM)	Area (Ha)	Volume (MCM)	Area(Ha)	Volume (MCM)	Area (Ha)	Volume (MCM)
1	**Surface Irrigation**								
i)	Canal (Major & Medium irrigation)	-	33.779	-	20.28	-	13.512	-	67.57
ii)	Minor Irrigation tanks	-	-	-	-	-	-	-	-
iii)	Lift Irrigation/ Diversion	-	107.1	-	40.2	-	107.1	-	254.4
iv)	Various water bodies including Rain Water Harvesting.	-	-	-	-	-	-	-	-
v)	Treated Effluent Received form STP.	-	-	-	-	-	-	-	-
vi)	Untreated Effluent.	-	-	-	-	-	-	-	-
vii)	Perenial sources of water	-	-	-	-	-	-	-	-
2	**Ground Water ***								
(i)	Open Well	-	-	-	-	-	-	-	-
(ii)	Deep Well	-	-	-	-	-	-	-	-
(iii)	Medium Tube Well.	-	30	-	11	-	30	-	71
(iv)	Shallow Tube Wells	-	-	-	-	-	-	-	-

Source: District Irrigation Department

3.2 Status of Ground Water Availability

Hydrogeology

Hydrogeologically, the entire district has been grouped into two main units, viz.

(i) Unconsolidated formation, and (ii) Consolidated formation. Further subdivisions like Older and Younger alluvium have been made on the basis of

(a) Geomorphology including land use (b) lithology and soil characteristics (c) hydrogeological properties like yield characteristics etc.

The aerial distributions of the unconsolidated formations are rather discontinuous occurring in between the inselbergs, but are broadly bordering the Brahmaputra River. The Older alluvium has a major development in the northern part of the area around Dudhnai-Dhupdhara (25$_o$ 57′ and 91$_o$ 04′) and Krishnai –Dalgoma (26$_o$ 07′ and 90$_o$ 48′) tracts. However, the continuity of this unit is again broken by isolated inliers of Precambrian rocks.

A continuous stretch of Younger alluvium of about 100 sq. km. has developed near Ambari (26$_o$ 06′ and 90$_o$ 24′) in the northwestern part adjacent to Brahmaputra River. Isolated but broad patches have developed all along the Brahmaputra River particularly near south east of Goalpara and east of Dalgoma. It has also developed in patches as low-level terraces along the small river valleys in this tract. Consolidated formations including the isolated inselbergs cover approximately 250 sq. km, which are mainly occupied by forest and barren lands.

Occurrence

Ground water occurs under water table conditions in the near surface aquifers in Older alluvium within fine sand and sandy clay at a maximum depth of about 20 mbgl. It also occurs under semi-confined to confined conditions in the deeper aquifer tapped by medium/heavy duty deep tube wells. In Younger alluvium, ground water occurs under unconfined conditions and is extracted by means of open wells and small diameter tube wells for both domestic and irrigation purposes.

Ground Water Quality

The quality of water is measure of its chemical, physical, microbiological and radiological properties with respect to its purposed use. Chemical quality of ground water in the district is being monitored every year for temporal and spatial change. In general, the quality of ground water in the district is suitable for both the drinking and irrigation purposes except the high concentration of fluoride (F) in the aquifers of hard rock fracture zones. Almost all the constituents are within the 10 permissible limits of drinking water standards, except Iron (Fe), which exceeds the permissible limit at a few places.

Ground Water for Irrigation

The district is primarily an agrarian as 90% of the population depend their livelihood on agriculture. The principal agriculture produce are paddy, Jute, green and black gram and potato etc. However, the district is also known for its production of areca, nut and banana. There is a bumper production of paddy. This is perhaps due to large-scale distribution of STWs along with diesel water pump sets by the Agriculture Department in the district.

Table 3.2: Irrigation potential Created and Actual Area Utilized under Goalpara District

Sl No	Name of Irrigation Project	Targeted Area(ha)	Actual Area Utilized(Ha)
1	Kuruabhasa D.T.W	60	0
2	Garoimari D.T.W	60	0
3	Sizukona L.I.S	150	0
4	Ghagua F.I.S	985	212
5	Ambari D.T.W	120	80
6	Garobhatkhowa D.T.W	30	20
7	Mulalijhar D.T.W	30	30
8	Katilatari D.T.W	70	30
9	Sidlibeel L.I.S	70	34
10	Dalgoma Kadamtola D.T.W	120	40
11	Bohoti L.I.S	380	100
12	Dandalama F.I.S	100	70
13	Kharubhaj DTW	30	0
14	Thekasu F.I.S	250	180
15	Deosila F.I.S Dhanubhanga	555	360
16	Old private S.T.W & CIP-1578	5367	3070
17	Pasmaphaf C.I.P-796	1194	796
18	LLP-GKY, MLA Fund and P.M's programme etc. 692	1038	692
19	ARIASP-3202	6741	4804
20	NABARD-4500	9000	6750
	TOTAL	26350	17268

Source: Ground Water Information Booklet, Goalpara District, Assam

District Agriculture Department, Goalpara district creates irrigation potential of 17,268 ha by 20 irrigation schemes (LIS, STWS and DTWS). But most of the schemes are inoperative due to lack of fund and constant

flood damage. Thus, it is observed that production assured irrigation from ground water source is required to be developed for which there is an ample scope from the resource point of view.

Ground Water Development

In view of ground water development, ground water resource potential is good enough in the district. Older alluvium comprises fine sand and sandy clay. Ground water occurs in semi-confined to confined conditions in the deeper aquifer and it may be extracted by construction of medium/heavy duty deep tube wells. In Younger alluvium, ground water can be extracted by means of open wells and small diameter tube wells for both domestic and irrigation purposes.

The estimated gross annual dynamic groundwater resource is 1319.85 mcm while a net ground water resource is 1187.87 mcm. The stage of development is 20%. Natural discharge during non-monsoon season is 131.99 mcm. Future provision for domestic and Industrial use is 32.65 mcm and for future irrigation use, it is 933.17 mcm.

Thus, there is much scope for the development of ground water by way of constructing ground water abstraction structures in a planned way for profitable ground water development.

Water Conservation and Artificial Recharge

Method of making ground water abstraction structure, type, design, depth of wells, number and spacing between two wells depends on size of aquifer material, depth range & hydraulic parameters of aquifer zones, which differ from place to place. As per earlier reports and present study, following design criteria is recommended.

Shallow Domestic Wells

Open wells and filter point wells are feasible in all area of the district. In unconsolidated sediments, ring well may be constructed by excavating down to the saturated horizon. Cement or earthen rings of 0.80 to 1.20 dia may be placed one above another with weep holes in the bottom rings and these are likely to hold sufficient quantity of water. Depth may range from 9 to 22 m depending upon the topographic elevation. Expected discharge will be 4 to 6 cubic meters per day.

In the iron contaminated areas of the district, it is important to construct Filter Point Wells with a total depth of 10 to 25 m bgl by providing galvanized iron or mild steel pipe and at bottom slotted pipe against aquifer zone either made from bamboo or MS pipe or P.V.C pipe which is suitable. Bamboo as pipe and screen are very much within the reach of small and marginal farmers, as bamboo is locally available in the district. This type of well will be low cost and long lasting. Expected discharge will be 10 to 20 cubic meters per day.

Deep Tube Well for Irrigation Purpose

Goalpara area is feasible for construction of the deep tube wells for irrigation purposes by tapping the granular zones occurring beyond 35-50 m bgl. Housing pipe should be large enough to accommodate the pump. Based on the static water level, maximum draw down and seasonal fluctuation, length of housing pipe may range from 30 to 40 m bgl. Along foothill region of inselbergs and towards southeastern part bordering Meghalaya State, it may range from 20 to 30 m bgl. For avoiding corrosion and clogging of well screen, the entrance velocity should be less than 2 cm/sec.

Recommendations

The hydrogeological condition and ground water resource in the district indicates the scope for the development of ground water by constructing ground water abstraction structures in a planned way for profitable development stage.

In view of Ground water quality, there is no major change in the chemical quality of water for the last ten years except the recent report of high content of fluoride in ground water in a few exploratory wells of the district. Presence of fluoride content in the fracture zone at the exploratory well of Darangiri is 7.6 mg/l, which is more than the permissible limit of Indian water Standard for drinking purposes.

Keeping in view this updated picture of chemical quality scenario of ground water in the district, it is advisable to test the potability of ground water before using it for drinking and cooking purpose. A long term environmental planning is also essential to blunt the danger from such pollution problems. The status of chemical quality of ground water regime and its utilized formulation for future ground water development programme and drinking water management strategy must assume a greater significance.

Iron treatment plants need to be installed with PHED water supply station under the regular monitoring of the ground water of the existing water supply stations. Proper rehabilitation of sick wells in the district is to be carried out so as to mitigate water scarcity as reported from different village.

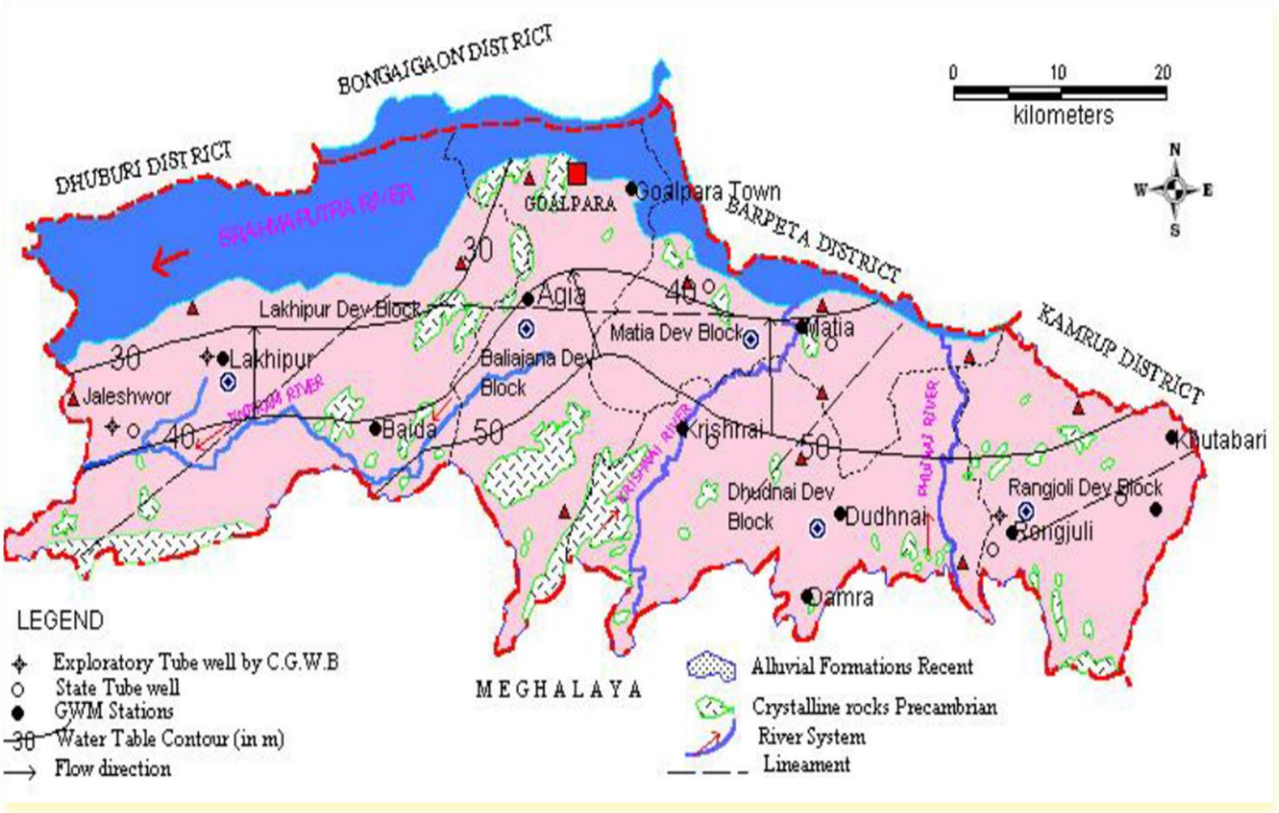

Figure 3.1: Map showing Hydogeological setup of Goalpara district

Source: Central Ground Water Board

3.3 Status of Command Area

Table 3.3: Status of Command Area

Block	**Name of Gram Panchayat**	**Information on Canal Command**
		Total Area(ha)
Krishnai	Zira	3
	Tukura Barmohora	50
	Molandubi	0
	Fofonga	0
	Bhelakhamar	250
	Dhaigaon	60
	Krishnai	0
	Salpara	0
	Measelkhowa	150
	Sub Total	**510**
Kuchdowa	Damra	374
	Dudhnai	24

	Puronibhita	675
	Kuchdhuwa	0
	Lela	424
	Darranggiri	420
	Baguankathalbari	0
	Majakhali	25
	Sub Total	**1942**
Jaleswar	Gossaidubi	22
	Guriadhap	114
	Haguripara	0
	Hasduba	0
	Jaleswar	0
	Katarihara	0
	Kathuri	0
	khalisavita	194
	Monkola Shialdhara	0
	Rajmita	0
	Takimari	0
	Gaurnagar	0
	Simlabari	655
	Sub Total	**985**
Lakhipur	Pukhuripara	50
	Dodan	0
	Dhamor	100
	Bapurvita	600
	Jayramkuchi	60
	Faringapara	0
	Rowkhowa	0
	Aolatoli	0
	Kalsabhanga	0
	Chunari	0
	Saktola	0
	Sub Total	**810**
Kharmuja	Khankhowa	0

	Boguan	0
	Bashbari	0
	Ambari	0
	Kharmuza	0
	Roumari	0
	Ramharichar	0
	Markula	70
	Nolonga	0
	Sub Total	**70**
Balijana	Agia	100
	Baladmari	0
	Balijana	0
	Bardamal	0
	Bodahapur	213
	Dariduri	0
	Dwarka	100
	Kalpani Chandamari	0
	Kalyanpur	0
	Kumri	0
	Sub Total	**413**
Matia	Karipara	0
	Matia	0
	Sidhabari	0
	Dolgoma	0
	Bakaitari	0
	Buduchar	0
	Nobogota Simlitola	0
	Sri Surjaygiri	0
	Mornoi	0
	Harimura	523
	Baladmari Cher	0
	Sub Total	**523**

Rangjuli	Simlitola	0
	Kahibari	175
	Rongjuli	160
	Tiplai	0
	Dhanubhanga	0
	Ambari	555
	Dhupdhara	0
	Khutabari	0
	Kothakuthi	320
	Sub Total	**1210**
	Grand Total	**6463**

Source: Agriculture Department, Goalpara

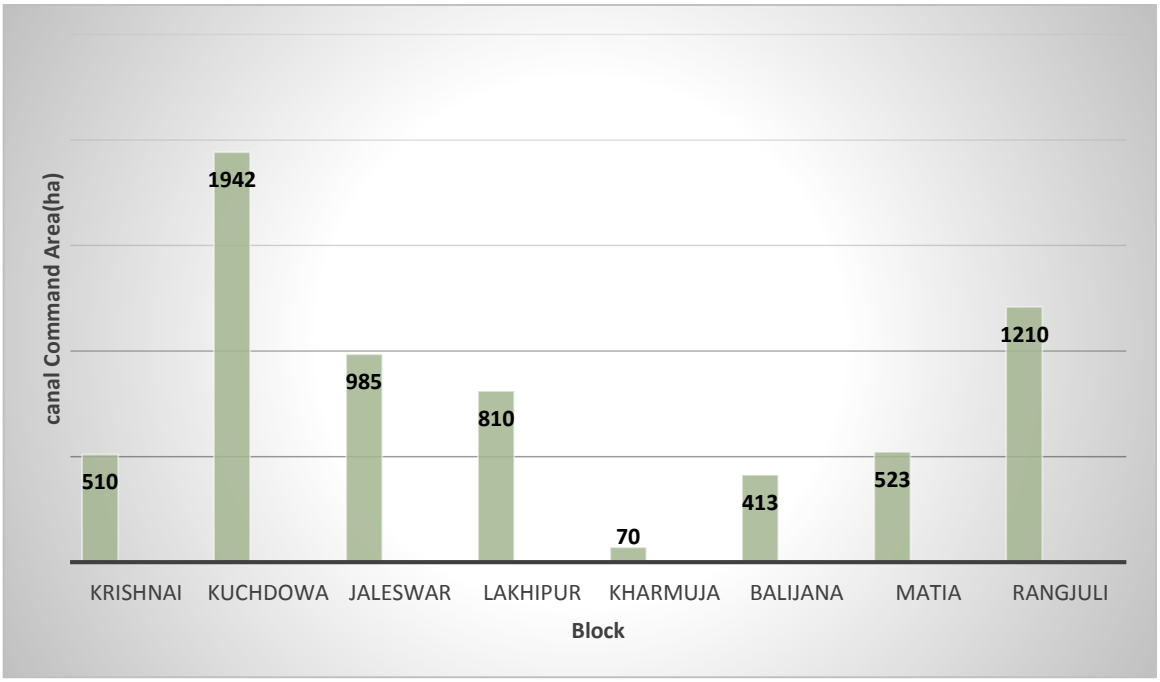

Figure 3.2: Block-wise canal command area in the district

The total canal command area is 6463 hectares in Goalpara district with 30% of it being in Kuchdowa block followed by Rangjuli with 18.72%. There was no data available for developed and undeveloped area in the canal command areas in any of the blocks.

3.4 Existing Type of Irrigation

Table 3.4: Existing type of Irrigation in Goalpara district

Name of Tehsil	Surface Irrigation(1)		Ground Water (2)			*WH (3)*	TEDS	Water Extraction Devices/ Lift			Total	
	Canal Based	T/P/R	Tube Wells	Open Wells	Bore Wells			Elec. Pump (4)	Diesel Pumps (5)	Others (6)	Irr. Sources (1+2+3)	WEU (4+5+6)
Matia	1097	-	675	-	-	-	-	1498	-	-	1772	1498
Balijana	563	-	210	-	-	-	-	397	-	-	773	397
Kharmuza	70	-	505	-	-	-	-	505	-	-	575	505
Krishnai	510	-	630	-	-	-	-	1024	-	-	1140	1024
Lakhipur	1010	-	30	-	-	-	-	283	-	-	1040	283
Jaleswar	1745	-	220	-	-	-	-	1675	-	-	1965	1675
Kuchdowa	2246	-	0	-	-	-	-	899	-	-	2246	899
Rongjuli	1150	-	390	-	-	-	-	390	-	-	1540	390

Source: Agriculture Department, Goalpara

As informed by District Agriculture Department, a total of 79 irrigation sources are operating in the district. Kuchdowa block has maximum command area under irrigation sources, i.e.2246 hectares out of 11051 hectares (20%). After Kuchdowa, Jaleswar and Matia have greater command area under irrigation sources. In Jaleswar, there are 11 irrigation sources with command area of 1965 ha while in Matia there are 14 irrigation sources with 1772 hectares of command area. Kharmuza is the block with least number of irrigation sources. In Kharmuza, there are only 12 irrigation sources with total command area of 575 ha.

Under surface irrigation, a total of 35 canal based irrigation sources exist with command area of 8391 ha. A total of 44 tube wells are operating in the district, with Matia block having the maximum number of tube-wells with 10 and command area of 675 ha.

In case of water extraction devices, there are 60 electricity pumps operating in district with a command area of 6671 ha. Out of total command area of 6671 ha under electricity pumps, Jaleswar block has 1675 ha (25%).

Chapter 4: Water Requirement/Demand

4.1 Domestic Water Demand

This includes the water requirement in private buildings for drinking, cooking, bathing, gardening, sanitary purposes etc. The amount of domestic water consumption per person shall vary according to the living conditions. The requirement of water depends on a number of factors like climate, culture, working conditions, physiology, level of development, etc.

As per the Bureau of Indian Standards, a minimum water supply of 200 litres per capita per day (lpcd) should be provided for domestic consumption in cities with full flushing systems. It also mentions that the amount of water supply may be reduced to 135 lpcd for the LIG and the economically weaker sections (EWS) of the society and in small towns. The total domestic consumption generally amounts to 55 to 60% of the total water consumption. The break-up of 135 litres/day/person may be approximately taken as shown in table 4.1.

Table 4.1: Average Domestic water consumption in an Indian city

Use	Consumption in litres/day/person
Drinking	5
Cooking	5
Bathing	55
Washing of clothes	20
Washing of utensils	10
Washing and cleaning of houses and residences	10
Flushing of latrines etc.	30
Total	**135**

Figure 4.1: Use of water

The decadal growth rate for Goalpara district is 22.64% as per Census, 2011. The projected population in 2020 is worked out assuming the last decadal growth and annual growth rate of 2.264% is used to apply for the period 2011-2020 (9 years). Current population (in 2016) has been calculated by assuming a growth rate of 11.32% (2.264% × 5 Years) over a period of five years (from 2011-2016). Projected population has been calculated in similar way by assuming a growth rate of 9.056% (2.264% × 4 Years) over the period of four years (from 2016-2020).

Table 4.2: Domestic Water Demand

Blocks	2011 Population	Population in 2016	Present Water Requirement 2016 (MCM)	Projected Population in 2020	Annual Water Requirement in 2020 (MCM)
Balijana	11,60,55	1,29,192	5.719	1,40,892	6.942
Kharmuza	97,759	1,08,825	4.817	1,18,681	5.848
Lakhipur	1,11,871	1,24,535	5.512	1,35,813	6.692
Jaleswar	1,52,077	1,69,292	7.494	1,84,623	9.097
Matia	1,42,733	1,58,890	7.033	1,73,279	8.538
Rangjuli	1,12,922	1,25,705	5.564	1,37,089	6.755
Kuchdowa	90,909	1,01,200	4.480	1,10,365	5.438
Krishnai	1,14,794	1,27,789	5.656	1,39,361	6.867
TOTAL			46.275		56.179

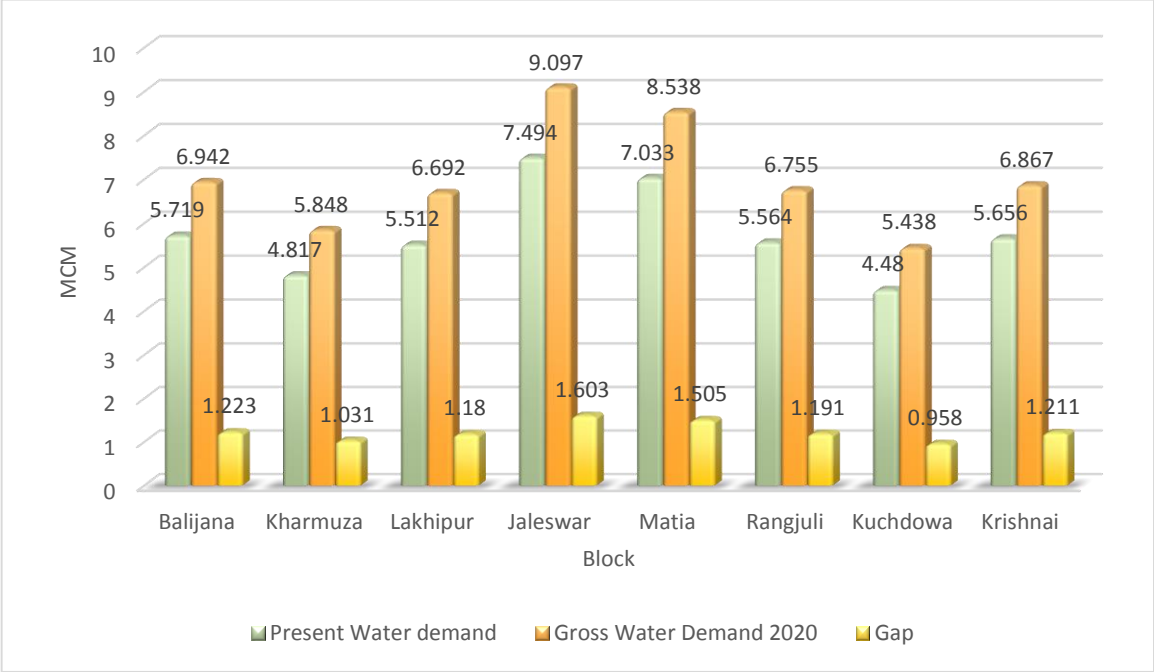

Figure 4.2: Domestic water demand and gap

4.2 Crop Water Requirement

Cereals are cultivated on major part of the gross cropped area in the district. The crops used for calculation of crop water requirement along with their respective assumptions are as under:

Table 4.3: Assumptions on water requirement for major crops

Crop	**Water requirement (m per ha.)**
Kharif rice	1
Summer rice	2
Autumn Rice/upland rice	0.55
Mustard	0.275
Jute	0.495
Sugarcane	2.25

Source: KVK

Goalpara district has nearly 28% of the cropped area as irrigated and the rest under rainfed conditions. Under irrigated conditions paddy and mustard are mainly grown in the district and under rainfed conditions also mainly paddy and mustard along with cash crops are grown.

With the provision of irrigation facilities farmers may bring the existing sown area under rainfed conditions into irrigation along with bringing in the fallow lands and culturable waste lands under cultivation and may also shift the cropping pattern.

While conversion of the present rainfed area into irrigated area is being taken into account for estimating the demand for water for raising crops, other factors such as changes in cropping pattern and additional area being brought into cultivation are not being considered. Inclusion of the latter may increase the crop water demand above what is estimated in the table.

Table 4.4: water requirement in rainfed areas and irrigated areas

Rice	**Rainfed Area(ha)**	**Water Requirement(MCM)**	**Irrigated(ha)**	**Water Requirement(MCM)**
Autumn	8062	44.341	-	
Winter	50772	507.72	-	
Summer	-		25434	508.68
Oil seeds				
Rape/Mustard	5850	16.0875	1941	5.33775
Castor	-		-	
Nizer	-		-	
Linseed	-		-	
Sesamum	-		-	
Cash crops				
Jute	5233		-	25.90335
Mesta	343		-	1.69785
Sugarcane	247		-	5.5575
Total	-	**568.1485**	-	**547.17645**

Source: Department of Agriculture and based on computation

Providing irrigation facilities to the crops with the existing crop pattern will need nearly 552.061 mcm for rice, 16.0875 mcm for rape/mustard seed area, 25.90335 mcm for jute, 5.5575 mcm for sugarcane.

Table 4.5: Crop water requirement in Goalpara

District	**Area sown (Ha)**	**Irrigated area (ha)**	**Crop Water Demand (MCM)**	**Water Potential Required (MCM)**	**Existing Water Potential (MCM)**	**Water Potential to be created (MCM)**
Goalpara	97882	27375	1115.32495	568.1485	571.17645	568.1485

Source: Based on computation

Existing water potential and water potential to be created: The existing water potential is the extent of area already under irrigation irrespective of the source and type of irrigation. Water potential required has been derived from water required by crops cultivated under rainfed conditions. Therefore, the existing water potential represents the water requirement of crops cultivated in irrigated areas. |As can be seen the existing water potential is only 51% of the total demand leaving 49% of the crop water demand unmet which needs to be created in the district.

It can be concluded from the table that a total water potential of 568.1485 MCM is to be created in the district to fulfil the requirement of crops.

4.3 Livestock Water Requirement

As per the livestock census 2012, livestock population in Assam has grown at a rate of 10.77%. For the purpose of calculation of the growth rates, livestock census of 2012 and 2007 are considered. The growth rates for Assam (2007-2012) is used as growth rates for livestock in the district. These are as follows:

Table 4.6: Growth rates for livestock in Assam in 2007-12

	Growth rate
Poultry	-6.35%
Cattle	2.45%
Sheep	46.43%
Goat	42.81%
Pigs	-18.22%
Ducks	-6.35%

Source: Livestock Census, 2012

The annual growth rates are then used from the data above to arrive at the final figures.

The water consumption for animals is used as per the following:

Table 4.7: Water requirement range and daily water use for livestock

Water Consumptions by Animals/ Birds			
S.No.	**Livestock Category**	**Water Requirement Range**	**Average water Use L/day**
1	Poultry	0.l6-0.24	0.20
2	Small Animals	13-20	16.50
3	Large Animals	39-59	49
Source: Adapted from Nutrient Requirements of poultry, sheep, and cattle. (9th edition). Washington D.C.: National Research Council, 1994,			

Table 4.8: Livestock Water Demand

	Population in 2016	Present water demand(MCM)	Water Demand in 2020(MCM)	Existing water Potential(MCM)	Water potential to be created(MCM)
Poultry (No.)	9,49,695	0.069327735	0.065805886	0.069327735	-0.003521849
Ducks (No.)	1,15,551	0.008435223	0.008006714	0.008435223	-0.000428509
Pigs (Nos.)	60,898	0.366758205	0.312554276	0.366758205	-0.054203929
Goats (Nos.)	1,33,222	0.802329495	1.0771113	0.802329495	0.274781805
Sheep (Nos.)	29,095	0.175224638	0.240310077	0.175224638	0.065085439
Indigenous Cow (Nos.)	1,59,236	2.84793586	2.903755403	2.84793586	0.055819543
Hybrid Cow (Nos.)	3935	0.070377475	0.071756874	0.070377475	0.001379399
In Descriptive Buffalo (Nos.)	8315	0.148713775	0.151628565	0.148713775	0.00291479
Hybrid Buffalo (Nos.)	Nil	0	0	0	0
Milch cow(hybrid)	1500	0.0268275	0.027353319	0.0268275	0.000525819
Milch cow(indigeneous)	62172	1.11194622	1.133740366	1.11194622	0.021794146
Buffalo(milch)	838	0.01498763	0.015281388	0.01498763	0.000293758
Bull(draft)	3162	0.05655237	0.057660796	0.05655237	0.001108426
Buffalo(draft)	70772	1.26575722	1.290566062	1.26575722	0.024808842
TOTAL		**6.965173346**	**7.355531025**	**6.965173346**	**0.39035768**

Source: Based on computation *Calculated gross water demand for a year

Livestock water demand by 2020 & water potential to be created:

The total livestock water demand in 2016 is 6.96 million cubic meters and the same is being catered to at present by the households. However, by 2020, the livestock water demand may reach 7.35 million cubic meters resulting in an additional water potential requirement of 0.39 million cubic meters.

4.4 Industrial water Demand

Table 4.9: Industrial water demand

District	Water Demand (MCM)	Water Demand in 2020 (MCM)
Goalpara	0.67456	1.13789

Source: Based on assumptions made by DICC Goalpara.

4.5 Water Demand for Power Generation

Power is not generated in the district and hence, water requirement has been indicated to be zero. The power requirement of district is met through common grid system of the state.

4.6 Total Water Demand of the district for various sectors

Table 4.10: Total water demand of the district (present)

District	Demand from components (MCM)					Total
	Domestic	Crop	Livestock	Industrial	Power Generation	
Goalpara	46.275	1115.32495	6.965	0.67456	0	1168.64

Source: Based on computation

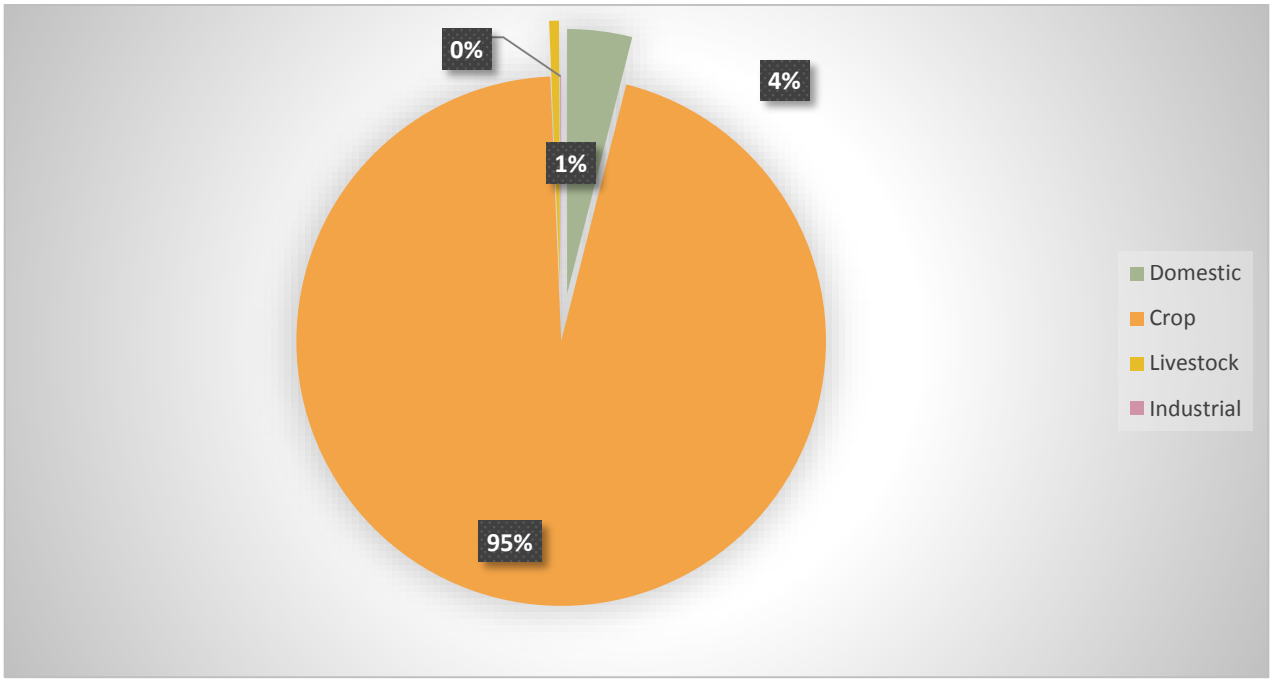

Figure 4.3: Present Water demand of the district

The present water demand of the district has been assessed to be 1168.4 MCM annually. Out of the total water demand 1115.32495 mcm (95 percent) is the requirement from crop production. Nearly 46.275 mcm is required for domestic drinking water requirement and another 6.965 mcm (or 5%) is required for livestock water requirement purpose. Industrial water requirement is very low with 0.67456 mcm and there is no water requirement for power generation.

Table 4.11: Total water demand of the district (projected for 2020)

District	Demand from components (MCM)					Total
	Domestic	Crop	Livestock	Industrial	Power	

					Generation	
Goalpara	56.179	1115.3249	7.355	1.13789	0	1179.99

Source: Based on computation

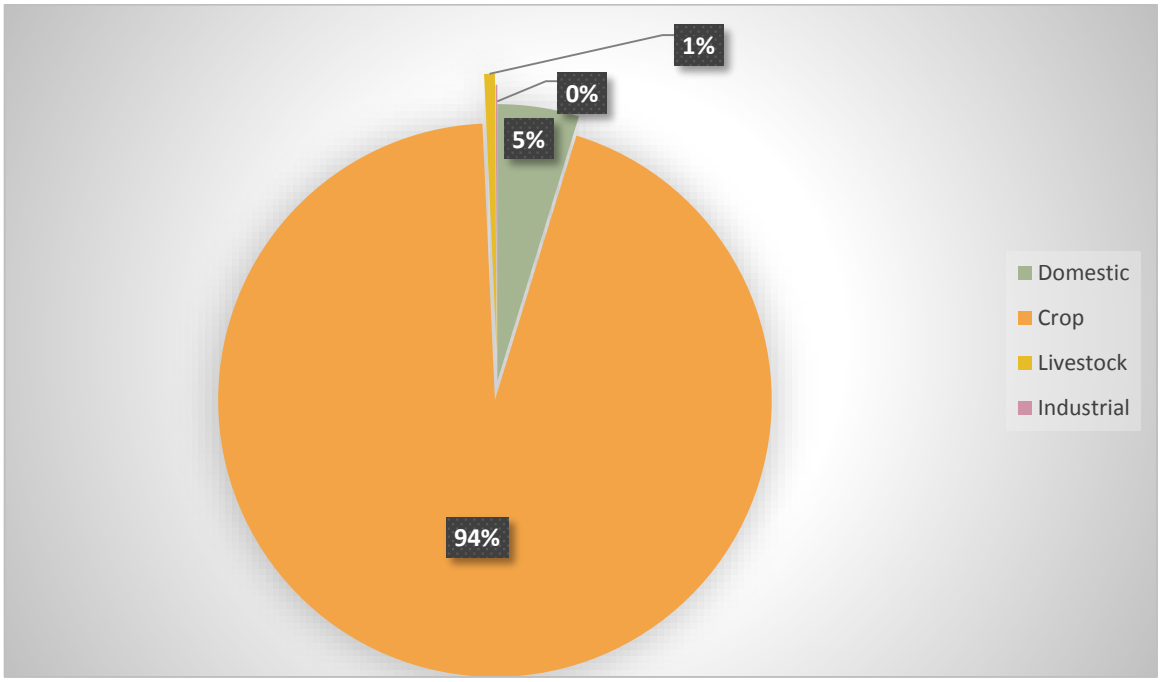

Figure 4.4: Projected water demand of the district in 2020

The projected water demand of the district has been assessed to be 1179.99 MCM annually. Out of the total water demand 1115.32495 mcm (95 percent) is the requirement from crop production. Nearly 56.179 mcm is required for domestic drinking water requirement and another 7.355 mcm (or 5%) is required for livestock water requirement purpose. Industrial water requirement is very low with 1.13789 mcm and there is no water requirement for power generation.

4.7 Water Budget

The water budget shows wide gaps between water availability and water demand in the district. While the availability at present is 329.9719 mcm, the present water demand is 1168.64 mcm giving rise to an unmet demand of close to 775.6681 mcm. If the existing water availability is continued the water gap is likely to increase further in future and as a result the unmet demand for water is likely to go up reaching 787.0181 mcm.

Table 4.12: Water Budget of Goalpara

District	Existing water availability (MCM)			Water Demand (MCM)		Water Gap (MCM)	
	Surface Water	Ground Water	Total	Present (2015)	Projected (2020)	Present (2015)	Projected (2020)

Goalpara	321.9719	71	392.9719	1168.64	1179.99	775.6681	787.0181

Note: Water gap is calculated as water demand minus existing water availability. A negative water gap means that excess water availability exists and a positive water gap means that existing water availability is short of demand.

The water budget analysis suggest that urgent efforts are required to meet the water requirements of the district as the gap is likely to increase in future. Utilizing the surface & ground water potential in the district and activities that promote ground water re-charge and soil moisture and water conservation etc. are proposed in the Strategic Action plan, 2016-20 that will address the challenge.

Chapter 5: Strategic Action Plan for Irrigation in District under PMKSY

The vision of the scheme PMKSY is to ensure access to some means of protective irrigation to all agricultural farms in the country, to increase water use efficiency by its 'per drop more crop' subcomponent, thus bringing much desired rural prosperity. The need of the hour is to have well managed watershed resources which not only enhances the ecological resource base of a rural economy but will also create sustainable livelihood opportunity.

At present, the schemes implemented by all the departments are broadly based and are required to be specific and location/ problem based. A systematic integrated approach having full participation of the users in the planning process is the need of the hour and extension facilitation should be inter-disciplinary. On the basis of methodology described above, a strategic plan for four years has been prepared starting from 2016-17 to 2019-20.

5.1 Component-wise plan of the district

The plan is prepared component wise also. Table 5.1 shows component wise plan for 4 years starting from 2016-17 to 2019-20. AIBP component has to be executed by Irrigation Department and Agriculture Engineering Department. Her Khet Ko Pani is to be executed by Irrigation and Agriculture Departments while Per Drop More Crop is to be also executed by Agriculture Department.Watershed component will be taken care of mainly by Soil Conservation department and also to a very minor extent by Agriculture Department. However, all the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. Figure shows the graphical representation of various components of PMKSY. It is observed that the total command area to be brought under PMKSY scheme is 92622.44hectares while the estimated fund requirement for the execution of PMKSY activities in the district is Rs.99670.86 lakhs or Rs. 996.70 crores. A point to note here is that the total command area of 92622.44 hectares is more than the unirrigated land in the district. This is due to the fact that many areas of land may be under more than one component of PMKSY.

Table 5.1: Component-wise command area and planned outlay in Goalpara

Component wise		
	Command Area	**Estimated Cost**
AIBP	18945.01	24167
Har Khet Ko Pani	52251.46	59613.64
Per Drop More Crop	5482.48	8014
Watershed	15943.49	7876.22
Total	**92622.44**	**99670.86**

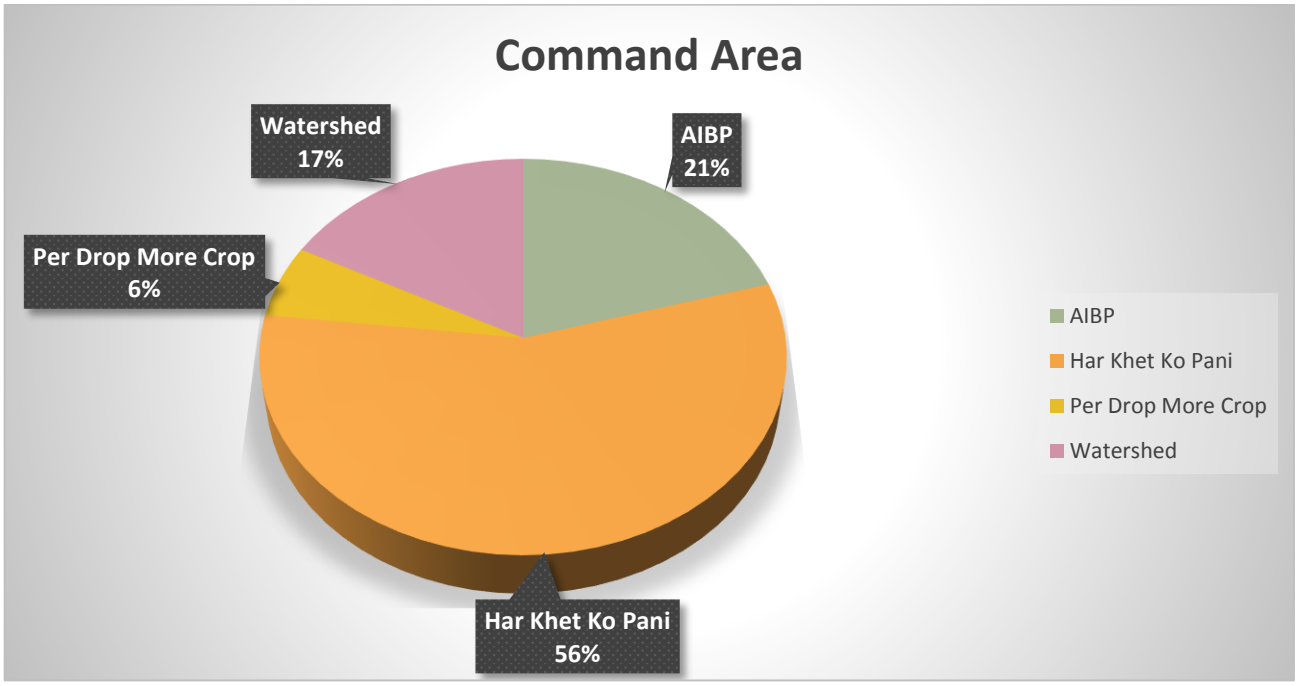

Figure 5.1: Component-wise command area under PMKSY in Goalpara

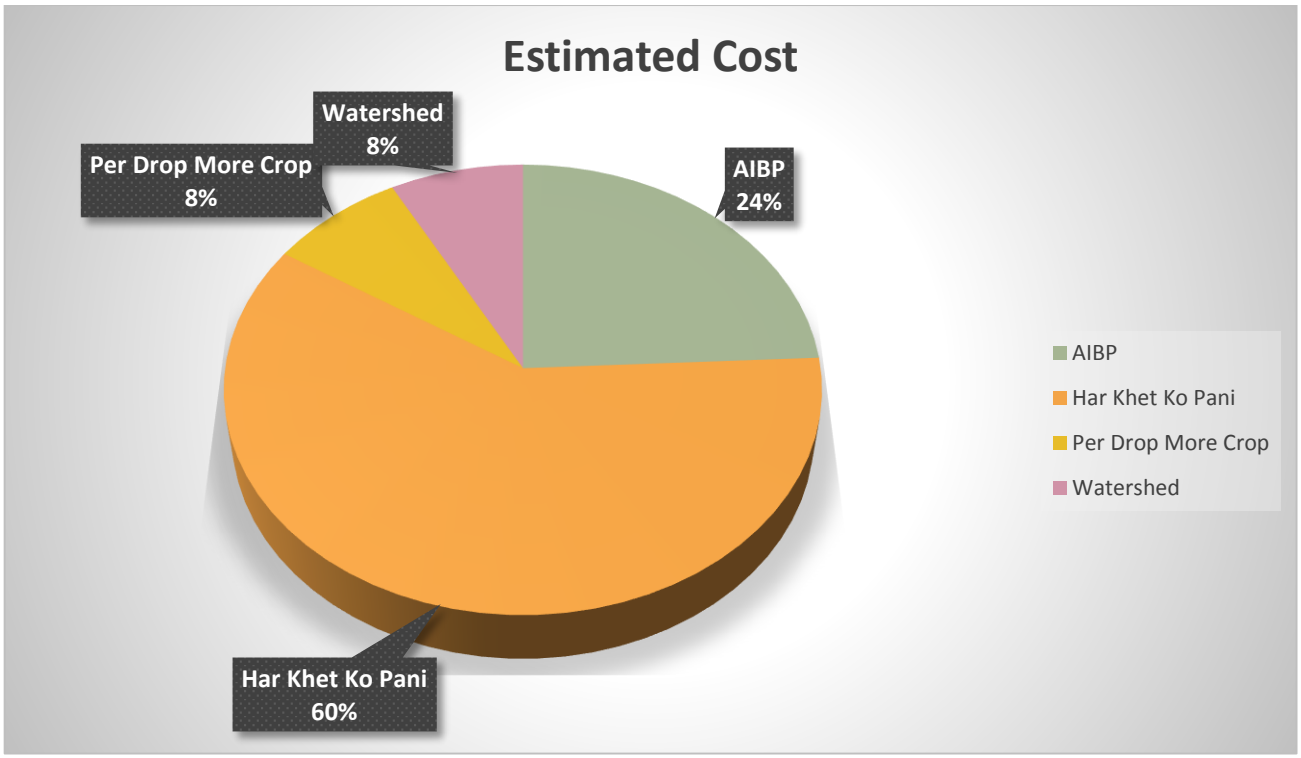

Figure 5.2:Component-wise estimated cost under PMKSY in Goalpara

In terms of percentage the figures in both pie-charts match. The area covered by a component and it's fund requirement is nearly proportional. For instance HKKP covers 56% of command area and requires 60% of funds. Similarly, AIBP covers 21% of command area and requires 24% of funds.

5.2 Block-wise Plan under PMKSY

Table 5.2:Block-wise command area and planned outlay

Sl. No	**Block**	**Total (Area in Ha)**	**Total (Cost in lakhs)**
1	Balijana	12008.16	14145.55
2	Kharmuja	7065	4761.88
3	Lakhipur	11551.61	12630.73
4	Jaleswar	9778.4	9245.43
5	Matia	12092.11	10012.65
6	Rangjuli	19562.86	24092.62
7	Kuchdowa	9199.8	11842
8	Krishnai	11364.5	12940
	TOTAL	**92622.44**	**99670.86**

Block-wise command area

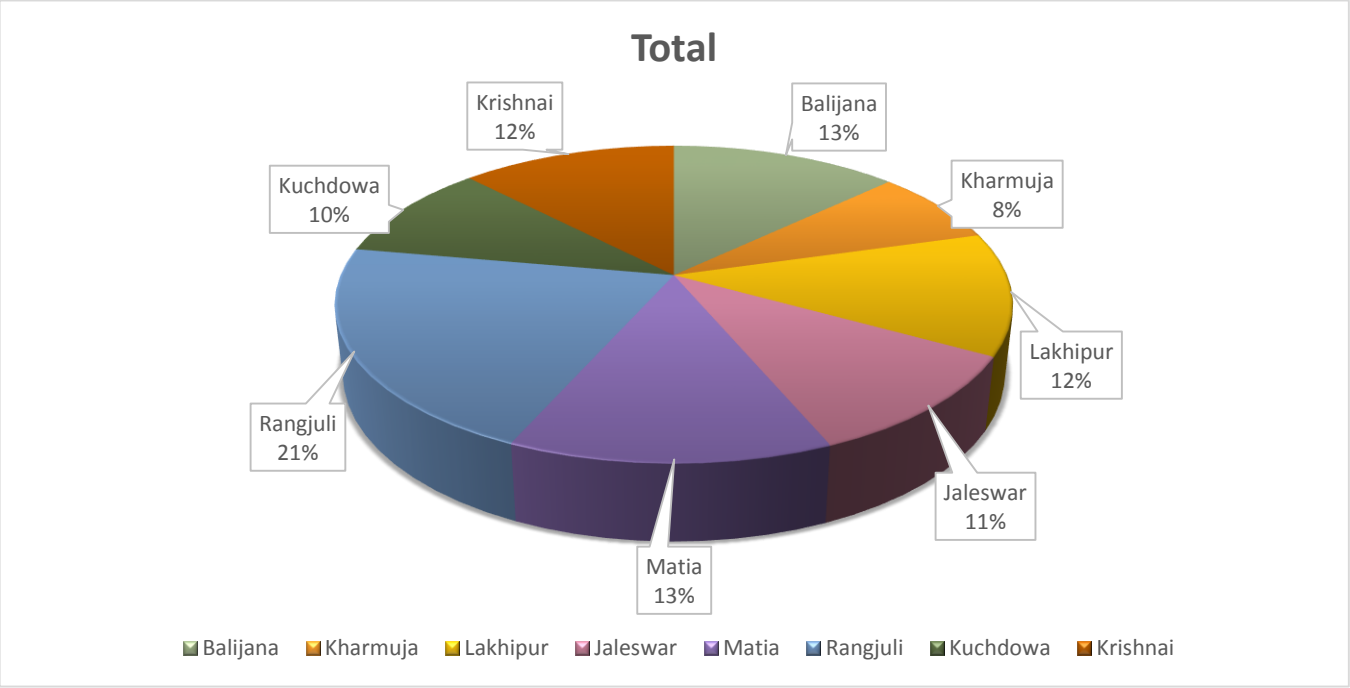

Figure 5.3: Block-wise command area under PMKSY in Goalpara

Block-wise Planned Outlay

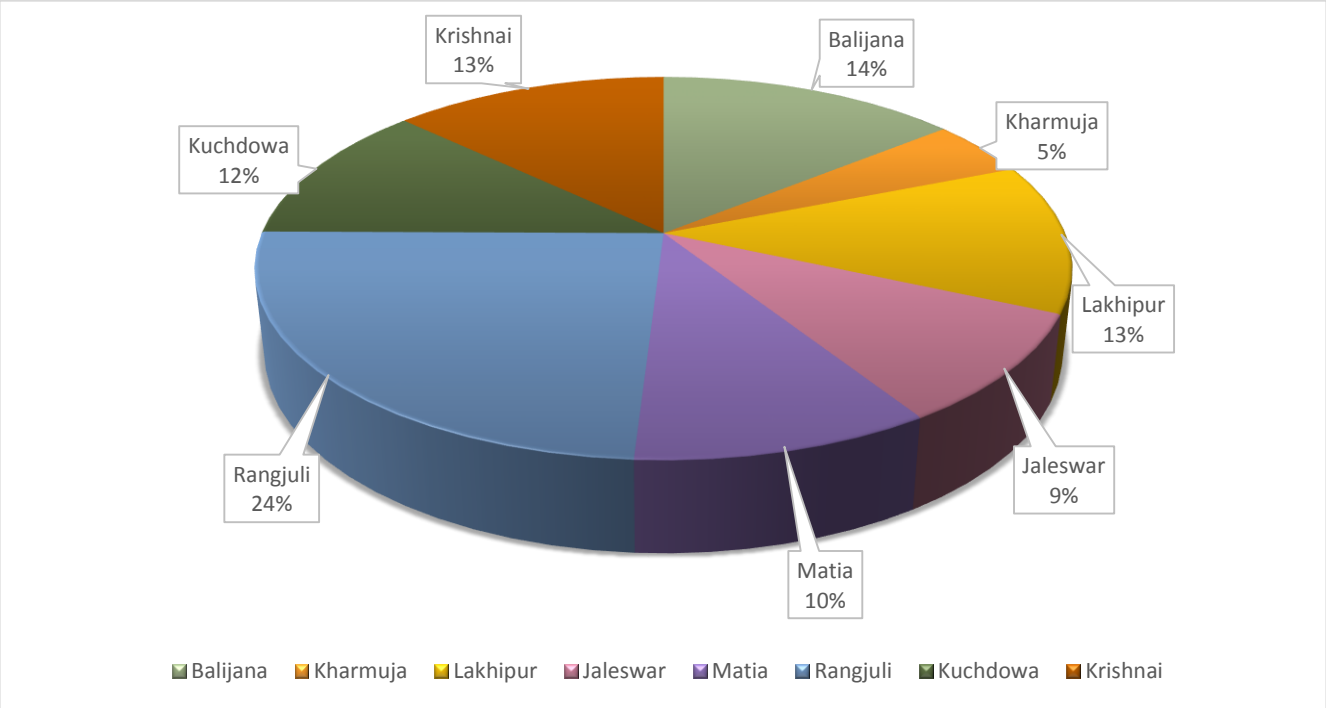

Figure 5.4: Block-wise planned outlay under PMKSY in Goalpara

Out of the total plan of 996.70 crores, the maximum share of 24% is pertaining to Rongjuli block followed by Balijana block which has a share of 14%. Krishnai and Lakhipur blocks have a share of 13% each in the planned outlay for the district. Kuchdowa, Matia and Jaleswar blocks have 12%, 10% and 9% respectively of the planned outlay. Kharmuja block has the least planned outlay with Rs.4761.88 lakhs (5%).

Block-wise, component-wise planned outlay under PMKSY

I. Balijana Block

Table 5.3: Command Area and Planned Outlay for Balijana block

Balijana	**AIBP**	**HKKP**	**PDMC**	**Watershed**	**Total**
Command Area (Ha)	2639.76	6746.05	970.86	1651.49	**12008.16**
Estimated Cost (rs. Lakhs)	2854	8547.8	1388.75	1355	**14145.55**

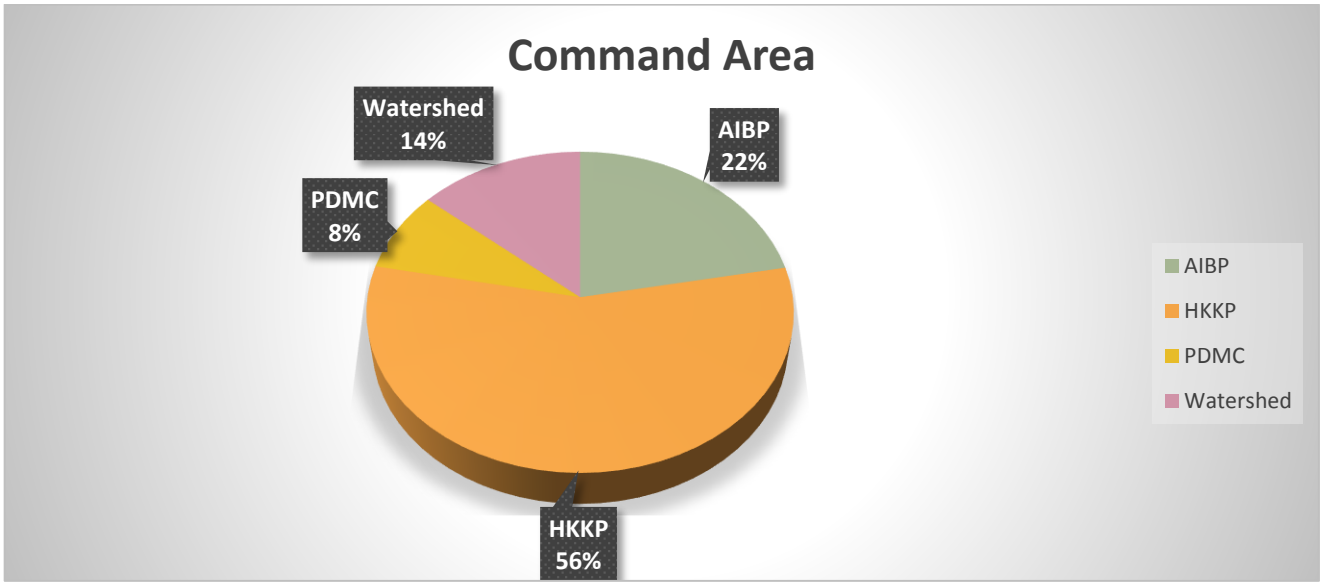

Figure 5.5: Share of components in command area in Balijana block

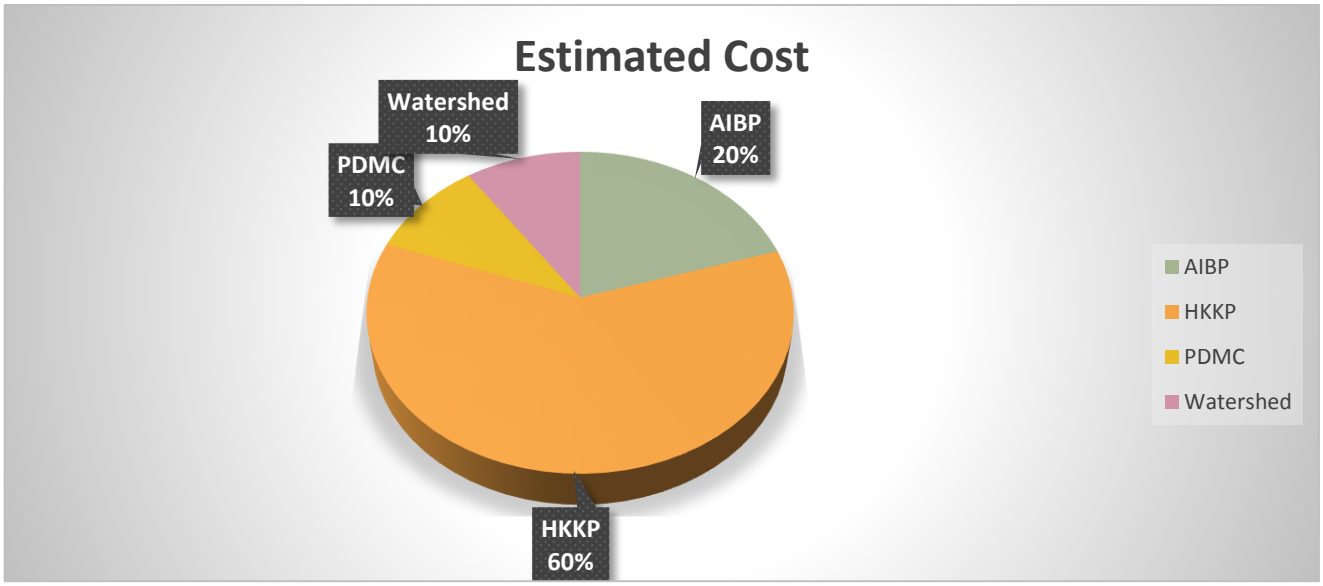

Figure 5.6: Share of components in planned outlay in Balijana block

In Balijana block, Har Khet Ko Pani component has the highest share with Rs. 8547.8 lakhs, followed by 2854 lakhs in AIBP component, 1388.75 lakhs in PDMC and 1355 lakhs in Watershed component. Per Drop More Crop for Balijana block includes planned outlay of 1200 lakhs by Horticulture Department and 13.75 lakhs for Sericulture on drip irrigation. The focus area on this block is more towards increasing the area under assured irrigation, which is reflected by the high share of planned expenditure in Har Khet Ko Pani and AIBP component.

II. Jaleswar Block

Table 5.4:Component-wise command area and planned outlay in Jaleswar block

Jaleswar	AIBP	HKKP	PDMC	Watershed	Total
Command Area	1082.6	7041.3	542	1112.5	**9778.4**
Estimated Cost	910	7052.59	813	469.84	**9245.43**

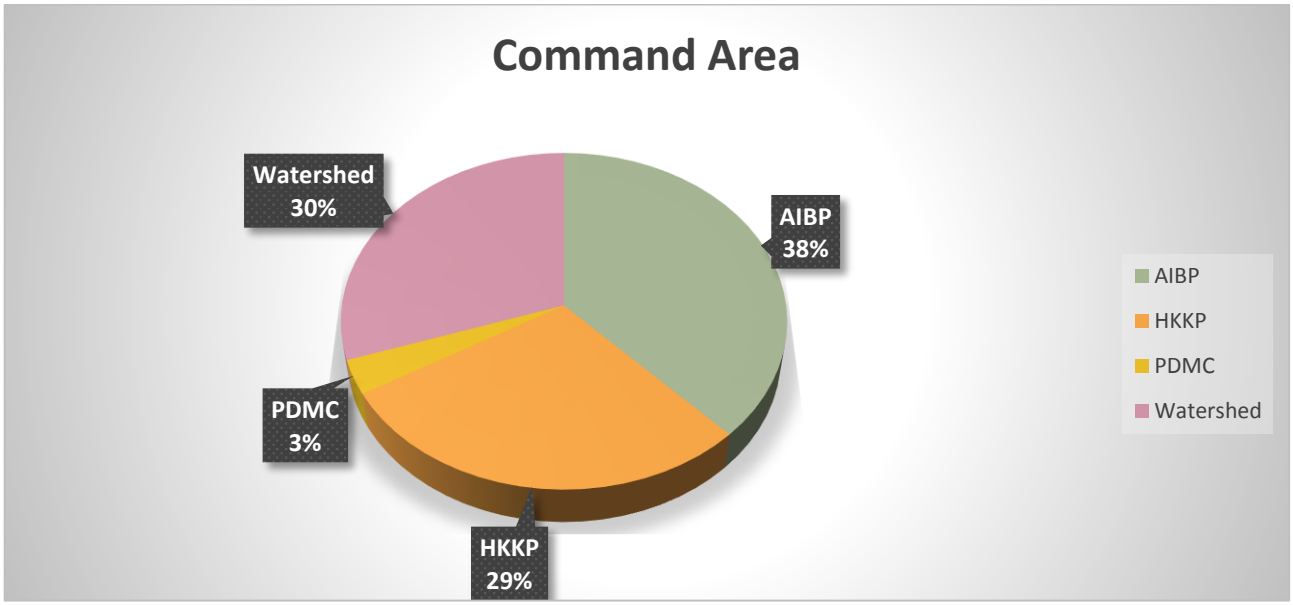

Figure 5.7: Component-wise share in command area in Jaleswar block

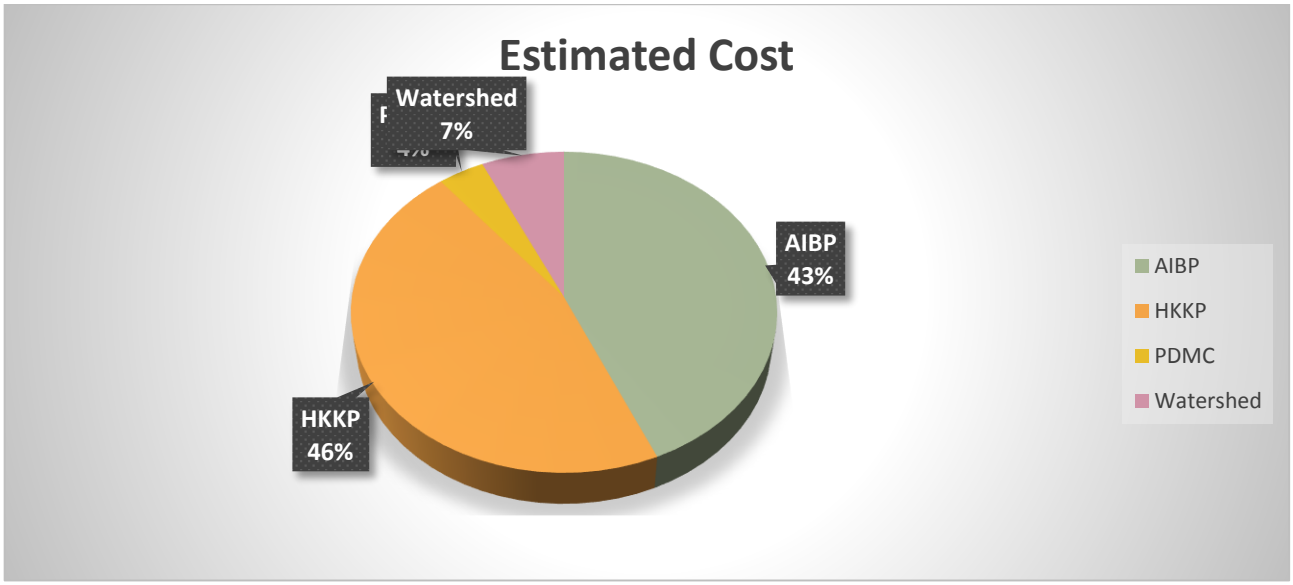

Figure 5.8: Component-wise share in planned outlay in Jaleswar block

In Jaleswar block HKKP component has the highest share with 76% followed by AIBP component with 10%. So, the main focus in Jaleswar block is clearly on increasing the area under the coverage of irrigation. Focus on drip irrigation through PDMC is at its early stage and only 5% of the planned outlay for the block is allotted for such activities through watershed. This is understandable given that greater coverage is given first priority here followed by increased efficiency. Moreover drip irrigation is mainly used for horticulture crops.

III. Kharmuja Block

Table 5.5: Command Area and Estimated Cost under PMKSY in Kharmuja block

Kharmuja	AIBP	HKKP	PDMC	Watershed	Total
Command Area	102	6204	100	659	7065
Estimated Cost	165	4151.25	150	295.63	4761.88

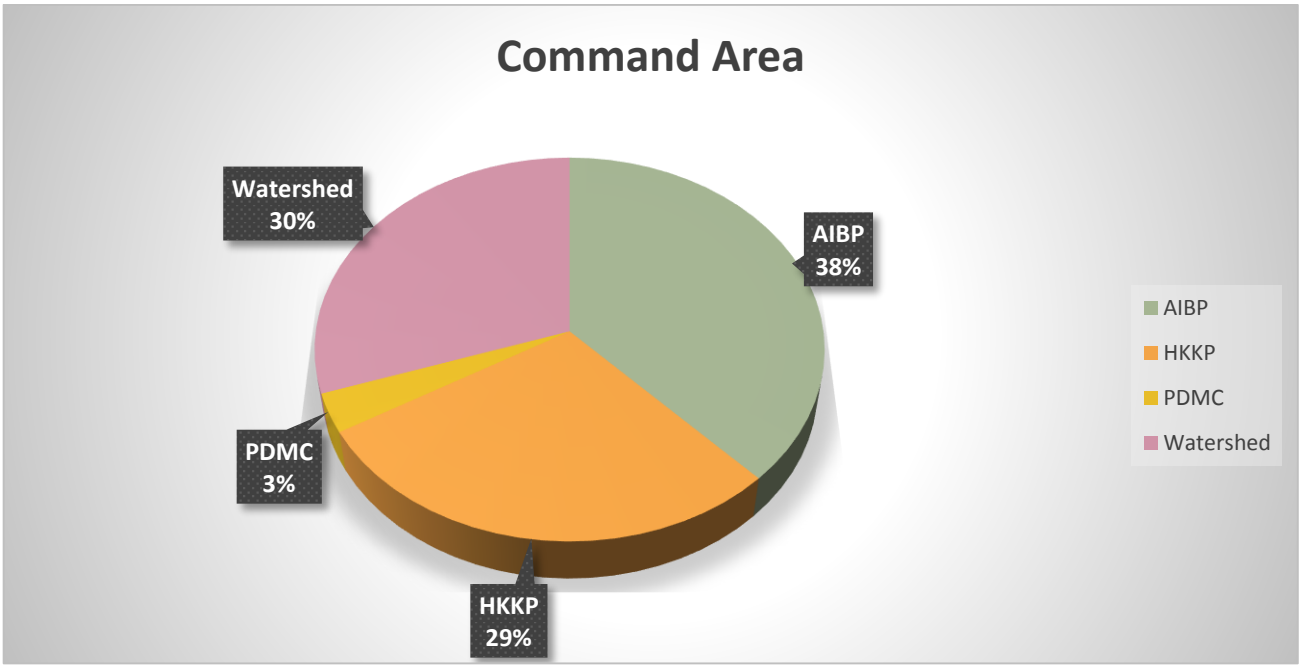

Figure 5.9: Component-wise share in command area in Kharmuja block

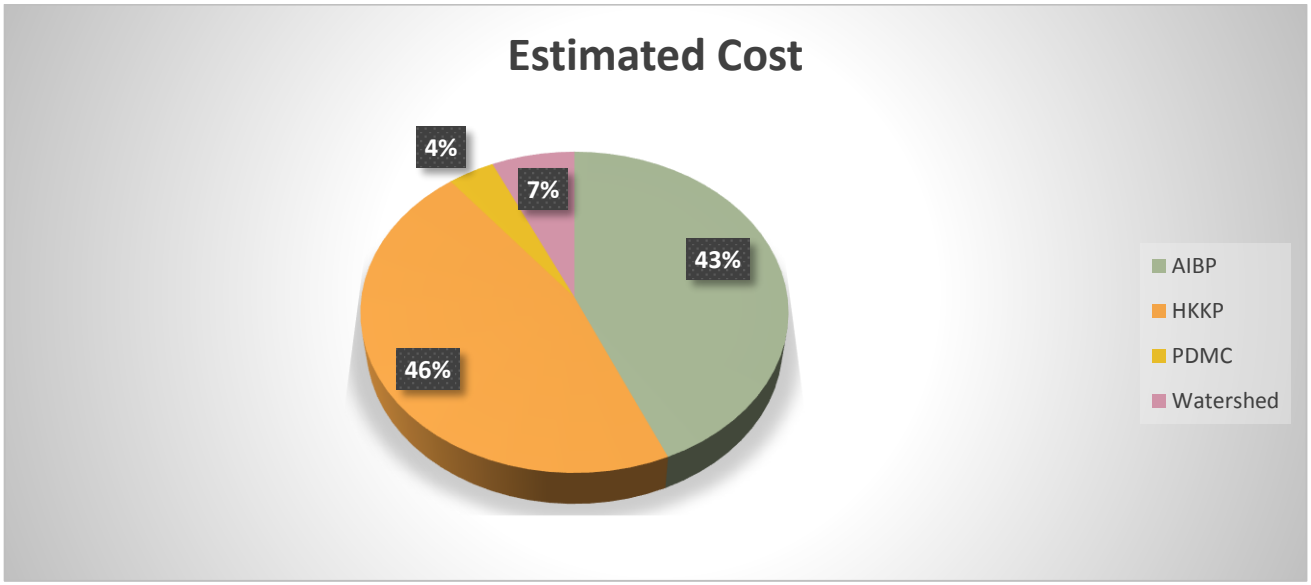

Figure 5.10: Component-wise share in planned outlay in Kharmuja block

In Kharmuja Block, planned outlay in AIBP component is 165 lakhs allotted to this which makes up just 4% of the planned outlay for the block. A huge majority of the outlay is to increase the area under irrigation through HKKP component (87%). Watershed component has 6% of the planned outlay followed by Per Drop More Crop with 3%.

IV. Krishnai Block

Table 5.6: Component-wise command area and planned outlay in Krishnai block

Krishnai	**AIBP**	**HKKP**	**PDMC**	**Watershed**	**Total**
Command Area	2609.3	7449.8	812	493.4	**11364.5**
Estimated Cost	2783.5	8589	1207.5	360	**12940**

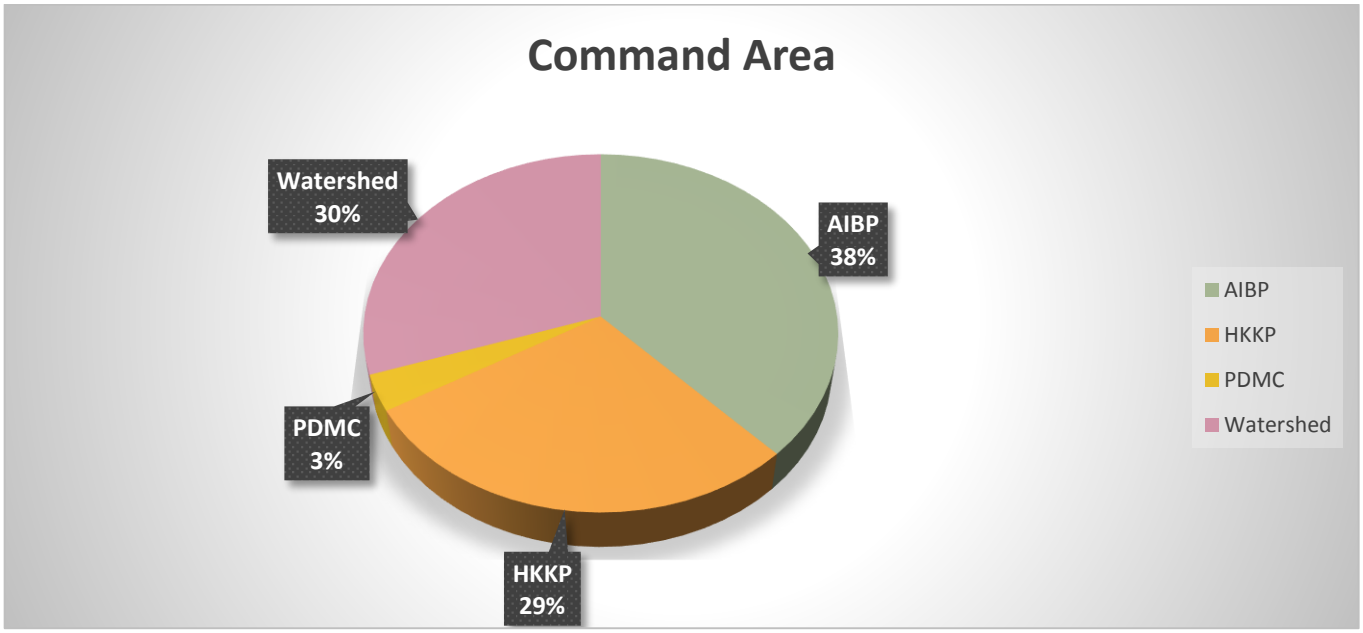

Figure 5.11: Component-wise share in command area in Krishnai block

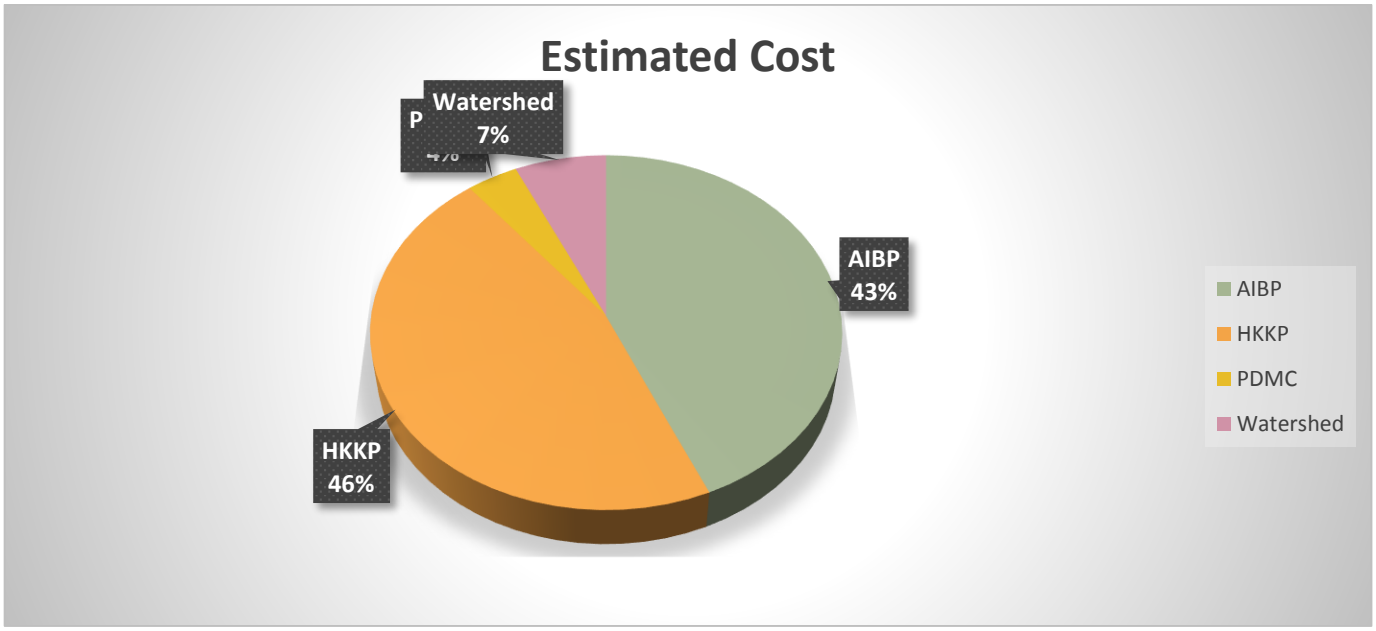

Figure 5.12: Component-wise share in planned outlay in Krishnai block

The maximum planned outlay in PMKSY for Krishnai block is in the HKKP component with 8589 lakhs (66%), followed by AIBP component (22%), Per Drop More Crop component (9%) and Watershed (3%) component.

V. Kuchdowa Block

Table 5.7: Component-wise command area and planned outlay in Kuchdowa block

Kuchdowa	AIBP	HKKP	PDMC	Watershed	Total
Command Area	2568.75	4644.63	1128.62	857.8	9199.8
Estimated Cost	3804.5	5730.5	1607	700	11842

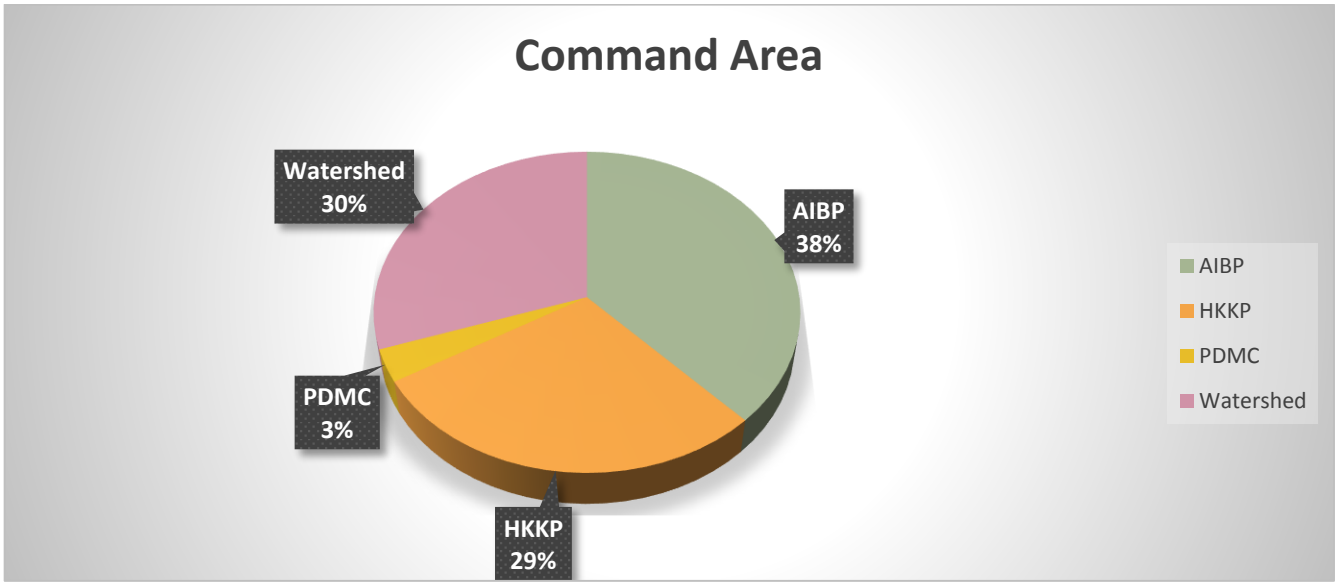

Figure 5.13: Component-wise share in command area in Kuchdowa block

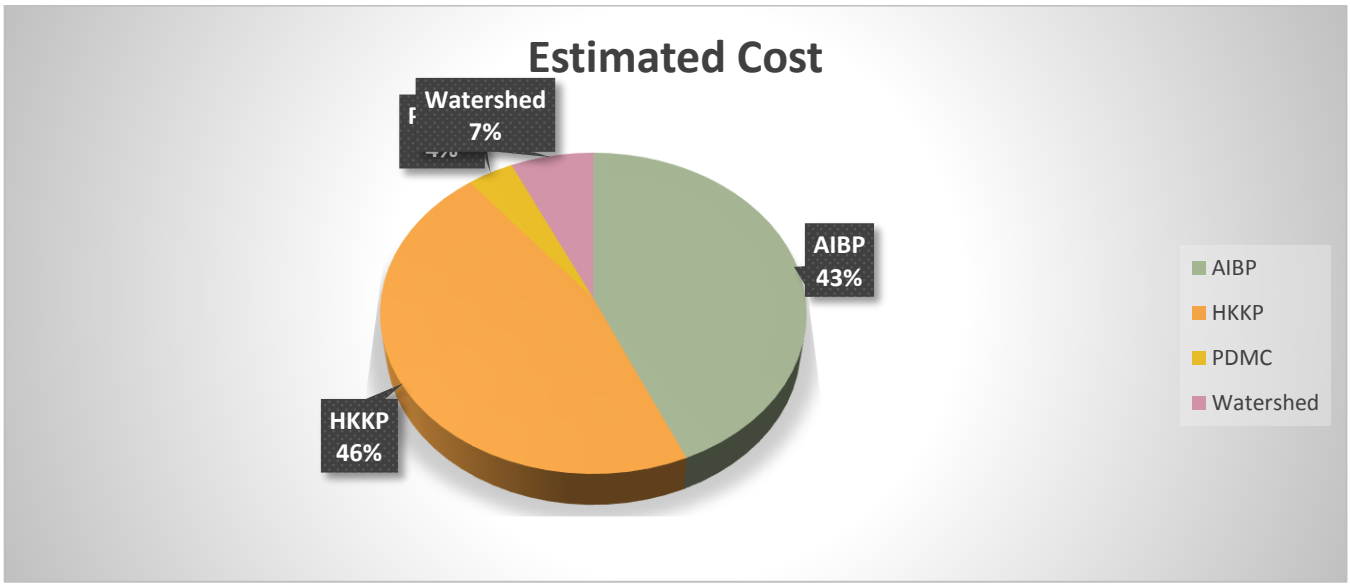

Figure 5.14: Component-wise share in planned outlay in Kuchdowa block

In Kuchdowa block, the planned outlay on Har Khet Ko Pani and AIBP is 5730.5 lakhs (48%) and 3804.5 lakhs (32%) respectively, followed by 1607 lakhs (14%) and 700 lakhs (6%) on Per Drop More Crop and watershed respectively.

VI. Lakhipur Block

Table 5.8:Component-wise command area and planned outlay in Lakhipur block

Lakhipur	AIBP	HKKP	PDMC	Watershed	Total
Command Area	1684	5666	557.5	3644.11	**11551.61**
Estimated Cost	2595	7131.5	830.5	2073.73	**12630.73**

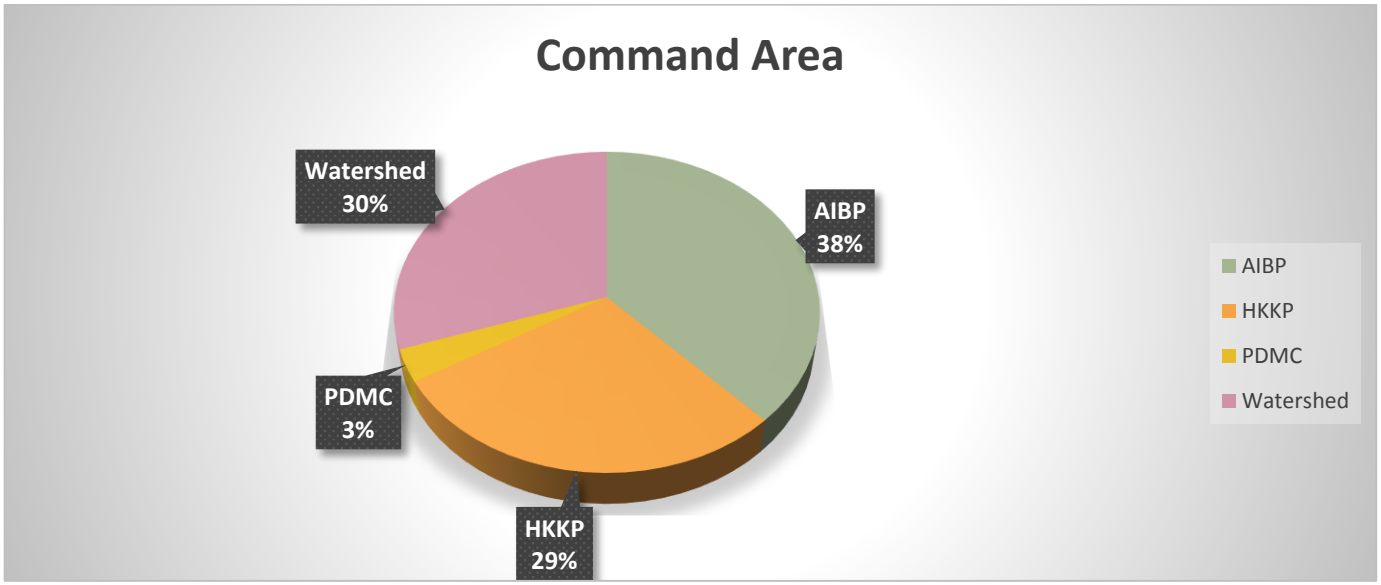

Figure 5.15:Component-wise share in command area in Lakhipur block

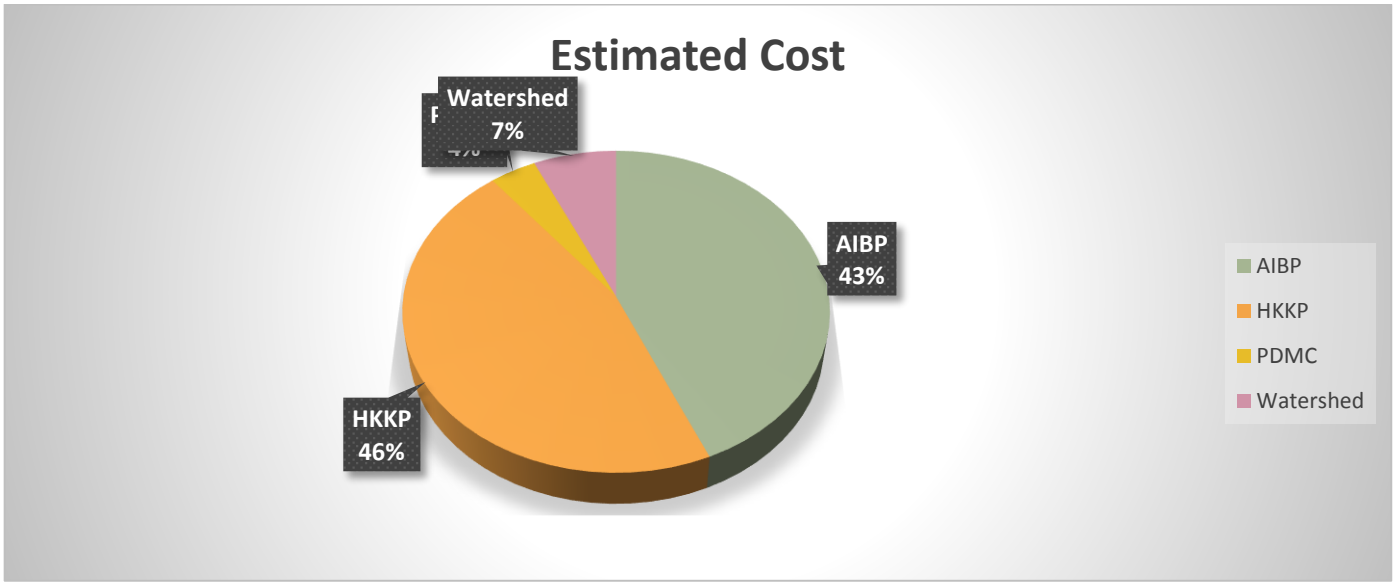

Figure 5.16: Component-wise share in planned outlay in Lakhipur block

In Lakhipur block Har Khet Ko Pani with 7131.5 lakhs and 56% of the planned outlay for the block is the major component planned to be implemented under the PMKSY scheme. This shows the overriding need for increasing area under irrigation in the block. Watershed activities are to be undertaken by Soil Conservation Department with 2073.73 lakhs (16%) of the planned outlay. AIBP component has 2595 lakhs or 21% of the planned outlay. Per Drop More Crop forms a minor component in the block with only 830.5 lakhs (7%) being kept aside for it from the planned outlay under PMKSY in the block

VII. Matia Block

Table 5.9: Component-wise command area and planned outlay under PMKSY in Matia block

Matia	AIBP	HKKP	PDMC	Watershed	Total
Command Area	864.6	8868.64	730.9	1627.97	**12092.11**
Estimated Cost	590	7371	1085.75	965.9	**10012.65**

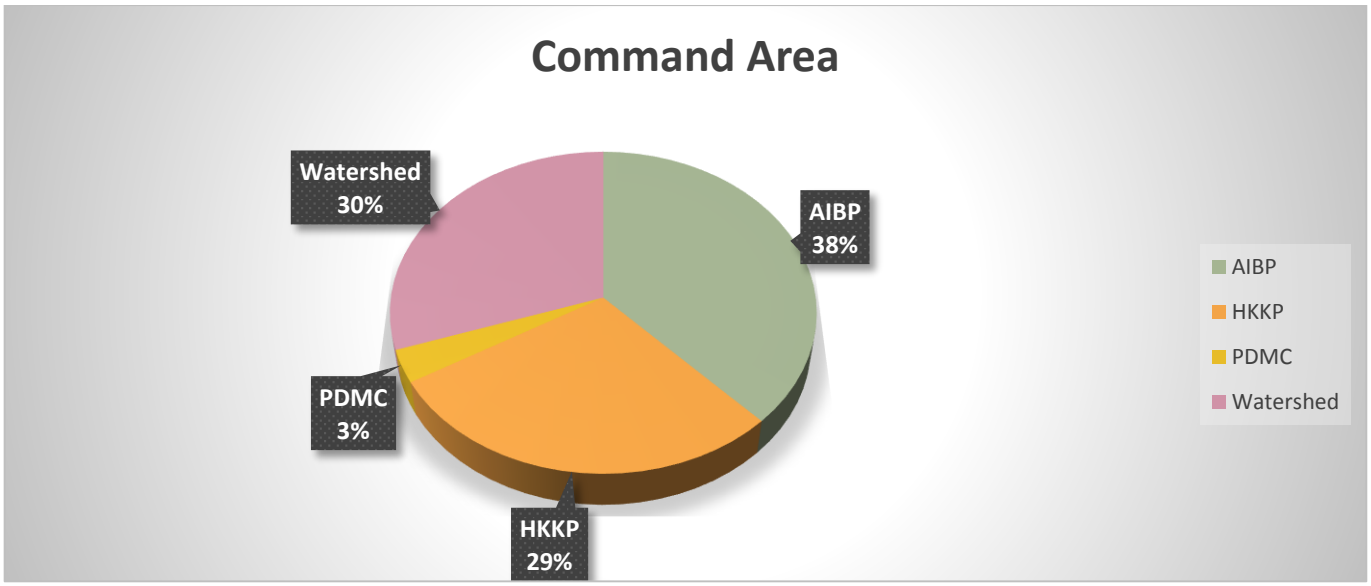

Figure 5.17: Component-wise share in command area in Matia block

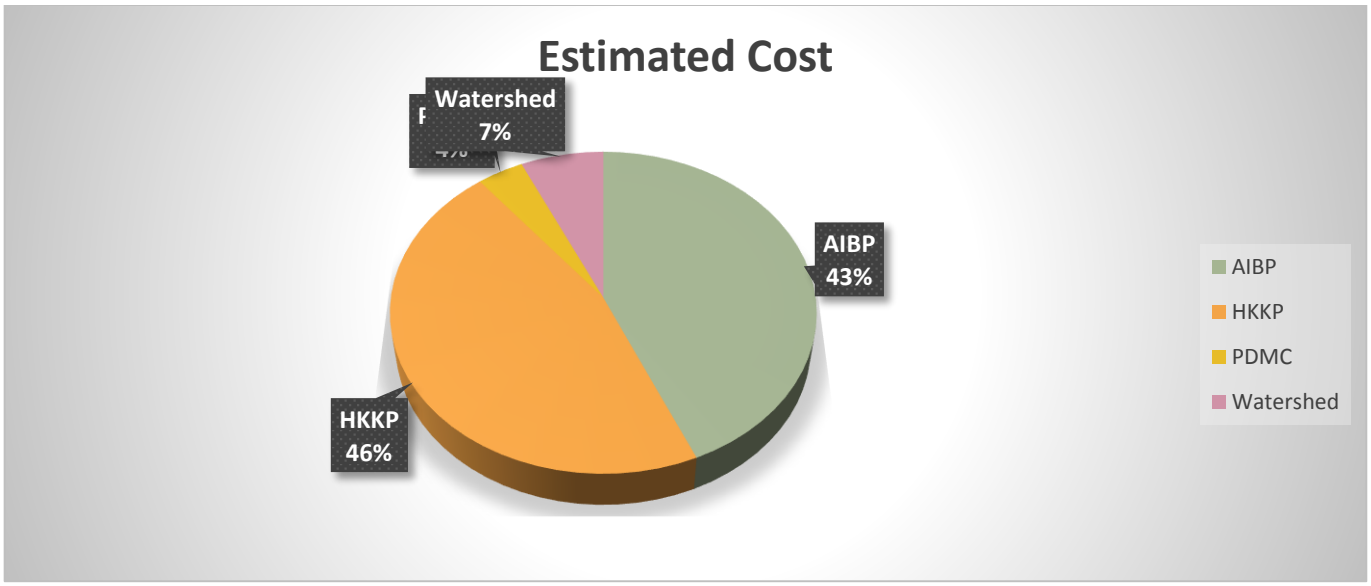

Figure 5.18: Component-wise share in planned outlay in Matia block

In Matia block, Har Khet Ko Pani component has 73% of the planned outlay with 7371 lakhs. Per Drop More Crop and Watershed have 1085.75 and 965.9 lakhs allotted as planned outlay. AIBP has the least outlay in the block with only 590 lakhs or 6% under it.

VIII. Rongjuli Block

Table 5.10: Component-wise command area and planned outlay under PMKSY in Rangjuli block

Rangjuli	AIBP	HKKP	PDMC	Watershed	Total
Command Area	7394	5631.04	640.6	5897.22	**19562.86**
Estimated Cost	10465	11040	931.5	1656.12	**24092.62**

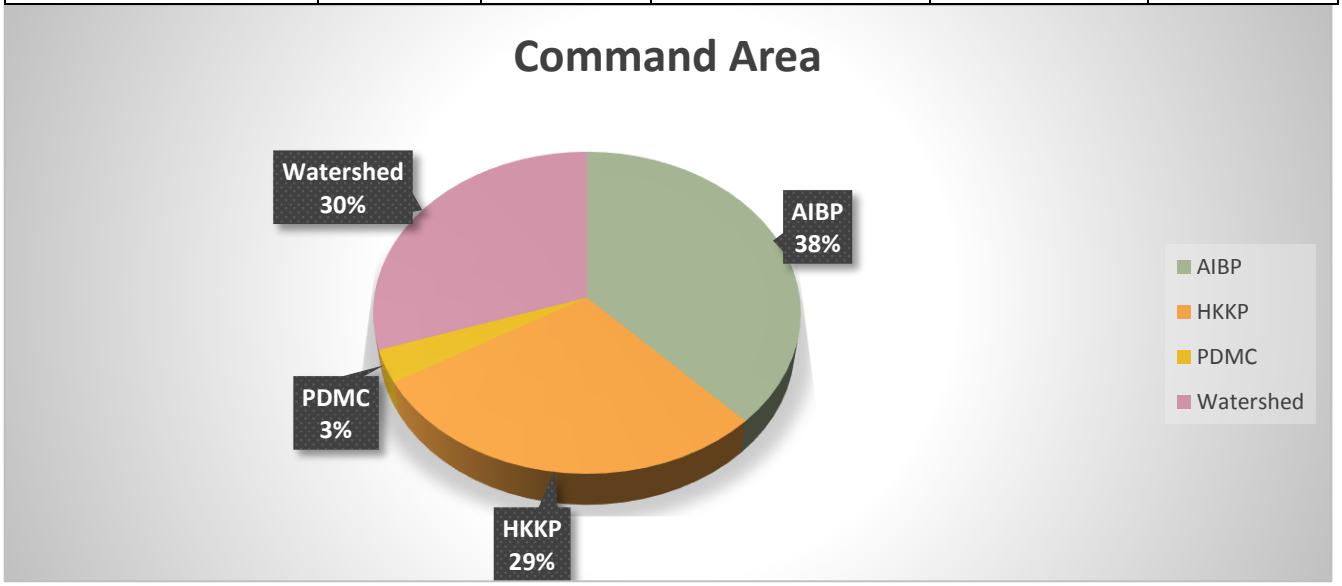

Figure 5.19: Component-wise share in command area in Rangjuli block

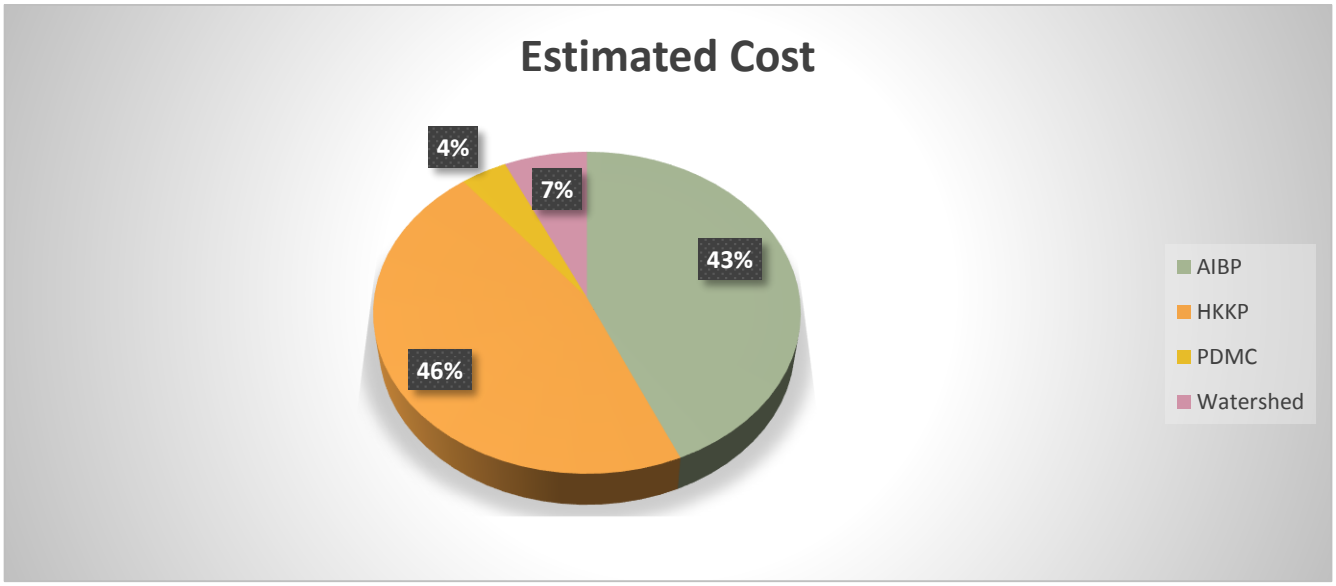

Figure 5.20: Component-wise share in planned outlay in Rangjuli block

In Rongjuli block, out of the planned outlay of 24092.62 lakhs, 46% or 11040 lakhs is planned on Har Khet Ko Pani component. AIBP component takes second place with 10465 lakhs (43%) planned for it. Watershed activities have a planned outlay of 1656.12 lakhs (7%) and Per Drop More Crop has the least outlay in the block with only 931.5 lakhs (4%) kept aside for it.

5.3 Department-wise plan of the district

Table 5.11: Department wise command area and planned outlay under PMKSY in Goalpara district

Department wise		
	Command Area(ha)	**Estimated Cost (Rs. lakhs)**
Agriculture	58334.35	60888.11
Irrigation	19029.39	31651.53
Soil Conservation	15258.7	7131.22
Total	**92622.44**	**99670.86**

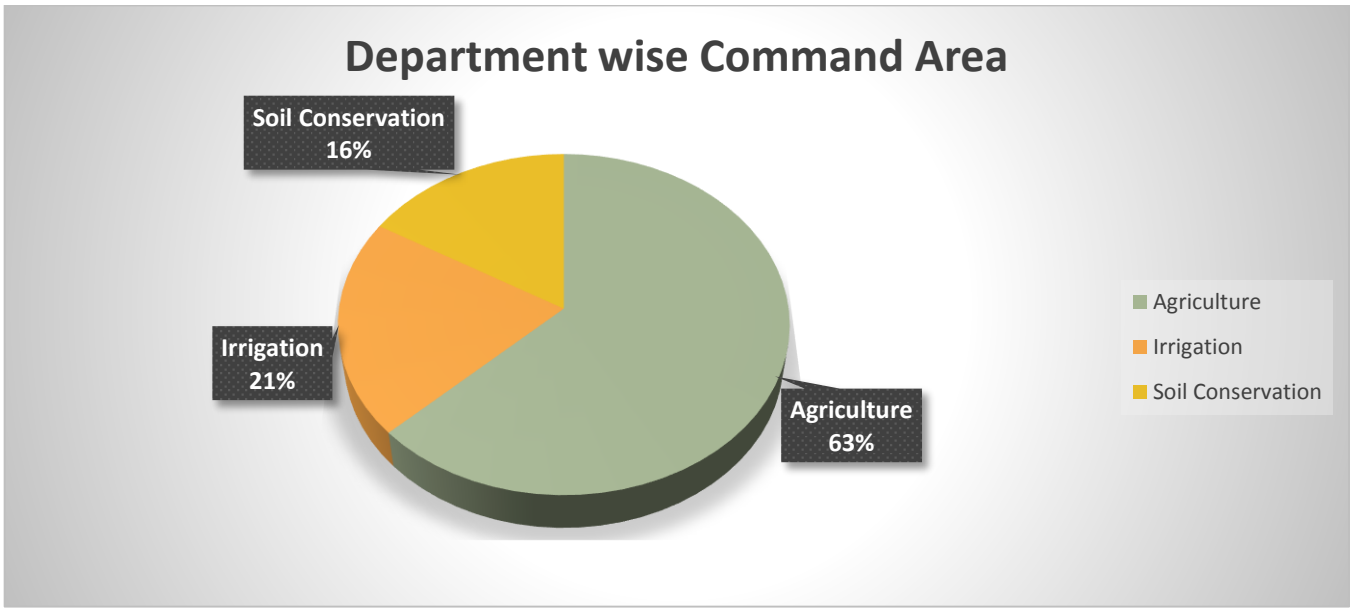

Figure 5.21: Department-wise share in command area in Goalpara

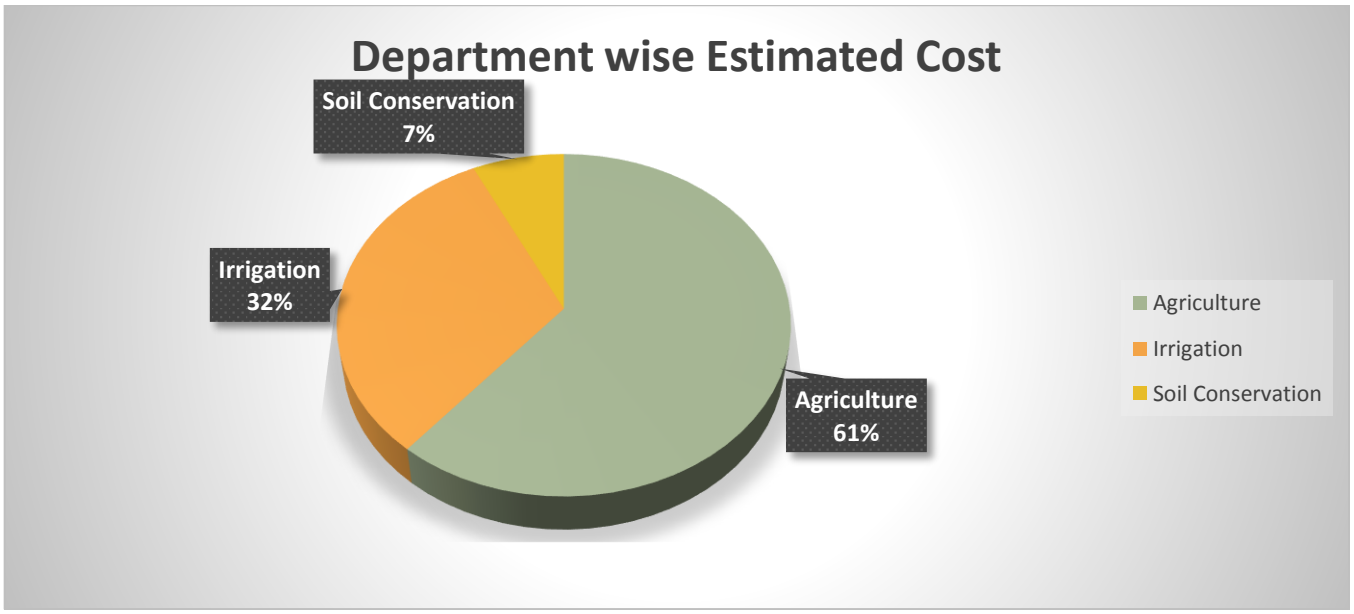

Figure 5.22: Department-wise share in planned outlay in Goalpara district

Department-wise, Department of Agriculture has the highest share by some distance with 60888.11 lakhs or 61% of the planned outlay in Goalpara. Irrigation department has the second highest share with 31651.53 lakhs or 32% of the planned outlay. Soil Conservation Department which is responsible for watershed activities accounts for 7131.22 lakhs or 7% of the total planned outlay.

5.4 Pisciculture

Although pisciculture is not included in the strategic action plan, there lies immense scope for pisci-culture through irrigation system in Goalpara district. Availability of abundant water and assured good quality water throughout the year is the prime need for modern pisciculture. Maintaining of water level in culture pond /beels by constructing inlet & outlet system is necessary for intensification of culture system and thereby enhancing the sustainable fish production throughout the year. Irrigation facility will help in fishery sector as follows:

- With the help of water supply from irrigation canal, construction of modern fish farm for intensive fish culture, grow out fish seed farm, integrated paddy cum fish culture adjacent in marginal low lying area can be established.
- Excavation of fish pond with irrigation facility become 30% cheaper comparing to non-irrigated tank due to limited depth of cutting.
- Irrigation will increase the fish production of seasonal beels as well perennial beels. On the other hand it will tremendously help in fish breeding of indigenous fish variety during breeding season. Therefore it will save the fish bio-diversity and conserve the indigenous fish spp.
- Assured irrigation facility particularly in beels will make water spread area up-to double.

Most Potential Beels/Water bodies suitable for development through Irrigation System

Sl. No.	Name of the Beel	Address	Name of Block
1	Hasila Beel	Vill- Baladmari P.O.- Baladmari	Balijana Dev. Block
2	Kumri Beel	Vill- Kumri P.O.- Dariduri	Do
3	Urpad Beel	Vill- Agia P.O.- Agia	Do
4	Jinai Beel	Vill- Barvita P.O.- Dariduri	Do
5	Dhamar-Raijan Beel	Vill- Dhamar	Lakhipur Dev. Block

		P.O.- Dhamar	
6	Manas-Paddobari Beel	Vill- Manaspara P.O.- Lakhipur	DO
7	Chakla Beel	Vill- Chakla P.O.- Aolatoli	Do
8	Bagulamari Beel	Vill- Bagulamari P.o.- dudhnoi	Kushdhowa Dev. Block
9	Hapachora Beel	Vill- Hapachora P.O.- Simlitola	Do
10	Toplakhowa Beel	Vill- Toplakhowa P.O.- Simlitola	Do
11	Pandoba Beel	Vill- Pandoba P.O.- Maladhara	Kharmuja Dev. Block
12	Motilang Beel	Vill- Motilang P.O.- Baguan	Do
13	Chakla Beel	Vill- Chakla P.O.- Baguan	Do
14	Thepkai Beel	Vill- Thepkai P.O.- Ram-Hari Char	Do
15	Nolonga Beel	Vill- Nolonga P.O.- Ram-Hari Char	Do
16	Baysa Beel	Vill- Baysa P.O.- Lakhipur	Jaleswar Dev. Block
17	Baousatary Beel	Vill- Baousatary P.O.- Dhumerghat	Do
18	Sabang Juriya Beel	Vill- Bhimkhoj P.O.- Khalishabhita	Do
19	Salhana Sigri Beel	Vill- Salhana P.O.- Besorkona	Do
20	Sigri Beel	Vill- Sigri P.O.- Besorkona	Do

Annexure

Name of the District : Goalpara

Name of the Block : Krishnai

Sl. No.	Name of the GP	Name of the Village	Net Crop Area	Existing potential(Ha)	% of Irrigated area at present	Balance Area to be covered(Ha)	Proposed by Irrigation Deptt.			Proposed by Char Dev. Deptt.			Proposed by Agriculture		
							Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L
1	Zira	PUB DAIRANG	260	17	6.5385	243							LIS, DTW	243	150
2		PACHIM DAIRANG	40	10	25	30							FIS	30	18
3		CHELAPARA	275	7	2.5455	268							FIS, Drip Irrigation	229	150
4		PUB ZIRA	156	12	7.6923	144							FIS	144	100
5		PACHIM ZIRA	10	0	0	10							FIS	10	8
6		KHARDANG PT-I	180	6	3.3333	174							FIS	146	110
7		KHARDANG PT-II	166	16	9.6386	150	Bamunepanikhowa DTWS(O)	20	60				FIS	130	120
8		BELPARA PT- I	285	31	10.877	254	Bamunepanikhowa DTWS(O)	20					FIS	174	150
9		Bamuni Pani Khowa	350										DTW	306	600
10		Torenstip(Chenimari)	93	36	38.71	57		0	0				FIS	7	8
		Sub Total	**1815**	**135**	**7.438**	**1680**		**40**	**60**					**1419**	**1414**
11	Ba	Bhimajuli	121	0	0	121							DTW	121	240

12		Tukura	270	21	7.7778	249	Hadigaon DTWS (R)	30					STW	219	54
13		Hadigaon (Hindupara)	121	26	21.488	95	Hadigaon DTWS (R)	10	50				DTW & WHT	85	120
14		Hadigaon (Muslimpara)	200	28	14	172	Hadigaon DTWS (R)	10					STW	162	40
15		Khermohora	203	0	0	203		0					DTW & WHT	203	420
16		Bornohara Pt.I	140	0	0	140	Bornohara DTWS (4 points)(N)	60	200				DTW & WHT	80	85
17		Bornohora Pt. II	172	0	0	172	Bornohara DTWS (4 points)(N)	60					STW	112	28
		Sub Total	**1227**	**75**	**6.1125**	**1152**		**170**	**250**					**982**	**987**
18	Molandubi	Nayanpara	110	17	15.455	93	Krishnai LIS (R)	83	300				WHT	10	25
19		Siyali	140	18	12.857	122	Krishnai LIS (R)	120					WHT	2	5
20		Molandubi	105	35	33.333	70		0					STW	70	17
21		Tepakona Kalpani	70	14	20	56		0					STW	56	14
22		Pakhariguri	60	16	26.667	44		0					STW	44	11
23		Kharidhana	60	12	20	48		0					STW	48	12
24		Rampur	50	12	24	38		0					STW	38	10
25		Guria Pt- 1	80	20	25	60		0					STW	60	15
26		Bheltenghat 8 No.	95	23	24.211	72		0					DTW & WHT	72	150
27		Bheltenghat	80	16	20	64		0	0				DTW & WHT	64	130
		Sub Total	**850**	**183**	**21.529**	**667**		203	**300**					**464**	**389**
28	Fofonga	Fofonga Pt I	125	72	57.6	53	Fofonga DTWS 4 points(N)	40	200				_	0	0
29		Fofonga Pt II	198	30	15.152	168	Fofonga DTWS 4 points(N)	40					STW	128	32
30		Fofonga Pt III	205	24	11.707	181		0					STW	181	45
31		Khagrabari	210	122	58.095	88	Khagrabari DTWS(O)	30	60				STW	58	14

32		Tukura Pt I	195	86	44.103	109	Tukura Pt-I DTWS(N)	60	120				STW	49	12
33		Tukura Pt II	225	66	29.333	159	Tukura Pt-II DTWS(N)	90	180				STW	69	17
		Sub Total	**1158**	**400**	**34.542**	**758**		**260**	**560**					**485**	**120**
34	Bhelakhamar	Bhelakhamar	82	72	87.805	10	Manikpur DTWS(R)	10	60				_		
35		Manikpur	102	77	75.49	25	Manikpur DTWS(R)	10					STW	15	3.5
36		Sokomari	110	62	56.364	48	Manikpur DTWS(R)	20					STW	28	7
37		Khamar Manikpur	65	35	53.846	30	Manikpur DTWS(R)	10					STW		
38		Buzruk Manikpur A	76	37	48.684	39	Manikpur DTWS(R)	10					STW	29	7
39		Buzruk Manikpur B	112	25	22.321	87	Buzruk Manikpur B DTWS(N)	30	60				STW	57	21
40		Bhoreya	90	23	25.556	67	Bhoreya DTWS (N)	60	120				STW	7	16
41		Jorarabadi	82	30	36.585	52	Jorarabadi DTWS (N)	30	60				STW	22	13
42		Khariza Manikpur	83	21	25.301	62	Khariza Manikpur DTWS (Solar powered)(N)	20	60				STW	42	15
		Sub Total	**802**	**382**	**47.631**	**420**		**200**	**360**					**200**	**82.5**
43	Dhaigaon	Dhaigaon	360	41	11.389	319	Dhaigaon DTWS (N)	90	180				DTW & WHT	229	450
44		Khairapara	81	11	13.58	70	Krishnai LIS (R)	12	-				DTW & WHT	58	120
45		Dhaigaon Damas	115	17	14.783	98	Dhaigaon Damas DTWS-2 pts(N)	60	120				DTW & WHT	38	80
46		Korkori Damas	235	9	3.8298	226	Korkori Damas DTWS-2points (N)	60	100				DTW & WHT	166	340

47		Pahidol	85	8	9.4118	77		0					DTW	77	120
48		Kalpani Ghilajari	182	14	7.6923	168	DTWS	168	165				_	0	0
49		Kaliasastra	123	30	24.39	93	Matia LIS-Kaliasastra pt (R)	60	60				STW	33	8
50		Sardarpara	247	36	14.575	211	Krishnai LIS (R)	85	-				STW	126	31.5
		Sub Total	**1428**	**166**	**11.625**	**1262**		**535**	**625**					**727**	**1149.5**
51	Krishnai	Arudubi	112	11	9.8214	101							STW	101	25
52		Bidyapara	128	11	8.5938	117							STW	117	29
53		Bedbari	90	4	4.4444	86							STW	86	21
54		Paikan Pt I	520	10	1.9231	510							STW	510	127
55		Paikan Pt II	375	7	1.8667	368							STW	368	92
56		Khariza Manikpur	185	11	5.9459	174	Khariza Manikpur DTWS-2points (N)	60	100				STW	114	28.5
57		Chakudbaya	120	5	4.1667	115							STW	115	28.5
		Sub Total	**1530**	**59**	**3.8562**	**1471**		**60**	**100**					**1411**	**351**
58	Salpara	Khamari	183	9	4.918	174							FIS	174	180
59		Ghorapota	160	16	10	144	Sigri FIS (O)	100	140				DTW & WHT	44	95
60		Chenimarit Pt I	136	11	8.0882	125	Sigri FIS (O)	40					FIS	85	95
61		Chenimari Pt II	135	9	6.6667	126	Chenimari DTWS(O)	40	60				FIS	86	95
62		Chenimari Pt III	128	17	13.281	111							FIS	111	105
63		Hatimura Pt 1	147	11	7.483	136							FIS	136	140
64		Hatimura Pt II	119	9	7.563	110							FIS	110	115
65		Darapara Pt I	59	4	6.7797	55							DTW & WHT	55	120
66		Darapara Pt II	60	6	10	54							DTW & WHT	54	120
67		Salpara Molandabi Pt I	867	22	2.5375	845							DTW & WHT	767	1690

72		Krishnai Garia Pt II	139	17	12.23	122	Krishnai Garia Pt II DTWS(N)	90	180				DTW & WHT	32	65
		Sub Total	**2133**	**131**	**6.1416**	**2002**		**270**	**380**					**1654**	**2820**
69	Measelkhowa	Koimari Pt I	40	0	0	40							DTW & WHT	40	85
70		Koimari Pt II	45	3	6.6667	42							DTW & WHT	42	90
71		Birubari Pt I	35	3	8.5714	32							FIS	32	35
72		Birubari Pt II	30	0	0	30							FIS	30	35
73		Daroka	25	3	12	22							FIS	22	30
74		Haluwa para	30	5	16.667	25							FIS	25	32
75		Kukur Kata	65	9	13.846	56							FIS	56	72
76		Rongdan Pt I	55	4	7.2727	51							FIS	51	76.5
77		Rongdan Pt II	75	1	1.3333	74							FIS	74	110
78		Meselkhowa	80	6	7.5	74							FIS	74	110
79		Naya Gaon	50	4	8	46							FIS	46	69
80		Kasumari	60	3	5	57							FIS	57	79.5
81		Baida	80	11	13.75	69							FIS	69	88.5
82		Chengmari	70	8	11.429	62							FIS	62	93
83		Amjanga Pt I	75	5	6.6667	70							FIS	70	106
84		Amjanga Pt II	60	8	13.333	52							FIS	0	0
85		Tasanti	63	3	4.7619	60							FIS	60	90
86		Nadirkoha	44	0	0	44							FIS	44	51
87		Nibari	50	0	0	50							FIS	50	75
88		Kangkhal	75	0	0	75							FIS	75	97
		Sub Total	**1107**	**76**	**6.8654**	**1031**		**0**	0					**979**	**1424.5**
	Grand Total>>>>>		**13240**	**1607**	**145.7**	**10443**		**1738**	**2635**					**8321**	**8737.5**

Name of the District : Goalpara

Name of the Block : Jaleswar

Sl. No.	Name of the GP	Name of the Village	Net Crop Area	Existing potential(Ha)	% of Irrigated area at present	Balance Area to be covered(Ha)	Proposed by Irrigation Deptt.			Proposed by Char Dev. Deptt.			Proposed by Agriculture Deptt.		
							Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L
1	Gossaidubi	Gossaidubi - Muslimpara	75	59	78.67	16							–	0	0
2		Gossaidubi-Hindupara	200	135	67.5	65	Jinjiram LIS (R)	65	65				–	0	–
3		Baosatari	120	98	81.67	22	Ghagua FIS (R)	22	22				–	0	–
4		Dharai	140	65	46.43	75	Gossaidubi - Namapara LIS(N)	75	250				–	0	–
5		Haruafuta	37	12	32.43	25	Gossaidubi - Namapara LIS(N)	25					–	0	–
		Sub Total	**572**	**379**	**66.26**	**193**		**187**	**337**					**0**	**0**
6	Guriadhap	Golokerpump	64	30	46.88	34	Ghagua FIS (R)	14	34				STW	20	5
7		Holdibari	120	80	66.67	40	Ghagua FIS (R)	20					STW	20	5
8		Morichbari Pt-i	151	70	46.36	81	Morichabari DTWS(R)	10	10				STW	23	6
9		Morichbari Pt-ii	312	100	32.05	212	Morichabari DTWS- 3 Points (N) & Andurber LIS (N)	200	580				–	0	0
10		Morichbari Pt-iii	138	40	28.99	98	Morichabari DTWS- 3 Points (N) & Andurber	90					STW	8	2

							LIS (N)								
		Sub Total	**785**	**320**	**40.76**	465		**334**	**624**					**71**	**18**
11	Haguripara	Haguripara	48	18	37.5	30							STW	30	7.5
12		Chulkanipara	62	29	46.77	33							–	0	0
13		Baorartal	47	16	34.04	31							STW	20	5
14		Thongpara-Balikashi	39	12	30.77	27							–	0	0
		Sub Total	**196**	**75**	**38.27**	**121**		**0**	**0**					**50**	**12.5**
15	Hasduba	Folimari	81	27	33.33	54	Jaleswar DTWS(R) &GodlarpamLIS(N)	30	42				STW	24	6
16		Kantapur	125	37	29.6	88	Godlarpam LIS(N)	80	250				STW	8	2
17		Hatimura	97	21	21.65	76	Hatimura DTWS (2 Points) (N)	60	120				STW	16	4
18		Hashdoba	133	46	34.59	87	Hasdoba DTWS (2 Points)(N)	0					Muslimpara LIS	47.8	55
19		Bandarmatha	133	17	12.78	116	Bandarmatha DTWS (2 Points)(N)	60	120				STW	56	14
20		KurshapakriPt-i	145	27	18.62	118	Kurshapakri DTWS (10 Points)(N)	60	600				FIS	13.6	25
21		KurshapakriPt-ii	267	34	12.73	233	Kurshapakri DTWS (10 Points)(N)	180					STW/FIS	52	36
22		KurshapakriPt-iii	119	27	22.69	92	Kurshapakri DTWS (10 Points)(N)	40					FIS	12	20
		Sub Total	**1100**	**236**	**21.45**	**864**		**510**	**1132**					**229.4**	**162**
23	Jaleswar	Bonnyaguri	220	90	40.91	130	Bonnyaguri DTWS (3 Points)(N)	60	180				STW	70	17.5
24		Soto-Udmari	115	40	34.78	75	Soto-Udmari DTWS (2 Points)(N)	40	102				STW, WHT	35	20
25		Bamunirvita	280	80	28.57	200	Bamunirvita DTWS (5 Points)(N)	150	300				STW	50	12.5

26		Jaleswar Bil Pt-i	240	43	17.92	197	Jaleswar DTWS(R) & Jaleswar Bil DTWS (10 Points)(N)	190	600				STW	7	2
27		Jaleswar Bil Pt-ii	220	46	20.91	174	Jaleswar DTWS(R) & Jaleswar Bil DTWS (10 Points)(N)	150					STW	24	6
28		Tariarvita	30	7	23.33	23		0					STW	23	6
29		Kadomtola	40	5	12.5	35		0					STW	35	9
30		North Satvendi	110	13	11.82	97		0					STW	97	24.5
31		Takimari	140	33	23.57	107	Sialkanda LIS (O)	7					STW, WHT	100	47.5
32		Bhalukmari	90	16	17.78	74	Sialkanda LIS (O)	40	36.7				STW, WHT	34	31
33		Shialkanda	240	101	42.08	139	Sialkanda LIS (O)	55					STW	84	21
34		Satvendi-Kadomtola	60	11	18.33	49		0					STW	49	12.5
35		Tengonmari	40	5	12.5	35		0					STW	35	9
36		Soto Tangvita	40	11	27.5	29	Soto Tangvita DTWS-1point(N)	17	34				STW	12	3
37		Boro Tangvita	45	0	0	45		0					STW	45	11
38		Sat Simla	40	0	0	40		0					STW	40	10
39		Thurthuriduba	30	0	0	30		0					STW	30	7.5
40		Namkurvita	35	0	0	35		0					STW	35	8.5
41		Niz-Bahadurtari	27	0	0	27		0					STW	27	7
42		Batapara	25	0	0	25		0					STW	25	6.5
43		Singmari	25	0	0	25		0					STW	25	6.5
44		Rowarvita	28	0	0	28		0					STW	28	7
45		South Satvendi	40	0	0	40		0	0				STW	40	10
****	****	**Sub Total**	**2160**	**501**	**23.19**	**1659**	****	**709**	**1253**	****	****	****	****	**950**	**295.5**

46	Katarihara	Katarihara	335	84	25.07	251	Katarihara DTWS (5 Points)(N)	120	240				STW & WHT	131	55
47		Ghugudoba	184	62	33.7	122	Ghugudoba DTWS (2 Points)(N)& Dmribhasa LIS(O)	56	64				STW	66	16.5
48		Bashmura	70	29	41.43	41	Bashmura DTWS 1-pt(N) & Damribhasa LIS (O)	35	70.7				STW	6	1.5
49		Damrivasha	284	96	33.8	188	Bashmura DTWS 1-pt(N) & Damribhasa LIS (O)	110					STW	78	19.5
50		Tekona	106	70	66.04	36	Tekona DTWS (1 Point)(N)	15	30				STW	21	5.5
51		Boro-Udmari	51	36	70.59	15		0	0				STW	15	4
		Sub Total	**1030**	**377**	**36.6**	**653**		**336**	**405**					**317**	**102**
52	Kathuri	Pub-Kathuri	143	133	93.01	10		0					STW	10	2.5
53		Pachim-Kathuri	140	140	99.64	0.5		0					STW	0.5	0.5
54		Sabtibari	53	11	20.75	42	Sabtibari DTWS (1 Point)(N)	24	48				_	0	0
55		Koraibari	65	14	21.54	51		0					STW	51	12.5
56		Gerapuri	78	11	14.1	67	Gerapuri DTWS (1 Point)(N)	26	52				STW	40	10
57		Fetengapara	105	18	17.14	87		0					STW	87	22
58		Bodbodia	32	8	25	24		0	0				_	0	0
		Sub Total	**616**	**335**	**54.3**	**1588**		**50**	**100**					**188.5**	**47.5**
59	khalisavita	Satsia-Khamar	179	77	43.02	102	Satsia-Khamar DTWS (2 Points)(N)	60	120				STW, WHT	42	35.5
60		Motikhowa	215	105	48.84	110	Motikhowa DTWS (2 Points)(N)	60	120				STW	50	12.5

61		KhalisavitaMuslimpara	156	75	48.08	81	KhalisavitaMuslimpara DTWS (2 Points)(N)	60	120				STW	21	5
62		Khalisavita-Hindu Para	107	46	42.99	61	Khalisavita-Hindu Para DTWS (2 Points)(N)	30	60				STW	31	7.5
63		Katlamari	53	14	26.42	39	Ghagua FIS (R)	37	-				STW	2	1
64		Charaljhar	173	37	21.39	136	Charaljhar DTWS (3Ppoints)(N)	90	180				STW,WHT	46	36
65		Dapkarvita	240	95	39.58	145	Ghagua FIS (R)	100	773				STW	45	11
66		Bherbheri	77	17	22.08	60	Ghagua FIS (R)	57					WHT	3	5
		Sub Total	**1200**	**466**	**38.83**	**734**		**494**	**1373**					**240**	**113.5**
67	Monkola Shialdhara	Monkola	91	17	18.68	74							STW	74	18.5
68		Kaminirvita	121	40	33.06	81							STW	81	20.5
69		Fulkakata	86	27	31.4	59							STW	59	14.5
70		Patakata	100	38	38	62							STW	62	15.5
71		Shialdhara	96	25	26.04	71							STW	71	17.5
72		Changeralga	67	13	19.4	54							STW	54	14
73		Raychand-Char	55	7	12.73	48							STW	48	12
74		Ghunimari	82	13	15.85	69							STW	69	17.5
75		Bakpara	67	9	13.43	58							STW	58	15
76		Diner Alga	49	6	12.24	43							STW	43	11
		Sub Total	**814**	**195**	**23.96**	**619**		**0**	**0**					**619**	**156**

77	Rajmita	Rajmita	190	34	17.89	156	Rajmita DTWS (4 Points)(N)	110	220				STW & WHT	46	45.56
78		Kesrapara	130	43	33.08	87	Kesrapara DTWS (2 Points)(N)	40	80				_	0	0
79		Dhobakura	310	41	13.23	269	Dhobakura DTWS (6 Points)(N)	170	340				STW	99	24.5
80		Kharubhaj	180	44	24.44	136	Kharubhaj DTWS 1point (O)& 2 points(N)	70	140				STW	13	3.5
81		Manas-Reserve	70	20	28.57	50		0	0					0	0
		Sub Total	**880**	**182**	**20.68**	**698**		**390**	**780**					**158**	**73.56**
82	Takimari	Takimari Grazing Reserve	614	148	24.1	466	Takimari DTWS(R)& Takimari Grazing Reserve DTWS- 6 points(N)	30	60				STW	436	109
83		Shimulkandi	46	14	30.43	32	Shimulkandi DTWS 1pt(N)	15	30				STW	17	4.5
		Sub Total	**660**	**162**	**54.54**	**498**		**45**	**90**					**453**	**113.5**
84	Tarangapur	Tarangapur	269	162	60.22	107	Tarangapur DTWS (3 Points)(N)	50	100				STW, WHT	20	36.5
85		Suparivita	135	0	0	135	Suparivita DTWS (2 Points)(N)	60	120				STW, WHT	74	50
86		Chillarvita	287	0	0	287		0					STW	287	72
87		Sordervita	30	0	0	30	Sordervita DTWS(N)	15	30				_	0	0
88		Mowamari	93	0	0	93		0					STW	93	23.5
89		Panikamratary	77	0	0	77		0					STW	77	19.5
90		Dambari	52	0	0	52		0					STW	52	13
91		Feshatary	45	0	0	45		0	0				STW, WHT	45	25
		Sub Total	**1648**	**324**	**19.66**	**1324**		**125**	**250**					**648**	**239.5**

92	Gaurnagar	Salbari	195	100	51.28	95	Silkhapara LIS RT point(R)	65	82.1				STW	30	7.5
93		Shaldhowa	158	87	55.06	71	Shaldhowa DTWS (2 Points)(N)	50	100				STW	21	5.5
94		Chowkatola	77	27	35.06	50	Silkhapara LIS LT point(O)	30	50				STW, WHT	20	27.5
95		Haldhibari	49	22	44.9	27	Coibari FIS(N)	20	-				STW, WHT	7	6.5
96		Koimari	36	18	50	18	Coibari FIS(N)	18					_	0	0
97		Chaibari-Muslimpara	34	14	41.18	20	Silkhapara LIS LT point(O)	20	-				_	0	0
		Sub Total	**549**	**268**	**48.82**	**281**		**203**	**232**					**78**	**47**
98	Simlabari	Gumaijhar	280	35	12.5	245	Coibari FIS(N)	240	-				STW	5	1.5
99		Chataimari	62	45	72.58	17	Ghagua FIS (R)	17	-				_	0	_
100		Rakhalkilla	236	110	46.61	126	Ghagua FIS (R)	120	-				WHT	6	1.5
101		Garojan	200	115	57.5	85	Ghagua FIS (R)	80	-				STW	5	1.5
102		Ekla Salbari	170	60	35.29	110	Ghagua FIS (R)	110	-				_	0	_
103		Ghungurivita	75	27	36	48	Ghagua FIS (R)	45	-				STW	3	1
104		Simlabari	177	69	38.98	108	Ghagua FIS (R)	105	0				STW	3	1
114		**Sub Total**	**1200**	**461**	**38.42**	**739**		**717**	**0**					**22**	**6.5**
115	**Grand Total>>>>>>**		**12750**	**4119**	**32.3**	**8631**		**4100**	**6576**					**4023.9**	**1387.1**

Name of the District : Goalpara

Name of the Block : Kuchdowa

Sl. No.	Name of the GP	Name of the Village	Net Crop Area	Existing potential(Ha)	% of Irrigated area at present	Balance Area to be covered(Ha)	Proposed by Irrigation Deptt.			Proposed by Char Dev. Deptt.			Proposed by Agriculture Deptt.		
							Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L
1	Damra	Damra PatPara	301.4	106	35.17	195.4	Dandalama FIS(R)	151							
2		Khunkrajani					Dandalama FIS(R)	0	220						
3		Nishan Gram	217.5	172	79.08	45.5	Dandalama FIS(R)	45						0	0
3		Haban Giri	285.9	13	4.547	272.9	Chitukjhora FIS (N)	45	180				FIS	227.9	200
							Habangiri FIS (N)	120	240				_	0	0
4		Nokmakhundi	36.66	12	32.73	24.66	Dandalama FIS(R)	24.7	-					0	0
5		Thekasu Pt- III	295.1	21	7.116	274.1	Khekhreng FIS (R)	100	100				FIS	96	100
6		Chitukona	51.48	3	5.828	48.48	Chitukjhora FIS (N)	45	-				WHT	3.48	5
		Sub Total	**1188**	**327**	**27.53**	**861**		**531**	**740**					**327.38**	**305**
7	Dudhnai	Thekasu Pt-I	136.5	36	26.37	100.5	Bakrakhuti LIS(R)	101	215				_	0	_
8		Thekasu Pt-II	136.5	10	7.326	126.5	Bakrakhuti LIS(R)	115					WHT	11.5	25
9		Khara pt-I	195.5	18	9.207	177.5	Kharadohela LIS(R)	170	300				WHT	7.5	15
10		Khara pt-II	70.73	10	14.1	60.7	Kharadohela LIS(	60.7					_	0	_

					4	3	R)								
11		Khara medhipara	111.4	22	19.75	89.4	Khara medhipara DTWS Pt. I & II (N)	60	120				DTW	29.4	60
12		Tangabari	94.26	15	15.91	79.26	Kharadohela LIS(R)	70	-				WHT	9.26	12
13		Shialmari Bajemandal	54.16	10.5	19.39	43.66		0	0				STW	43.66	22
****	****	**Sub Total**	**799**	**121.5**	**15.21**	**677.5**	****	**576**	**635**	****	****	****	****	**101.32**	**134**
14	Puronibhita	Fafal	250.2	71	28.38	179.2		0					DTW	123.6	240
15		Chuchia (hatimura salpara)	262.3	237	90.35	25.3		0					DTW	25.3	60
16		Charaimari	77.33	77	99.57	0.33		0						0	0
17		Chiluk ptI	235.8	16	6.785	219.8		0					FIS,Check Dam	219.8	200
18		Chiluk ptII	100.5	14	13.93	86.5		0					FIS	86.5	90
20		Puronibhita	111.5	90	80.72	21.5		0					STW	21.5	5
21		Nabagram	45.25	9	19.89	36.25		0					DTW & WHT	36.25	70
22		Rongpathar	91	32	35.16	59		0					DTW & WHT	59	80
23		Nalbari	58.5	7	11.97	51.5		0					DTW & WHT	51.5	80
24		Kharabagari bari	194.5	132	67.87	62.5		0					FIS	62.5	75
25		Chuchiapahar ptI	52.5	28	53.33	24.5		0					FIS	24.5	30
26		Chuchiapahar ptII	40.73	28	68.75	12.73		0					FIS	12.73	10
****	****	**Sub Total**	**1520**	**741**	**48.7**	**779**	****	**0**	**0**	****	****	****	****	**723.1**	**940**

					5									**8**	
27	Kuchdhuwa	Darakh	160	22	13.75	138		0					DTW & WHT	138	150
28		Latapara	80	6	7.5	74		0					DTW & WHT	74	125
29		Deulguri pt I	155	14.5	9.355	140.5		0					DTW & WHT	140.5	250
30		Deulguri pt II	175.5	18	10.26	157.5		0					FIS	79.7	150
31		Rangrangapara	167.3	17	10.16	150.3	Rangrangapara FIS (N)	100	200				FIS	50.3	80
32		Manupara	180.7	21	11.62	159.7		0					DTW	126.4	300
34		chesapani pt-I	176.8	18	10.18	158.8	Chechapani DTWS 2 Points (N)	30	120				DTW	128.8	240
35		chesapani pt-II	184.8	23	12.45	161.8	Chechapani DTWS 2 Points (N)	30					DTW	131.8	150
		Sub Total	**1280**	**139.5**	**10.9**	**1141**		**160**	**320**					**869.5**	**1445**
36	Lela	Lela-Sagunbahi	117.8	52	44.14	65.8		0					FIS	65.8	58.5
37		Mowamari	128	39	30.47	89	Mowamari FIS (N)	60	120				FIS	29	60
38		Bandarshi pt-I	97.5	26	26.67	71.5	Aithan FIS (R)	55	120				FIS	16.5	35
39		Bandarshi pt-II	103.7	22	21.22	81.7	Aithan FIS (R)	65					FIS	16.7	38
40		Bandarshi pt-III	107.5	26	24.19	81.5		0					DTW & WHT	81.5	150
41		Baramatia I	110.6	17	15.37	93.6		0					DTW	93.6	180
42		Baramatia II	109.3	16	14.64	93.3		0					DTW	93.3	180
43		Mandalgram I	115.7	22	19.01	93.7	mandalgram DTWS 2 Points (N)	30	120				DTW	63.7	120

44		Mandalgram II	112.6	28	24.87	84.6	mandalgram DTWS 2 Points (N)	30					DTW	54.6	120
45		Rowmari	58.72	13	22.14	45.72		0					WHT & LLP	45.72	11
46		Dighali	156.9	114	72.66	42.9	Thekachung Benchumari FIS(R) & Rambukpara DTWS 2 Points (N)	42.9						0	
47		Bagulamari	126	108	85.71	18	Thekachung Benchumari FIS(R) & Rambukpara DTWS 2 Points (N)	18	211					0	
48		Rambukpara	127.8	17	13.3	110.8	Thekachung Benchumari FIS(R) & Rambukpara DTWS 2 Points (N)	111					DTW	0	60
49		Guwbari mandal gram hills	50	4	8	46		0	0				FIS	46	50
		Sub Total	**1522**	**504**	**33.11**	**1018**		**412**	**571**					**606.42**	**1062.5**
50	Darranggiri	Prithupara	85.66	22	25.68	63.66	Letkubari DTWS-2 pts. (N)	60	120				FIS	3.66	80
51		Majpara	100.7	37	36.74	63.7		0					DTW	30.4	60
52		Tarapara	77.46	4	5.164	73.46	Rongrong FIS	70	-					0	0
53		Kochdhuwapara pt-I	110.4	0	0	110.4	Kuchdowapara DTWS 2 Points (N)	30	120				DTW &WHT	64.4	90
54		Kochdhuwapara pt-II	75.46	0	0	75.46	Kuchdowapara DTWS 2 Points (N)	30					DTW	45.46	60
55		Moiskhulipara	95.33	6	6.29	89.3		0					DTW	89.33	180

					4	3									
56		Moiskhulikhama	69.6	3	4.31	66.6		0					DTW	66.6	120
57		Sakakata	50.06	0	0	50.06		0					DTW & WHT	50.06	60
58		Kaynakuchi	70.6	4	5.666	66.6		0					DTW	66.6	120
59		Patiarpara Pt-I	45.26	30	66.28	15.26	Kornoi FIS(R)	15.3					_	0	_
60		Patiarpara Pt-II	35.66	25	70.11	10.66	Kornoi FIS(R)	10.7	150				_	0	_
61		Jakuapara	78.54	44	56.02	34.54	Kornoi FIS(R)	34.5					_	0	_
62		Santipur	50.2	35	69.72	15.2	Rongronga FIS(R)	15.2					_	0	_
63		Hajaripara	47.1	30	63.69	17.1	Kornoi FIS(R)	17.1	307				_	0	_
64		Rowmari	67.4	30	44.51	37.4	Rongronga FIS(R)	37.4					_	0	_
65		Melopara	70.1	70	99.86	0.1	Kornoi FIS(R) Simadari LIS (Nalbari Village)(N)	0.1	_				_	0	_
		Nalbari					Kornoi FIS(R) Simadari LIS (Nalbari Village)(N)	60	120					0	
66		Gundimpather	32.44	30	92.48	2.44	Kornoi FIS(R) Simadari LIS (Nalbari Village)(N)	2.44						0	0
		Sub Total	**1162**	**370**	31.84	792		**383**	817					**416.51**	**770**
67	Baguankathalbari	Baguan pt I	320	50	15.63	270							STW	270	67.5
68		Baguanpt-II	267	40	14.98	227							STW	227	60

69		Baguan Pt-III	380	30	7.895	350							STW	350	70
70		Baguan Pt-IV	395	50	12.66	345							STW	265	70
71		Toplakhuwa	174	40	22.99	134							STW	134	14
		Sub Total	**1536**	**210**	**13.67**	**1326**		**0**	**0**					**1246**	**281.5**
72	Majakhali	Uporrtola pt-I	200	57	28.5	143	Haldia FIS (N)	143	280				_	0	_
73		Uportola pt-II	200	54	27	146		0					DTW & WHT	146	200
74		Uportola pt-III	150	61	40.67	89		0					LIS	89	95
75		Islampur	175	61	34.86	114	Matia LIS Islampur pt. (R)	100	100				WHT	14	35
76		Singijani	150	46	30.67	104							_	0	0
77		Dahela	150	30	20	120	Matia LIS Dohela pt. (R)	25	25				WHT	28.4	70
78		Malakhali	200	131	65.5	69		0					LIS	69	120
79		Guwabari	175	32	18.29	143		0					FIS & DTW	143	300
80		Dubli	200	50	25	150		0	0				DTW	150	300
		Sub Total	**1600**	**522**	**32.63**	**1078**		**268**	**405**					**639.4**	**1120**
	Grand Total>>>>		**10607**	**2935**	**27.67**	**7672**		**2329**	**3488**	**0**				**4929.7**	**6058**

Name of the District : Goalpara

Name of the Block : Lakhipur

Sl. No.	Name of the GP	Name of the Village	Net Crop Area	Existing potential(Ha)	% of Irrigated area at present	Balance Area to be covered(Ha)	Proposed by Irrigation Deptt.			Proposed by Char Dev. Deptt.			Proposed by Agriculture Deptt.		
							Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L
1	Pukhuripara	Bolaikhamar	121	17	14.05	104	Bolaikhamar DTWS (2 points)(N)	60	120				STW, WHT	44	30
2		Siggri pt-II	85	50	58.82	35	Siggri DTWS-2 points (N)	30	120				WHT	5	10
3		Siggri pt-I	123	29	23.58	94	Siggri DTWS-2 points (N)	30					FIS, Line Canal	64	70
4		Pukhripara	91	25	27.47	66	Pukhripara DTWS (1 point)(N)	30	60				DTW, WHT	36	75
5		Besorkona	98	15	15.31	83	Besorkona DTWS (1 point)(N)	30	60				DTW	53	120
6		Dwinapara pt-I	70	15	21.43	55	Dwinapara DTWS (2 points)(N)	30	120				DTW	25	60
7		Dwinapara pt-II	64	16	25	48	Dwinapara DTWS (2 points)(N)	30					DTW	18	50
8		Lahapara-Batapara	58	6	10.34	52	Darsi FIS(R)	50	100				WHT	2	5
9		Gobal	57	6	10.53	51							FIS	51	60
10		Dhokapara	97	22	22.68	75	Dhokapara DTWS (1 point)(N)	30	60				DTW, STW	45	75

11		Ghungunvita	49	9	18.37	40	Ghungunvita DTWS-1 point)(N)	30	60				STW	10	2.5
12		Jangipara (Pt-II) (245)	47	17	36.17	30		0	0					0	0
		Sub Total	**960**	**227**	**23.65**	**733**		**350**	**700**					**353**	**557.5**
13	Dodan	Baida Pt-I	117	52	44.44	65	Baida DTWS (2 points)	30	120				FIS	35	40
14		Baida pt-II	121	45	37.19	76	Baida DTWS (2 points)	30					FIS	46	50
15		Satabari pt-I	107	107	100	0		0					_	0	0
16		Satabari pt-II	108	80	74.07	28		0					STW	28	7
17		DipkaiPt-I	101	22	21.78	79	Dipkai DTWS 1-point(N)	30	60				FIS, STW	49	60
18		DipkaiPt-II	97	30	30.93	67							FIS, WHT	67	70
19		Salpara	103	46	44.66	57	Salpara DTWS (1 point)(N)	30	60				FIS	27	35
20		Hatisila Rabhapara	93	18	19.35	75	Hatisila Ransaipara DTWS (1 point)(N)	30	60				DTW & WHT	45	95
21		kurung	90	12	13.33	78	Kurung DTWS (1 point)(N)	30	60				FIS, WHT	48	70
22		Dhaparvita	87	22	25.29	65	Dhaparvita DTWS (1 point)(N)	30	60				STW	35	9
23		Moghosalpara	91	22	24.18	69	Moghosalpara DTWS (1 point)(N)	30	60				DTW & WHT	39	80
24		Mogho	89	12	13.48	77							STW, Line Canal	77	70
25		Lemokona	104	45	43.27	59	Lemokona DTWS (1 point)(N)	30	60				FIS	29	60
26		Mogho pt-III	116	46	39.66	70		0					STW, WHT	70	65
27		Mogho pt-II	103	52	50.49	51		0					STW, WHT	51	40
28		Balasari	97	27	27.84	70	Balasari DTWS (1 point)(N)	30	60				DTW, WHT	40	70
29		Phakirmara	89	7	7.865	82	Phakirmara DTWS (1 point)(N)	30	60				FIS, WHT	52	80

30		Maladhara Pt-I	92	12	13.04	80	Maladhara DTWS (1 point)(N)	30	60				DTW,RCC Check Dam	50	90
31		Maladhara Pt-II	89	10	11.24	79		0					STW, WHT	79	80
32		Kisimkali	93	7	7.527	86		0					STW, WHT	86	75
		Borjhora Pt-I	120					0					_	0	0
33		Nihalivita	83	10	12.05	73		0	0				STW, WHT	73	60
		Sub Total	**2070**	**689**	**33.29**	**1381**		**360**	**720**					**1026**	**1206**
34	Dhamor	Hatogaon Part-I	115	8	6.957	107	Hatogaon DTWS (4 points)(N)	60	240				FIS, STW	47	80
35		Hatogaon Part-II	116	6	5.172	110	Hatogaon DTWS (4 points)(N)	60					FIS, STW	50	60
36		Dhamor Reserve	100	28	28	72	Jurigaon FIS (O) & Dhamar DTWS-2pt.(N)	70	180				WHT	2	5
37		Dhamor Beel	110	32	29.09	78	Jurigaon FIS (O) & Dhamar DTWS-2pt.(N)	70					STW	8	2
38		Medhipara part-I	175	30	17.14	145	Medhipara DTWS-4 points(N)	60	240				DTW, WHT	85	80
39		Medhipara part-II	155	16	10.32	139	Medhipara DTWS-4 points(N)	60					DTW, WHT	79	165
40		Nidanpur part-II	215	76	35.35	139	Nidanpur part DTWS-3 pt.(N)	90	180				DTW, RCC Check Dam	49	100
		Sub Total	**986**	**196**	**19.88**	**790**		**470**	**840**					**320**	**492**
41	Bapurvita	Bapurvita Part-I	145	55	37.93	90	Jurigaon FIS (O)	90	-					0	0
42		Bapurvita Part-II	195	42	21.54	153	Jurigaon FIS (O)	110					STW	43	11
43		Bapurvita Part-III	135	24	17.78	111	Jurigaon FIS (O)	100					STW	11	2.5
44		Jurigaon	135	30	22.22	105	Jurigaon FIS (O)	100					WHT	5	10
45		Hatishila	133	33	24.81	100	Jurigaon FIS (O)	80					STW	20	5
46		Boalmari	160	28	17.5	132	Jurigaon FIS (O)	90					STW	42	10.5
		Sub Total	**903**	**212**	**23.48**	**691**		**570**	**0**					**121**	**39**

47	Jayramkuchi	Panisali	150	32	21.33	118	Panisali DTWS 2 pt.(N)	60	120				DTW, WHT	58	85
48		Baistonpara	75	20	26.67	55	Baistonpara DTWS(N)	30	60				DTW, WHT	25	75
49		Thorko	75	22	29.33	53	Thorko DTWS 1-pt.(N)	30	60				DTW, WHT	23	85
50		Bamunduba	150	32	21.33	118	Coibari FIS(N)	80	1500				STW, WHT	38	60
51		Rangduba	100	18	18	82	Coibari FIS(N)	70					STW	12	3
52		Chaibari	150	36	24	114	Coibari FIS(N)	90					STW	24	6
53		Joyramkuchi	150	52	34.67	98	Joyramkuchi DTWS 1-pt(R)&2-pt.(N)	70	140				DTW, WHT	28	65
54		Krishnopur	100	9	9	91		0					STW, WHT, Check Dam	91	95
55		Nayapara	100	8	8	92		0					STW, WHT, Check Dam	92	95
56		Nalbari	100	32	32	68	Coibari FIS(N)	52	-				STW	16	4
57		Abirampura	100	33	33	67		0					STW, FIS	67	80
		Jhajipara Pt-I	24					0					_	0	0
58		Kulamuwa	100	93	93	7		0	0				STW	7	1.5
		Sub Total	**1350**	**387**	**28.67**	**963**		**482**	**1880**					**481**	**654.5**
59	Faringapara	Faringapara	142	116	81.69	26	Faringapara DTWS(N)	20	40				STW	6	1.5
60		Hothotia	97	72	74.23	25	Hothotia DTWS (N)	20	40				STW	5	1.5
61		Polashkandi	86	64	74.42	22	Polashkandi DTWS(N)	20	40				STW	2	0.5
62		Balipara	92	70	76.09	22	Balipara DTWS(N)	20	40				STW	2	0.5
63		Domoni	82	58	70.73	24	Domoni DTWS(N)	20	40				STW	4	1
64		Shilapani	98	80	81.63	18		0					STW	18	4.5
65		Nikharipara	138	116	84.06	22	Nikharipara DTWS(N)	20	40				STW	2	0.5
66		Paschim Simulbari	91	74	81.32	17		0					STW	17	4

67		Madhya Simulbari	84	70	83.33	14		0	0				STW	14	3.5
		Sub Total	**910**	**720**	**79.12**	**190**		**120**	**240**					**70**	**17.5**
68	Rowkhowa	Ballapuri	140	86	61.43	54							STW & Solar Pump	54	80
69		Bororchar	135	82	60.74	53							STW & Solar Pump	53	80
70		Salmara	125	76	60.8	49							STW & Solar Pump	49	80
71		Kistomoni	86	54	62.79	32							STW & WHT	32	70
72		Thailapara	180	110	61.11	70							STW & WHT	70	90
73		Singulipara	291	148	50.86	143							STW & WHT	143	110
74		Lotibari	120	68	56.67	52							STW & WHT	52	80
75		Fershatari	86	54	62.79	32							STW & WHT	32	70
76		Jamiarabbari	92	56	60.87	36							STW & WHT	36	75
77		Niz-Bogoribari	98	36	36.73	62							STW & WHT	62	90
		Sub Total	**1353**	**770**	**56.91**	**583**		**0**	**0**					**583**	**825**
78	Aolatoli	Aolatoli	118	92	77.97	26	Aolatoli DTWS(N)	20	40				STW	6	1.5
79		Niz-Kurshakati	86	64	74.42	22	Niz-Kurshakati DTWS(N)	20	40				STW	2	0.5
80		Kurshakati	95	74	77.89	21	Kurshakati DTWS(N)	20	40				STW	1	0.5
81		Pub-Simulbari	82	52	63.41	30	Pub-Simulbari DTWS(N)	20	40				STW	10	2.5
82		Sonamuyee	102	80	78.43	22	Sonamuyee DTWS(N)	20	40				STW	2	0.5
83		Baniyapara	98	72	73.47	26	Baniyapara DTWS(N)	20	40				STW	6	1.5
84		Meservita	82	60	73.17	22	Meservita DTWS(N)	20	40				STW	2	0.5
85		Sonalurtol	69	52	75.36	17							STW	17	4
86		Bordol	76	56	73.68	20	Bordol DTWS(N)	20	40					0	
87		Kaziputa	68	28	41.18	40	Kaziputa DTWS(N)	30	60				STW	10	2.5
		Sub Total	**876**	**630**	**71.92**	**246**		**190**	**380**					**56**	**14**
88	Kalsabhan	Bamuneralga	505	60	11.88	445							Solar Pump & STW	445	111
89		chalakura	395	60	15.19	335							Solar Pump & STW	335	83

90		killahara	397	60	15.11	337							Solar Pump & STW	337	84
		Sub Total	**1297**	**180**	**13.88**	**1117**								**1117**	**278**
91	Chunari	Khudra poitary	160	100	62.5	60	Joybhum LIS(O)	57	50				STW	3	1
92		Joybhum	185	110	59.46	75	Joybhum LIS(O)	75						0	
93		Lezam	170	130	76.47	40	Lezam LIS (N)	30	275				STW	10	2.5
		Puthimari	120	28	23.33	92	Lezam LIS (N)	50					STW	42	10.5
94							Puthimari DTWS(N)	30	60					0	
		Kasima	140	40	28.57	100	Lezam LIS (N)	30	-				STW	10	2.5
95							Kasima DTWS 2-pt.(N)	60	120					0	0
		Sub Total	**775**	**418**	**53.94**	**357**		**332**	**505**					**65**	**16.5**
96	Saktola	Bhoismari	100	52	52	48	Bhoismari DTWS(N)	30	60				STW	18	4.5
97		Boropoitari	130	96	73.85	34	Joybhum LIS(O)	34	-				STW	0	0
98		Sworipoitari	150	80	53.33	70	Sworipoitari DTWS 2-pt.(N)	60	120				STW	10	2.5
99		Mothabari	120	86	71.67	34	Joybhum LIS(O)	34	-					0	0
100		Saktola	180	140	77.78	40	Saktola DTWS(N)	20	40				WHT	20	50
101		Khonarpulapar	120	100	83.33	20	Khonarpulapar DTWS(N)	20	40					0	0
102		Chaklabeel	110	72	65.45	38	Chaklabeel DTWS(N)	20	40				STW	18	4.5
		Sub Total	**910**	**626**	**68.79**	**284**		**218**	**300**					**66**	**61.5**
	Grand Total>>>>>		**12390**	**5055**	**40.8**	**7335**		**3092**	**5565**	**0**	**0**	**0**		**4258**	**4162**

Name of the District : Goalpara

Name of the Block : Kharmuja

Sl. No.	Name of the GP	Name of the Village	Net Crop Area	Existing potential(Ha)	% of Irrigated area at present	Balance Area to be covered(Ha)	Proposed by Irrigation Deptt.			Proposed by Char Dev.Deptt.			Proposed by Agriculture Deptt.			Proposed Total Area to be Irrigated(Ha)	Amount (Rs.)in L
							Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L		
1	Khankhowa	Nunkhowapara part-i	120	23	19.17	97							STW	97	24	97	
2		Nunkhowapara part-ii	90	13	14.44	77							STW	77	19	77	
3		Nunkhowapara part-iii	90	12	13.33	78							STW	78	19	78	
4		Vashanipra part-i	100	17	17	83							STW	83	20.5	83	
5		Vashanipra part-ii	80	20	25	60							STW	60	14.5	60	
6		Disingpara part-i	90	23	25.56	67							STW & Solar Pump	67	17.5	67	
7		Disingpara part-ii	110	19	17.27	91							STW & Solar Pump	91	25	91	
8		Helengachar	140	31	22.14	109							STW	109	26.5	109	
9		Helengachar MC	200	46	23	154							STW	154	38	154	
10		South Katlamari	220	64	29.09	156							STW	156	38.5	156	

11		Sader Alga	160	30	18.75	130							STW	130	32.5	130	
		Sub Total	**1400**	**298**	**21.29**	**1102**		**0**	**0**					**1102**	**275**	1102	
12	Boguan	Palashbari	200	160	80	40	Baguan DTWS (R)	15	20				STW	25	6.5	40	
13		Chinabari	220	50	22.73	170	Chinabari DTWS(O)	30	60				STW	140	35	170	
14		Haldhibari	180	60	33.33	120	Baguan DTWS (Baruapara)(O)	20	60				STW	77.5	25	120	
15		Chatamari	170	90	52.94	80		0					STW	80	20	80	
16		S-Boguan	135	34	25.19	101	Baguan DTWS (R)	5	-				STW	56	14	101	
17		Borboguan	130	20	15.38	110	Baguan DTWS (Baruapara)(O)	20	-				STW	90	22	110	
18		Muralijhar	110	50	45.45	60		0					STW	60	15	60	
19		Sabaji Baguan	113	56	49.56	57		0					_	0	0	57	
20		Narangabari	151	68	45.03	83	Narangabari DTWS(R)	30	30				STW	53	13.25	83	
21		Gerobhatkhowa	128	54	42.19	74	Gerobhatkhowa DTWS(R)	10	10				STW	6.5	1.5	74	
22		Haridra Baguan	37	16	43.24	21		0					STW	21	5	21	
23		Nachanipara	6	6	100	0		0	0				_	0	_	0	
		Sub Total	**1580**	**664**	**42.03**	**916**		**130**	**180**					**609**	**157.25**	916	
19	Bashbari	Darirpar	180	166	92.22	14		0					STW	14	3.5	14	
20		Motilalpara	230	143	62.17	87	Motilalpara DTWS 2pt.(N)	60	120				STW	27	6.5	87	
21		Chengpata	150	133	88.67	17							STW	17	4	17	
22		Dhumbhandha	190	121	63.68	69	Dhumbandha DTWS 2pt.(N)	60	120				STW	9	2.5	69	
23		Chakla	215	85	39.53	130	Chakla DTWS 3pt.(N)	90	180				STW	40	10	130	
24		Bangaljhar	225	130	57.78	95	Bangalljhar DTWS 3pt.(N)	90	180				STW	0	0	95	
25		Pakhretary	130	60	46.15	70	Pakhretari DTWS 2pt.(N)	60	120				STW	10	2.5	70	
26		Arabandha	105	50	47.62	55		0	0				STW	55	13.5	55	
		Sub Total	**1425**	**888**	**62.32**	**537**		**360**	**720**					**172**	**42.5**	537	

27		Kadotika	250	150	60	100	Kodalkati-Kadotika DTWS(N)&AMBARI PUB DTWS(N)&Kadotika Pachim DTWS 1pt(N)	90	150				STW	10	2.5	100	
28	Ambari	Ambari	230	104	45.22	126	Ambari DTWS(R)& 2 pt(N)	120	180				STW	6	1.5	126	
29		Solmari	200	60	30	140	Solmari DTWS 3pt.(N)	90	180				STW	50	12.5	140	
30		Katlitari	250	130	52	120	Katlitari DTWS(R)	40	40				STW	80	20	120	
31		Kalyanpur	290	130	44.83	160	Kalyananpur DTWS 3pt(N)	90	180				STW	70	17.5	160	
32		Kodalkati-West-Konkaipar	275	190	69.09	85		0	0				STW	85	21	85	
		Sub Total	**1495**	**764**	**51.1**	**731**		**430**	**730**					**301**	**75**	731	
33	Kharmuza	Sonahara	200	63	31.5	137	Sonahara DTWS 2pt.(N)	60	120				STW	77	19	137	
34		Deudhuturi	150	28	18.67	122	Deodhutari DTWS 3 pts.(N)	90	180				FIS	32	45	122	
35		Haripur koraikhowa	112	21	18.75	91	Haripur Karaikhowa DTWS 2pt.(N)	60	120				STW	31	7.5	91	
36		Kharmuza	320	69	21.56	251	Kharmuja DTWS 2pt.(N)	60	120				STW	151	37.5	251	
37		Katlamarichar	75	36	48	39		0					STW	39	9.5	39	
38		Ramharichar p-ii	164	84	51.22	80		0					STW	80	20	80	
39		Ramharichar p-i	106	92	86.79	14		0	0				STW	14	3.5	14	
		Sub Total	**1127**	**393**	**34.87**	**734**		270	**540**					**424**	**142**	734	
40	Roumari	Roumari	195	184	94.36	11		0					STW	11	2.5	11	
41		Rakhaldubi	145	104	71.72	41	Rakhaldubi DTWS (N)	30	60				STW	11	2.5	41	
42		Chotebari	50	30	60	20		0					STW	20	5	20	
43		Balarvita	70	36	51.43	34	Balarvita DTWS (N)	30	60				STW	4	1	34	

44		Abravita	135	64	47.41	71		0					STW	71	17.5	71	
45		Kakarvita	80	50	62.5	30		0					STW	30	7.5	30	
46		Gandaguri	25	8	32	17		0					STW	17	4	17	
47		Dosurakora	17	6	35.29	11		0					STW	11	2.5	11	
48		Nolonga	75	52	69.33	23		0	0				STW	23	5.5	23	
		Sub Total	**792**	**534**	**67.42**	**258**		**60**	**120**					**198**	**48**	258	
49	Ramharichar	Ramharichar	220	63	28.64	157							STW	157	39	157	
50		Tiapara	300	132	44	168							STW	168	41	168	
51		Kaladanga East	300	96	32	204							STW	204	50.5	204	
52		Kaladanga west	250	102	40.8	148							STW	148	36	148	
53		Houzuri char p-i	280	25	8.929	255							STW	255	63.5	255	
54		Houzuri char p-ii	50	19	38	31							STW	31	7.5	31	
		Sub Total	**1400**	**437**	**31.21**	**963**		**0**	**0**					**963**	**237.5**	963	
55	Markula	Batabari	150	150	100	0	_	0	0					0		0	
56		Markula	180	80	44.44	100	Markula DTWS 1pt.(N)	30	60				STW	70	17.5	100	
57		Pub-Konkaipar	250	130	52	120	Pub-Konkaipar DTWS(O)	30	60				STW	90	17.5	120	
58		Pandoba	160	60	37.5	100	Pandoba FIS	70	120				STW	30	7.5	100	
59		Bamundanga P-ii	120	80	66.67	40							STW	40	10	40	
60		Lampara - Muslimpara	90	40	44.44	50	Lemapara DTWS(N)	30	60				STW	20	12.5	50	
		Sub Total	**950**	**540**	**56.84**	**410**		**160**	**300**					**250**	**65**	410	
61	Nolonga	Nolonga	330	63	19.09	267	Nolonga DTWS 3pt.(N)	90	180				STW	177	31.5	267	
62		Thepkai	370	93	25.14	277	Thapkai DTWS 3pt.(N)	90	180				STW	131	46.5	277	
63		Nolonga Pahartoli Rabhapara	325	71	21.85	254		0					STW	254	63.5	254	
64		Simlibari-Junkaopara	180	130	72.22	50	Simulbari DTWS(R)	50	50				_	_	_	50	
65		Deudhuturi	220	91	41.36	129	Deudhuturi DTWS (N)	60	120				STW	24.6	12.5	129	

		Sub Total	**1425**	**448**	**31.44**	**977**		**290**	**530**					**587**	**154**	977	
	Grand Total>>>>		**11594**	**4966**	**42.83**	**6628**		**1700**	**3120**	**0**	**0**	**0**		**4606**	**1196.3**	6628	

Name of the District : Goalpara
Name of the Block : Balijana

Name of the GP	Name of the Village	Net Crop Area	Existing potential(Ha)	% of Irrigated area at present	Balance Area to be covered(Ha)	Proposed by Irrigation Deptt.			Proposed by Char Dev. Deptt.			Proposed by Agriculture Deptt.		
						Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L
Agia	Dalok	80	4	5	76		0					LLP & Drop Structure, Line Canal	76	80
	Jogona Rajbonshipara	97.06	14	14.42	83.06		0					LLP & Drop Structure, Line Canal	83.06	95
	Jogona Derek	84.93	3	3.532	81.93	Raikona Stream FIS (N)	15	40				WHT, Line Canal	66.93	95
	Duli ezira	112.3	1	0.891	111.3		0					WHT, Line Canal	111.26	120
	Tisimpur	195.1	26	13.33	169.1		0					FIS (Renovation Garojan Sluice Gate & Line Canal)	169.06	201

	Hatighopa	73.46	0	0	73.46		0					Water Shed (Check Dam\, Canal, Sunken Pond)	73.46	75
	Silsak damal	102.9	3	2.915	99.93	Silsak Damal FIS (N)	15	40				Water Shed (Check Dam\, Canal, Sunken Pond)	84.93	95
	Sapeding kota	126.8	62	48.9	64.8	Sapleng Damal DTWS (N)	40	80				Water Shed (Check Dam\, Canal, Sunken Pond)	24.8	30
	Agia Pt I	32.13	7	21.79	25.13		0					–	0	0
	Keothpara	120	6	5	114	Keotpara DTWS (N)	60	120				STW	54	60
	Bhandara	122.3	6	4.908	116.3	Bhandara DTWS (N)	60	120				–	0	0
	Gosaidhuwa	135.1	92	68.12	43.06		0					Sluice Gate Line Canal	43.06	50
	Kisoridubi	106	18	16.98	88		0					STW	88	95
	Baghmara	137	0	0	137		0					Water Shed (Check Dam\, Canal, Sunken Pond)	137	140
	Rojapara	133	3	2.256	130	Rojapara Stream FIS(N)	15	40				Water Shed (Check Dam\, Canal, Sunken Pond)	53.9	55
	Sat boini pahar	104	0	0	104		0					Water Shed (Check Dam\, Canal, Sunken Pond)	104	110

	Agia Pt II	40	13	32.5	27		0					Water Shed (Check Dam\, Canal, Sunken Pond)	27	35
	Ajagar	0	0	0	0		0	0				_	0	0
	Sub Total	**1802**	**258**	**14.32**	**1544**		**205**	**440**					**1196.5**	**1336**
Baladmari	Gobindopur	327	82	25.08	245							STW & WHT, FIS	245	90
	Hashilabil	150	68	45.33	82							STW	82	20
	Moriomnagar (Baladmari)	40	32	80	8							STW	8	2
	Notunbosti	135	43	31.85	92							STW	92	22.75
	Sub Total	**652**	**225**	**34.51**	**427**		**0**	**0**					**427**	**134.75**
Balijana	Balijana	90	16	17.78	74							STW	74	12.6
	Narayanpara	115	9	7.826	106							STW	106	18.2
	Bapupara ptI	88	7	7.955	81	Bapupara DTWS Point 1 (N)	30	50				STW	51	12
	Bapupara ptII	120	7	5.833	113	Bapupara DTWS Point 2 (N)	30	50				STW	13	3
	Kochpara	100	1	1	99	Kochpara DTWS (N)	30	50				_	0	0
	Budhipara	95	19	20	76		0					FIS	76	80
	Nichinta	108	18	16.67	90		0					STW	90	25
	Baikunthapur	85	15	17.65	70		0					STW	70	17
	Rangsapara	112	3	2.679	109	Rangsapara DTWS (N)	30	50				Drop Structure Line Canal	79	100
	Bhedaipara	80	0	0	80		0					Drop Structure Line Canal	80	80
	Dorapara	100	10	10	90	Dorapara DTWS (N)	30	50				STW	60	22

	Tokorapara	130	7	5.385	123		0					STW	123	30.5
	Rokhapara	125	35	28	90		0	0				Sluice Gate Line Canal	90	120.5
	Sub Total	**1348**	**147**	**10.91**	**1201**		**150**	**250**					**912**	**520.8**
Bardamal	Rampur	135	14	10.37	121		0					STW	121	30
	Sarapara	90	8	8.889	82	Sarapara DTWS (N)	40	80				STW	42	20
	Matia	61	3	4.918	58		0					DTW	58	14.5
	Matia Garopara	71	0	0	71		0					DTW	71	120
	Bardamal	121	6	4.959	115	Bardamal DTWS (O)	30	100				DTW	85	120
	Chahri	136	35	25.74	101		0					_	0	0
	Darani tedi para	140	22	15.71	118	Bardamal DTWS (O)	30	-				DTW & WHT	88	150
	Katholguri	91	3	3.297	88		0					DTW & WHT	88	150
	Gengamari	82	8	9.756	74		0					DTW	74	120
	Bhaishkhuli	105	6	5.714	99		0					DTW	99	180
	Nalenga pahar	56	0	0	56		0	0				FIS Fill Canal Line Canal	56	70
	Sub Total	**1088**	**105**	**9.651**	**983**		**100**	**180**					**782**	**974.5**
Bodahapur	Sijukona	78	15	19.23	63	Sijukona LIS (R)	40	150				WHT, Line Canal	23	25
	Bodahapur	95	20	21.05	75		0					WHT, Line Canal	75	80
	Rongsai	110	27	24.55	83		0					FIS	83	95
	Boro khasi khagra	69	7	10.14	62		0					WHT, Line Canal	62	70
	Baijuri	85	13	15.29	72		0					WHT	72	180
	Khukchipara	85	4	4.706	81		0					WHT	81	200
	Meghadam	98	11	11.22	87		0					WHT, Line	87	120

												Canal		
	Bordak	85	16	18.82	69	Tiapara Ajagar Stream FIS (N)	10	25				FIS	59	70
	Hatigaon	165	36	21.82	129	Hatigaon FIS (R)	129	213				_	0	0
	Barali	115	7	6.087	108	Hatigaon FIS (R)	48					Drop Structure, WHT Line Canal	4.4	10
	Gendabari	90	13	14.44	77		0					WHT, Line Canal	77	90
	Mongrai	180	11	6.111	169		0					FIS	169	180
	Choto Kasi Khagra	140	8	5.714	132		0					FIS	132	140
	Geredubi	165	4	2.424	161		0					FIS	161	170
	Kanthasibari	175	8	4.571	167	Kanthasibari DTWS (N)	30	50				FIS	137	140
	Sub Total	**1735**	**200**	**11.53**	**1535**		**257**	**438**					**1222.4**	**1570**
Dariduri	Sutki	88	14	15.91	74		0					DTW & WHT	74	140
	Sutki NC	92	17	18.48	75		0					DTW	75	120
	Dariduri	147	20	13.61	127	Dariduri DTWS (N)	60	100				DTW	67	120
	Taraibarai	73	7	9.589	66		0					DTW	10.4	120
	Makri	139	9	6.475	130		0					DTW	130	240
	Dakurvita	120	5	4.167	115		0					DTW	115	240
	Nijbarbivta	47	4	8.511	43		0					DTW	43	60
	Banirampara	58	4	6.897	54		0					DTW	54	120
	Munchinvita	69	0	0	69		0					STW	69	17.5
	Nizsotrapur	72	0	0	72		0					DTW	72	120
	Sub Total	**905**	**80**	**8.84**	**825**		**60**	**100**					**709.4**	**1297.5**

Dwarka	Dwarka Kacharipara pt II	75	14	18.67	61	Dwarka Kacharipara DTWS (N)	61	100					0	0
	Dwarka Kacharipara pt I	135	4	2.963	131							DTW	131	240
	Dwarka Rabhapara pt I	90	0	0	90							FIS Line Canal	56.7	65
	Dwarka Rabhapara pt II	80	4	5	76							FIS Line Canal	76	80
	Majai Garopara	110	12	10.91	98							DTW & FIS Line Canal	98	105
	Majai Rabhapara	125	10	8	115							DTW & FIS Line Canal	115	170
	Thakurbila	130	50	38.46	80							FIS Line Canal	80	90
	Ketekibari	140	54	38.57	86	Ketekibari DTWS (N)	30	50				FIS Line Canal	56	60
	Bokogaropara	60	0	0	60							WHT & DTW	60	120
	Lempara	85	4	4.706	81							FIS Line Canal	81	90
	Bamundanda ptI	185	6	3.243	179							DTW & WHT	179	360
	Bamundanga ptII	142	0	0	142							DTW & WHT	142	240
	Barjhara No. 1	126	0	0	126							FIS	126	150
	Satadamal	98	4	4.082	94							DTW	94	180
	Dairong	115	0	0	115							DTW	115	240
	Deuli	150	6	4	144		0	0				DTW	144	300
	Sub Total	**1846**	**168**	**9.101**	**1678**		**91**	**150**					**1553.7**	**2490**
Kaipani Chandam	Tilapara	75	16	21.33	59	Sijukona LIS (R)	20	-				WHT, Shunken Pond Line Canal, Drop Strcutre	39	57

	Kalindidoba	180	23	12.78	157		0					WHT, Shunken Pond Line Canal, Drop Strcutre	157	160
	Paglijhora	130	22	16.92	108		0					WHT, Shunken Pond Line Canal, Drop Strcutre	108	115
	Kalpani Chandamari Pt I	82	74	90.24	8		0					STW	8	2
	Kalpani Chandamari Pt II	85	63	74.12	22		0					STW	22	5
	Kokira PtI	89	36	40.45	53	Sijukona LIS (R) & Zirakona Stream FIS(N)	40	-				WHT, Shunken Pond Line Canal	13	20
	Kokira PtII	96	31	32.29	65	Sijukona LIS (R) & Zirakona Stream FIS(N)	65	40					0	0
	Kalpani	110	47	42.73	63		0					STW	63	15
	Satboinee	80	6	7.5	74		0					Water Shed (Check Dam\, Canal, Sunken Pond)	74	80
	Satboinee pahar	120	10	8.333	110		0					Water Shed (Check Dam\, Canal, Sunken Pond)	60	75
	Borbhita						0					Water Shed (Check Dam\, Canal, Sunken Pond)	0	0

	Urpad beel	95	16	16.84	79		0	0				Water Shed (Check Dam\, Canal, Sunken Pond)	45.7	50
	Sub Total	**1142**	**344**	**30.12**	**798**		**125**	**40**					**589.7**	**579**
Kalyanpur	Goraimari	186	20	10.75	166	Goraimari DTWS (R)	60	60				DTW	106	180
	Kuruabhasa	157	24	15.29	133	Kuruabhasa DTWS (R)	60	60				STW	73	18
	Bhoishkhuli	87	16	18.39	71	Bhoishkhuli DTWS (R)	30	30				_	0	0
	Dosorapara matia	100	12	12	88		0					STW	88	22
	Gandara	60	16	26.67	44		0					STW	44	11
	Gandara NC	150	4	2.667	146		0					STW	146	36.5
	Garokuta	40	4	10	36		0					STW	36	9
	Chamaguri	112	10	8.929	102		0					STW	102	25
	Solmari	70	8	11.43	62		0					STW	62	15.5
	Kalyanpur	95	12	12.63	83		0					STW	83	20
	Kalyanpur NC	85	8	9.412	77		0					STW	77	19.25
	Jongal block pt I	75	4	5.333	71		0					DTW	71	120
	Jongal block pt II	100	4	4	96		0					DTW	96	180
	Bhalukdubi	180	8	4.444	172		0	0				DTW	172	360
	Sub Total	**1497**	**150**	**10.02**	**1347**		**150**	**150**					**1156**	**1016.3**
Kumri	Hurkakuchi, Amteka	210	67	31.9	143							STW, FIS	143	150
	Khutamari	376	87	23.14	289							FIS Line Canal	289	300
	Kharboja	43	9	20.93	34							DTW	34	60
	Pancharatna	40	8	20	32							DTW	32	60

	Pancharatna NC	45	17	37.78	28							DTW	28	60
	Paglartek	18	1	5.556	17							Line Canal	17	25
	Sub Total	**732**	**189**	**25.82**	**543**		**0**	**0**					**543**	**655**
Geand Total>>>>>		**12747**	**1866**	**14.64**	**10881**		**1138**	**1748**	**0**	**0**	**0**		**9091.7**	**10574**

Name of the District : Goalpara

Name of the Block : Matia

Sl. No.	Name of the GP	Name of the Village	Net Crop Area	Exsiting potential(Ha)	% of Irrigated area at present	Balance Area to be covered(Ha)	Proposed by Irrigation Deptt.			Proposed by Char Dev. Deptt.			Proposed by Agriculture Deptt.			Proposed Total Area to be Irrigated(Ha)	Amount (Rs.)in L
							Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L		
1	KARIPARA	KARIPARA PT-I	121	14	11.57	107	KARIPARA DTWS(O)	30	–				FIS, STW, WHT	77	90	107	
2		KARIPARA PT II	103	16	15.53	87	KARIPARA PT II DTWS(N)	60	120				FIS	27	35	87	
3		KARIPARA PT III	187	36	19.25	151	KARIPARA PT III DTWS(N)	60	120				FIS	91	95	151	
4		KARIPARA PT IV	213	22	10.33	191	Sipina DTWS (O)	30	–				FIS	116.6	120	191	
5		SARAPARA	212	33	15.57	179	SARAPARA DTWS(N)	60	120				STW, WHT, Ring-Well	119	90	179	

6		RABHAPARA	86	23	26.74	63	Rabhapara DTWS (N)	30	60				STW	33	9	63	
		Sub Total	**922**	**144**	**15.62**	**778**		**270**	**420**					**463.6**	**439**	778	
7	MATIA	EAST MATIA	150	70	46.67	80	East Matia DTWS (N)	30	60				–	0	0	80	
8		WEST MATIA	330	60	18.18	270	West Matia DTWS (N)	30	60				LIS	240	250	270	
9		BAMUNPARA	170	30	17.65	140	BAMUNPARA DTWS(N)	30	60				STW	110	30	140	
		Sub Total	**650**	**170.5**	**26.23**	**479.5**		**90**	**180**					**350**	**280**	490	
10	SIDHABARI	RANUA	113	100	88.5	13	_	0	0					0	0	13	
11		SIDHABARI PT I	127	50	39.37	77	SIDHABARI PT I DTWS(N)	60	120					0	0	77	
12		SIDHABARI PT II	135	30	22.22	105	SIDHABARI PTII DTWS(N)	60	120				DTW, WHT	45	95	105	
13		NAYAPARA PT I	124	100	80.65	24	NAYAPARA PT I DTWS(N)	24	60					0	0	24	
14		NAYAPARA PT II	113	63	55.75	50	Bahati LIS(R)	50						0		50	
15		BAHATI PT I	121	95	78.51	26	Bahati LIS(R)	26	110				–	0	–	26	
16		BAHATI PT II	106	75	70.75	31	Bahati LIS(R)	31					–	0	–	31	
		Sub Total	**839**	**513**	**61.14**	**326**		**251**	**410**					**45**	**95**	**326**	
17	DOLGOMA	DOLGOMA	165	90	54.55	75	Dolgoma Kadomtola DTWS(R)	75	205				–	–	–	75	
18		GOSAIBORI	203	90	44.33	113	GOSAIBORI DTWS(R)	80	80				DTW, WHT	33	65	113	

19		KADAMTOLA GOPALPUR	312	110	35.26	202	Dolgoma Kadomtola DTWS(R)	130	_				STW	72	18	202	
		Sub Total	**680**	**290**	**42.65**	**390**		**285**	**285**					**105**	**83**	390	
20	BAKAITARI	BAKAITARI PT I	109	10	9.174	99	BAKAITARI DTWS(R)	60	90				WHT, Drip Irrigation , Ring Well	0	0	99	
21		BAKAITARI PT II	91	40	43.96	51	Sidhabari-BAKAITARI DTWS(R)	30	30					0	0	51	
22		BAKAITARI PT III	101	30	29.7	71	BAKAITARI DTWS(R)	30	-				STW	3	1	70.8	
23		GUNIALGURI	131	30	22.9	101	Sidhabari-GUNIALGURI DTWS(R)	30	30				STW	71	17	101	
24		KHOLAIPARA	126	20	15.87	106		0					STW	106	26.5	106	
25		KURUABORI	147	10	6.803	137		0	0				STW	137	34	137	
		Sub Total	**705**	**140**	**19.86**	**565**		**150**	**150**					**317**	**78.5**	564.8	
26	BUDUCHAR	BUDUCHAR Pt I	213	120	56.34	93	Matia LIS-Sidlibeel pt.(R)	20	40				STW	73	18	93	
27		BUDUCHAR NC	113	74	65.49	39	Matia LIS-Sidlibeel pt.(R)	20					STW	19	4.5	39	
28		MAMUDPUR Pt I	127	80	62.99	47	Namudpur Pt I DTWS (N)	30	60				STW	17	11.5	47	
29		MAMUDPUR Pt II	119	60	50.42	59	Namudpur Pt II DTWS (N)	30	60				STW	29	14.5	59	
30		BORBALUPARA	109	60	55.05	49							STW	49	12.5	49	
31		SHINGIMARI CK	189	70	37.04	119							STW	119	30	119	
32		BASANTAPUR NC	126	54	42.86	72							STW & Solar Pump	72	18	72	

33		BASANTAPUR CHAR	198	50	25.25	148		0	0				STW & Solar Pump	148	37	148	
		Sub Total	**1194**	**568**	**47.57**	**626**		**100**	**160**					**526**	**146**	626	
34	NOBAGOTA SIMLITOLA	POKALAGI	119	40	33.61	79	POKALAGI DTWS(N)	19	60				–	0	0	79	
35		GAROMARI	103	18	17.48	85	GAROMARI DTWS(N)	30	60				STW	55	14	85	
36		VERVERI	156	74	47.44	82	Ververi DTWS(N)	30	60				STW	52	13	82	
37		SUTARPARA	131	30	22.9	101	SUTARPARA DTWS (O)	30	–				STW	71	18	101	
38		SUTARPARA NC	80	32	40	48		0					STW	48	12	48	
39		SINGRAMARI	91	34	37.36	57	Singamari DTWS	30	60				STW	27	6.5	57	
40		BALAPARA	86	40	46.51	46	Balapara DTWS (N)	30	60				STW	16	4	46	
41		SINGRAMARI RIVER BANK	137	54	39.42	83							STW & Solar Pump	83	20	83	
42		BOHATI CHAR	81	60	74.07	21							STW	21	5	21	
43		BOHATI NC	91	70	76.92	21							STW & Solar Pump	21	5	21	
44		GARUPURATARI	80	50	62.5	30							STW	30	7.5	30	
45		N.SIMLITOLA Pt I	100	70	70	30							STW	30	7.5	30	
46		N.SIMLITOLA Pt II	191	100	52.36	91							STW	91	22.5	91	
47		N.SIMLITOLA	241	110	45.64	131		0	0				STW	131	32	131	
		Sub Total	**1687**	**782**	**46.35**	**905**		**169**	**300**					**676**	**167**	905	
48	SRI SURJAYG	DEKDOWA	487	30	6.16	457	DEKDOWA DTWS(N)	60	120				STW, WHT	366.1	154	457	
49		PAHARSINGPARA	295	0	0	295							STW, WHT	254.6	120	295	

50		DUBAPARA	397	59.13	14.89	337.87							STW	309.97	78	337.87	
51		BHATIPARA	321	28	8.723	293	Bhatipara DTWS (N)	30	60				STW	252.5	63	293	
52		TINKONIAPARA	281	24	8.541	257							STW	257	64.5	257	
54		UZIRAR CHAR	301	0	0	301							STW & Solar Pump	301	24.5	301	
55		UZIRAR CHAR NC	409	0	0	409							STW & Solar Pump	408.95	102	409	
56		DASABHUJA	216	16	7.407	200							STW & Solar Pump	196.9	49	200	
57		RAKHYASINI	200	40	20	160		0	0				STW, WHT	137	34.5	160	
		Sub Total	**2907**	**138**	**4.747**	**2769**		**90**	**180**					**2484.02**	**689.5**	**2709.87**	
59	MORNOI	MORNOI	149	0	0	149	Mornoi DTWS(N)	30	60				STW	119	30	149	
60		DAKAIDOL	186	59.15	31.8	126.85	DAKAIDOL DTWS(N)	60	120				STW	62.85	15.5	126.85	
61		MONAKOCHA	197	5	2.538	192	MONAKOCHA DTWS(N)	60	120				STW	132	33	192	
62		DAHIKATA	205	118.3	57.71	86.7	Pahlanpara LIS(R) &Tinthengia-Rajapara DTWS(R)	65	125				STW	7.7	1.5	86.7	
63		GUJIAJANI	203	25	12.32	178	Pahlanpara LIS(R) &Tinthengia-Rajapara DTWS(R)	60					STW	18	4.5	178	
		Sub Total	**940**	**39**	4.149	**901**		**275**	**425**					**339.55**	**84.5**	732.55	
65	RI MU	Tengabari	150	0	0	150		0					DTW	133.5	240	150	

66		Lalabari	301	59.15	19.65	241.85	Lalabari DTWS(N)	30	60				DTW, WHT	204.6	360	241.85	
67		Harimura	501	0	0	501	Harimura DTWS(O) & Jinari FIS (O)	430	50				DTW, WHT	14.2	145	501	
73		Moijonga	391	0	0	391	Jinari FIS (O)	123	200				DTW, WHT	230.8	450	391	
69		Rakhasini Garopara Pt-I	121	0	0	121		0					DTW	42.5	60	121	
70		Rakhasini Jhar Pt-I	186	0	0	186		0					DTW, WHT	161.62	300	186	
71		Rakhasini Garopara Pt-II	191	0	0	191	Rakhasini Garopara Pt II DTWS(N)	30	60				DTW, WHT	157	385	191	
72		Rakhasini Jhar Pt-II	201	0	0	201		0					DTW, WHT	172.55	350	201	
68		Khamarpakhri	106	59.15	55.8	46.85	–	0	0				–	0	0	46	
74		Faturipara	198	0	0	198	Faturipara DTWS (N)	30	60				DTW, WHT	134.1	300	198	
		Bhojmala	179	150.8	84.23	28.22	–	0	0				–	0	0	28.2	
		Sub Total	**2525**	**269.1**	**10.66**	**2255.9**		**643**	**430**					**1250.87**	**2590**	2255.05	
	BALADMARI CHAR	Baladmari Char Pt. I	395	0	0	395							STW	395	98	395	
		Baladmari Char Pt. II	352	0	0	352	Baladmari Char Pt. II DTWS(N)	60	120				STW	255.3	63	352	
		Baladmari Char	91	0	0	91							STW	41.2	10	91	

		Pt. III														
		Baladmari Char Pt. IV	87	0	0	87						STW	65.6	16	87	
		Helapakhiri	67	0	0	67	Helapakhiri DTWS (N)	30	60				STW	6.1	1.5	67	
		Darogaralga	54	0	0	54		0	0				_	0	0	54	
		Sub Total	**1046**	**0**	0	**1046**		**90**	**180**					**763.2**	**188.5**	1046	
		Grand Total>>>>	**14095**					**2413**	**3120**					**7320.24**	**4841**	10823.27	
																0	

Name of the District : Goalpara

Name of the Block : Rongjuli

Sl. No.	Name of the GP	Name of the Village	Net Crop Area	Exsiting potential(Ha)	% of Irrigated area at present	Balance Area to be covered(Ha)	Proposed by Irrigation Deptt.			Proposed by Char Dev. Deptt.			Proposed by Agriculture Deptt.		
							Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L	Name of Scheme	Area to be covered (ha)	Amount (Rs.)in L
1	Simlitola	Kankata	203	80	39.41	123							DTW	26	60
2		Simlitola	190	12	6.316	178	Simlitola DTWS(R)	30	30				DTW & WHT	148	260
3		Hepsapara	125	20	16	105							_	0	0
4		Gerua	142	50	35.21	92							FIS	92	100
5		Domnapara	160	24	15	136							_	0	0

6		Kuchdhowa Sesa pani PT-II(Jiyaguri)	101	60	59.41	41							_	0	0
7		Kamarpota(Hepsapara)	140	4	2.857	136	Kumarputna DTWS(O)	30	60				DTW & WHT	106	200
8		Nepalipara(Gerua)	170	16	9.412	154							DTW	154	300
9		Borbori	154	10	6.494	144							WHT	7	15
10		Domnapara	128	14	10.94	114							DTW & WHT	114	200
****	****	**Sub Total**	**1513**	**290**	**19.17**	**1223**	****	**60**	**90**	****	****	****	****	**647**	**1135**
11	Kahibari	Ghagramaoramari	120	100	83.33	20	Bhalukjuli FIS(R)	65	125					0	
12		Kahibarigarupara	123	10	8.13	113							DTW & WHT	113	200
13		Bhalukjuli	99	88	88.89	11	Bhalukjuli FIS(R)	60	_				_	0	0
14		Hikiajuli(Sikiajuli)	79	4	5.063	75							FIS	41	50
15		Bagan pub	84	2	2.381	82							DTW	82	120
16		Simlitola T state	87	4	4.598	83							DTW	83	120
17		Forest kankata	52	8	15.38	44							FIS	44	50
18		Kankata pt -II	60	6	10	54							DTW	54	120
19		Kahibari pt-II	300	148	49.32	152.04							DTW	152.04	300
20		Arlibari	72	4	5.556	68		0	0				DTW & WHT	68	140
****	****	**Sub Total**	**1076**	**234**	**21.75**	**842**	****	**125**	**125**	****	****	****	****	**637.04**	**1100**
21	Rongjuli	Belpara	100	2	2	98	Belpara FIS (N)	98	200					0	
22		Kayasthapara	235	4	1.702	231	Kayasthapara FIS(N)	90	180				FIS Check Dam	117	125

23		Rawmari-Adopara	245	54	22.04	191	Rowmari FIS (N)	90	180				FIS Check Dam	67	75
24		Sarderpara	220	54	24.55	166		0					FIS Check Dam	166	175
25		Sarapara	210	64	30.48	146		0					FIS Check Dam	146	155
26		Baniyapara	189		0	189	Doshimapara FIS (N)	100	200				FIS Check Dam	89	95
27		Thakuriapara	250		0	250	Rongrona FIS (R)	240	-				WHT	10	25
28		Sonalipara	205		0	205							DTW	205	360
29		Mahajanpara	285	2	0.702	283	Mahajanpara FIS(N), Rongjuli DTWS(O)Rongjuli FIS (N)	230	460				FIS Check Dam	53	60
30		Bomrapara	210		0	210		0					FIS Check Dam	210	220
31		Sarapara	185	4	2.162	181	Sarapara FIS (N)	120	240				FIS Check Dam	61	70
32		Panditpara	160										FIS Check Dam	160	170
33		Hadipara	165										FIS Check Dam	165	170
34		Sutarpara	75										FIS Check Dam	75	85
35		Adopara	92										FIS Check Dam	92	100
36		Bakhrapur Pt-I											FIS Check Dam	0	0
37		Dosima	85										FIS Check Dam	51	60
38		Rangjuli Garopara	100										FIS Check Dam	100	110
39		Buraburigaon	95					0	0				FIS Check Dam	95	100
		Sub Total	**3106**	**184**	**5.924**	**2922**		**968**	**1460**					**1862**	**2155**

40	Tiplai	Garuchatka I	228	215	94.3	13	Padupara FIS(N)	13	-				_	0	0
41		Garuchatka II	179	100	55.87	79	Padupara FIS(N)	79	-				_	0	0
42		Barpather	169	45	26.63	124		0					DTW & WHT	124	250
43		Patharguri	190	83	43.68	107		0					DTW & WHT	107	220
44		Bongaon	180	90	50	90	Bongaon DTWS 2 Points (N) & Padupara FIS(N)	90	120				_	0	0
45		Bhakatpara	210	40	19.05	170		0					DTW & WHT	170	350
46		Bamunigaon	120	20	16.67	100		0					DTW & WHT	100	190
47		Patpara	145	10	6.897	135	Bamunigaon DTWS 2 pts(R)	30	60				DTW & WHT	105	215
48		Kathorbori	142	4	2.817	138	Bamunigaon DTWS 2 pts(R)	30					DTW & WHT	108	220
49		Diglibori	125	8	6.4	117		0					DTW & WHT	117	245
50		Citalmari	129	4	3.101	125		0	0				DTW & WHT	125	250
		Sub Total	**1817**	**619**	**34.07**	**1198**		**242**	**180**					**956**	**1940**
51	Dhanubhanga	Madang	220	0	0	220	Prasaddhuwa FIS(N)	150	300				Drip Irrigation	70	100
52		Dhontola	200	6	3	194							DTW & WHT	194	390
53		Dakowakata	198	0	0	198							FIS Check Dam	198	205
54		Pukhuripari	140	4	2.857	136							FIS Check Dam	136	140
55		Golianpara	142	2	1.408	140							FIS Check Dam	140	145
56		Bamunpara	168		0	168							FIS Check Dam	168	175
57		Jolapara	140	4	2.857	136							FIS Check Dam	136	145

58		Phokirpara	169	2	1.183	167							FIS Check Dam	167	175
59		Betabari	147	0	0	147							FIS Check Dam	147	155
60		deodhavita	120	2	1.667	118							FIS Check Dam	118	125
61		Bakharapara	180	0	0	180							FIS Check Dam	180	190
62		Awoimari	196	0	0	196							FIS Check Dam	162	170
63		Baliharpara	130										FIS Check Dam	130	140
64		Gathiapara	67										FIS Check Dam	67	75
65		Gossaibari	60										FIS Check Dam	60	70
66		Tilapara-Nowapara	98										FIS Check Dam	98	105
67		Agam	92										FIS Check Dam	92	100
68		Suradol	16										FIS Check Dam	16	25
69		Daluabari	28										FIS Check Dam	28	35
70		Bengduba	61										FIS Check Dam	61	70
71		Dhanubhanga	66										FIS Check Dam	36	45
72		Patpara Pt-II	103										FIS Check Dam	79	90
73		Patpara Pt-III	165										FIS Check Dam	141	150
74		Letkupara	23					0	0				FIS Check Dam	23	30
****	****	**Sub Total**	**2929**	**20**	**0.683**	**2909**	****	**150**	**300**	****	****	****	****	**2647**	**3050**
75	Ambari	Ambari pt I	102	60	58.82	42	Deosila FIS (R) & Padupara FIS (N)	30	195				WHT	12	30

76		Ambari pt II	115	105	91.3	10	Deosila FIS (R) & Padupara FIS (N)	10						0	0
77		Ambari pt III	200	120	60	80	Deosila FIS (R) & Padupara FIS (N)	80						0	0
78		Khekapara	155	90	58.06	65	Deosila FIS (R) & Padupara FIS (N)	11						0	0
79		Gathiapara	125	115	92	10	Deosila FIS (R) & Padupara FIS (N)	10						0	0
80		Dhontola	140	111	79.29	29	Deosila FIS (R) & Padupara FIS (N)	29						0	0
81		Padupara	209	41	19.62	168	Padupara FIS (N)	168	2370					0	0
82		Chelabari	150	13	8.667	137		0					DTW & WHT	137	280
83		Ulubari	147	50	34.01	97		0					DTW & WHT	97	195
84		Palsa	165	7	4.242	158		0					DTW & WHT	158	320
85		Simlabari	151	15	9.934	136	Padupara FIS (N)	136	0					0	0
		Sub Total	**1659**	**727**	**43.82**	**932**		**474**	**2565**					**404**	**825**
86	Dhupdhara	Dighali pt I	185	54	29.19	131		**0**					DTW & WHT	131	265
87		Dighali pt II	170	56	32.94	114		**0**					DTW & WHT	114	220
88		Dighali pt III	130	35	26.92	95		**0**					DTW & WHT	95	190
89		Maslum	150	40	26.67	110		**0**					DTW & WHT	110	230
90		Jogipara	225	45	20	180	Jogipara DTWS(N)	30	60				DTW	150	360
91		Ambari pt 4	220	45	20.45	175		0					DTW & WHT	175	300
92		Oribari	105	46	43.81	59		0					DTW	59	120
93		Tangabari	121	27	22.3	94		0					DTW & WHT	94	190

					1										
94		Sukuniapara	105	17	16.19	88		0					DTW & WHT	88	190
95		Pipalibori	114	31	27.19	83	Pipalibari DTWS (N)	60	120				DTW	23	60
		Sub Total	**1525**	**396**	**25.97**	**1129**		**90**	**180**					**1039**	**2125**
96	Khutabari	Khutabari	345	119	34.49	226							DTW & WHT	226	460
97		Chaplai	120	47	39.17	73	Chaplai DTWS(O), Chaplai DTWS(N)-2nd pt.	60	120				WHT	13	30
98		Dhanbori	135	26	19.26	109							DTW & WHT	109	220
99		Telipara	195	33	16.92	162							DTW & WHT	162	330
100		Bardal	235	42	17.87	193							DTW & WHT	193	390
101		Ghilabari	121	14	11.57	107							DTW & WHT	107	220
102		Dolagang	198	27	13.64	171							DTW & WHT	171	350
103		Lowdoba	104	11	10.58	93							DTW & WHT	93	185
104		Matihela	139	9	6.475	130							DTW & WHT	130	265
105		Bordol Pt-II	35										_	0	0
106		Chakchaki	191	21	10.99	170							DTW & WHT	170	350
		Sub Total	**1818**	**349**	**19.2**	**1469**		**60**	**120**					**1374**	**2800**
86	Kothakuthi	Maslum pt I	185	11	5.946	174	Marki FIS (R)	170	320				WHT	4	10
87		Kothakuthi	180	21	11.67	159	Marki FIS (R)	150					WHT	9	20
88		Ambuk	160	16	10	144	Ambuk DTWS (N)	30	60				FIS Check Dam	114	120

89		Chekuwari	132	8	6.061	124							FIS Check Dam	124	130
90		Athiyabari	120	7	5.833	113							FIS Check Dam	65	70
91		Syamagaon	140	12	8.571	128							FIS Check Dam	128	135
92		Punapara	165	2	1.212	163							FIS Check Dam	163	170
93		Salpara	120	5	4.167	115							FIS Check Dam	115	120
94		Bishnupur	125	4	3.2	121							FIS Check Dam	121	125
95		Bordamal	171	4	2.339	167							FIS Check Dam	167	175
		Dumapara	66											0	0
		Sukragaon	133											0	0
		Bahbari-Amguri	140					0	**0**					0	0
		Sub Total	**1498**	**90**	**6.008**	**1408**		**350**	**380**					**1010**	**1075**
	Grand Total		**15225**	**2909**	**19.11**	**12316**		**2519**	**5400**	**0**	**0**	**0**		**10576.04**	**16205**

Horticulture and Sericulture

Proposed Irrigation Scheme for Hortiulture under PMKSY 2016-17

Sl.No.	Name of the Block	Activities	Source of Water	Target	Aprox. Estimate Cost(Rs.In Lakhs)
1	Lakhipur	Drip Irrigation	DTW, WHT	540Ha	810.00
2	Jaleswar	Drip Irrigation	STW,WHT	542 Ha	813.00
3	Kuchdhowa	Drip Irrigation	DTW, WHT, DUG Well	1000 Ha	1500.00
4	Krishnai	Drip Irrigation	DTW, WHT	800 Ha	1200.00
5	Krishnai	SPRINKLER Irrigation	TUBE WELL Over Head Tank	12 Ha	7.50
6	Rangjuli	Drip Irrigation	DTW, WHT, DUG Well	500 Ha	750.00
7	Matia	Drip Irrigation	STW	700 Ha	1050.00
8	Balijana	Drip Irrigation	DTW, SHUNKEN POND	800 Ha	1200.00
			Existing Draing Line treatement		
9	Kharmuja	Drip Irrigation	STW	100 Ha	150.00
					7480.50

Proposed Irrigation Scheme for Sericulture under PMKSY 2016-17

Sl. No.	Block	Name of the Scheme	Activities	Area(Ha)	Apox. Estimate Cost(Rs. in Lakhs)
1	Balijana	Govt. Sericulture Farm	Drip Irrigation	8.6	10.00
		Collective Mulberry Garden	Drip Irrigation	3.2	3.75
2	Rangjuli	Collective Mulberry Garden, Ambuk	Drip Irrigation	3.3	4.00
		Collective Mulberry Garden, Budlung		2.6	3.00
		Govt. Eri Seed Grainage, Dhanubhanga		3.7	4.25
		Eri Concentration, Rangjuli		2.5	3.00
		Muga Farm ,Madang		16.5	18.75
		Muga Seed Farm , Chapli		22	25.5
		Peeplibari Muga Farm,Rangjuli		10	11.5
		Budlung Pahar Muga Farm, Rangjuli		10	11.5
3	Kuchdhowa	Collective Mulberry Garden, Kuchdhowa		1.6	1.75
		Collective Mulberry Garden, Dudhnai		10.5	12.00
		Eri Concentration Centre, Kuchdhowa		5.8	6.75
		Muga Farm, Kuchdhowa		15	17.5
		Muga Farm, Rangrangapara		50	58.00
4	Matia	Collective Mulberry Garden, Matia		6	7.00

		Eri Concentration Centre, Matia		4.9	5.75
		Muga Farm, Matia		20	23.00
5	Lakhipur	Eri Concentration Centre, Lanboopara		6	7.00
		Muga Farm, Baida		11.5	13.5
					247.50

Soil Conservation Department

Proposed List of Activities for PMKSY (Watershed Development) under Soil Conservation Department, Goalpara District

(Rupees in Lakh)

Sl No	***Name of the Blocks /Sub Districts***	***Concerned Ministry/ Department***	***Component***	***Name of the Activity***	***Total Number/ Capacity (cum)***	***Command Area/Irrigation Potential /Benefitted Area (Ha)***	***Period of Implementation (5/7yrs)***	***Estimated cost (Rs. in Lakh.)***
1	**2**	**3**	**4**	**6**	**7**	**8**	**9**	**10**
1	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check Dam with Brick Channel at Bakaitary	38636	37.8	**2016-17**	34.00
2				R.C.C Check Dam at Sidhabari	43500	33.3	-Do-	30.00
3				R.C.C Check Dam at Karipara - Dabpara	29000	22.2	-Do-	20.00
4				R.C.C Check Dam at Sainikpara	29000	22.2	**2017-18**	20.00
5				R.C.C Check	29000	22.2	-Do-	20.00

				Dam at Ranua				
6				R.C.C Check Dam at Pokalagi	43500	33.3	-Do-	30.00
7				Farm Pond at Pokalagi	22200	60	-Do-	30.00
8				Development of Swampy Land for Farm Pond of Sukrasak Beel at Bakaitary	133200	360	**2018-19**	180.00
9	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	Development of Swampy Land for Farm Pond of Sukrasak Beel at Pub Matia	59200	160	**2019-20**	80.00
10				R.C.C Check Dam with Brick Channel at Khamarpakhri	58000	44.4	-Do-	40.00
11				R.C.C Check Dam with Brick Channel at Harimura	72500	55.6	**2020-21**	50.00
12				Farm Pond at Dohikota	37000	100	-Do-	50.00
13				Renovation of	14285	40	-Do-	20.00

				Pond at Helapakhri				
14				Excavation of Pond at Helapakhri	14285	60	-Do-	30.00
15				Creation of Horticulture Plantation at Mornoi	-	4	**2016-17**	5.64
16				Creation of Rubber Plantation at Mornoi.	-	0.8	-Do-	0.73
17				Construction of Boulder Gabion Structure at Bhatipara	-	10.5	-Do-	5.27
18				Creation of Horticulture Plantation at Monakocha.	-	2.5	-Do-	3.43
19				Creation of Rubber Plantation at Monakocha.	-	0.7	-Do-	0.65
20				Excavation of pond at Monakocha.	2175	5.8	-Do-	2.94
21				Construction of Earthen Embank	3162	5	-Do-	2.53

				ment at Monakocha.				
22	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	Construction of Earthen Embankment at Dubapara Luptachar.	2500	4	-Do-	2.00
23				Construction of Earthen Embankment at Bhojmala Pt-II.	2350	3.8	-Do-	1.88
24				Construction of Brick Channel at Bhojmala Pt-II.	1440	6.4	-Do-	3.20
25				Excavation of pond at Bhojmala Pt-I.	2057	5.5	-Do-	2.78
26				Construction of Brick Channel at Khamarpakhri.	1377	6.1	-Do-	3.07
27				Creation of River Bank Plantation by Vetiver Plant at Gajiajani	-	2.5	-Do-	1.25
28				Creation of Tea Plantation at Lalabari.	-	2.5	-Do-	4.81

29				Creation of Vetiver Nursery at Lalabari.	-	1.25	-Do-	0.63
30				Creation of Horticulture Plantation at Lalabari.	-	1 .0	-Do-	1.42
31				Brick channel at Tengabari	-	7.5	-Do-	3.89
32				Excavation of pond at Tengabari.	3214	9 .0	-Do-	4.50
33				Horticulture. Plantation at Dashabhuja Debasthan	-	0.5	-Do-	0.71
34				Const. of Water Distribution Channel(Brick) at Baladmari Char Pt-I	3150	14.0	**2016-17**	7.02
35	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	Const. of Water Distribution Channel(Brick) at Baladmari Char Pt-II	1971	8.8	-Do-	4.38
36				Const. of Water Distribution Channel(	1305	5.8	-Do-	2.90

				Brick) at Baladmari Char Pt-III				
37				Const. of Water Distribution Channel(Brick) at Dekdhowa Char	756	3.4	-Do-	1.68
38				Const. of Water Distribution Channel(Brick) at Paharsingpara	3019	13.4	-Do-	6.71
39				Const. of Water Distribution Channel(Brick) at Dubapara	1570	7.0	-Do-	3.50
40				Const. of Water Distribution Channel(Brick) at Dekdhowa	1899	8.4	-Do-	4.22
41				Const. of Water Distribution Channel(Brick) at Rakhyasini Jhora Pt-I	1260	5.6	-Do-	2.80
42				Const. of Water Distribution Channel(Brick) at Rakhyasini Jungle	2178	9.7	-Do-	4.84

				Block				
43				Excavation of Pond at Baladmari Char Pt-III	2220	6.0	-Do-	3.00
44	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	Excavation of Pond at Paharsingpara	1783	4.8	-Do-	2.41
45				Excavation of Pond at Dekdhowa	2590	7	-Do-	3.50
46				Excavation of Pond at Rakhyasini Jhora Pt-I	3640	9.8	-Do-	4.92
47				Excavation of Pond at Rakhyasini Jhora Pt-II	3515	9.5	-Do-	4.75
48				Excavation of Pond at Rakhyasini Garopara Pt-I	2220	6.0	-Do-	3.00
49				Excavation of Community Pond at Paharsingpara	2693	7.3	-Do-	3.64
50				Excavation of Community Pond at Dubapar]	3899	10.5	-Do-	5.27

51				Excavation of Community Pond at Baladmari Char Pt-IV	2841	7.7	-Do-	3.84
52				Const. of Brick Channel at Baladmari Char Pt-IV	1953	8.7	-Do-	4.34
53				Const. of Water Distribution Channel(Brick) at Helapakhri	2988	13.3	-Do-	6.64
54				Reclamation of Marchy Land at Baladmari Char Pt-II	4795	13.0	-Do-	6.48
55	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	Creation of Tea Plantation at Phuturipara	-	1.0	-Do-	1.82
56				Creation of Tea Plantation at Rakhyasini Garopara Pt-I	-	1.5	-Do-	2.82
57				Creation of Tea Plantation at Harimura	-	1.2	-Do-	2.35
58				Const of Brick Channel	2448	10.9	-Do-	5.44

				at Harimura				
59				Const of Brick Channel at Moizonga	2466	11.0	-Do-	5.48
60				Const of RCC Check Dam at	12513	9.2	-Do-	8.32
61				Boulder Pitching at Phuturipara	-	7.0	-Do-	3.50
62				Excavation of Drainage Channel at Phuturipara	1599	2.9	-Do-	1.44
63				Const of Earthen Guide Bund at Moizonga	7787	12.5	-Do-	6.23
64				Const of Earthen Guide Bund at Phuturipara	5500	8.8	-Do-	4.40
65				Creation of Rubber Plantation at Phuturipara	-	5.0	**2017-18**	4.55
66				Creation of Rubber Plantation at Rakhyasini Garopara Pt-I	-	2.0	-Do-	2.05
67	**Matia**	**DoLR**	**(Watershed Devel**	Excavation of Pond at	2183	5.9	-Do-	2.95

				Rakhyasini Garopara Pt-I				
68				Water Harvesting Structure at Harimura	13302	18.3	-Do-	9.17
69				Excavation of Pond at Harimura	3788	10.2	-Do-	5.12
70				Earthen Guide Bund at Harimura	4375	7.0	-Do-	3.50
71				Boulder Pitching at Harimura	-	11.7	-Do-	5.87
72				Creation of Rubber Plantation at Harimura	-	5	-Do-	4.55
73				Creation of Rubber Plantation at Moijonga	-	4.0	-Do-	3.64
74				Contour Graded Bund at Moijonga	3000	4.8	-Do-	2.40
75				Bamboo Plantation at Moijonga		4.9	-Do-	2.45
76				Contour Graded Bund at Dekdhowa	1200	1.9	-Do-	0.96

77				Rubber Plantation at Dekdhowa	-	6.7	-Do-	6.02
78				Excavated Pond at Rakhyasini Jhora Pt-I	1480	4.0	-Do-	2.00
79	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	Water Distribution Channel at Rakhyasini Jhora Pt-I	1999	3.6	-Do-	1.80
80				Brick Channel at Rakhyasini Jhora Pt-I	918	4.08	-Do-	2.04
81				Contour Bund at Rakhyasini Jhora Pt-I	1800	2.9	-Do-	1.44
82				Excavated Pond at Rakhyasini Jhora Pt-II	2849	7.7	-Do-	3.86
83				Rubber Plantation at Rakhyasini Jhora Pt-II	-	2.0	**2018-19**	1.82
84				Water Distribution Channel at Rakhyasini Jhora Pt-II	4666	8.4	-Do-	4.20
85				Excavated Pond at	4913	13.3	-Do-	6.64

				Rakhyasini Jungle Block				
86				Rubber Plantation at Rakhyasini Garopara Pt-II	-	4.0	-Do-	3.64
87				Field Bund at Baladmari Char Pt-I	1500	2.4	-Do-	1.20
88				Excavated Pond at Baladmari Char Pt-I	2841	7.7	-Do-	3.84
89				Brick Channel at Baladmari Char Pt-I	1683	7.5	-Do-	3.74
90				Reno. Of Excavated Pond at Baladmari Char Pt-I	1894	5.1	-Do-	2.56
91	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	Reclamation of Marshy Land at Baladmari Char Pt-II	7925	21.4	-Do-	10.71
92				Drainage Channel at Baladmari Char Pt-II	2888	5.2	-Do-	2.60
93				Brick Channel at Baladmari Char Pt-II	2295	10.2	-Do-	5.10

94				Nulla Bund at Baladmari Char Pt-II	2333	4.2	-Do-	2.10
95				Excavated Pond at Baladmari Char Pt-III	2294	6.2	-Do-	3.10
96				Brick Channel at Baladmari Char Pt-III	765	3.4	-Do-	1.70
97				Field Bund at Baladmari Char Pt-IV	1500	2.4	-Do-	1.20
98				Excavated Pond at Baladmari Char Pt-IV	1894	5.1	-Do-	2.56
99				Brick Channel at Baladmari Char Pt-IV	1034	4.6	-Do-	2.30
100				Water Distribution Channel at Baladmari Char Pt-IV	1333	2.4	-Do-	1.20
101				Excavated Pond at Dekdhowa Char	142	3.8	-Do-	1.92
102				Rubber Plantation at Paharsing Para	-	9.0	-Do-	8.19

103	**Matia**	**DoLR**	**PMKSY (Watershed Development)**	Brick Channel at Paharsing Para	612	2.7	-Do-	1.36
104				Excavated Pond at Paharsing Para	1184	3.2	-Do-	1.61
105				Brick Channel at Rakhyasini Pahar	549	2.4	-Do-	1.22
106				Horticulture Plantation at Rakhyasini Pahar	-	0.7	-Do-	0.97
107				Rubber Plantation at Dubapara	-	1	-Do-	0.91
108				Brick Channel at Dubapara	1224	5.4	-Do-	2.72
109				Brick Channel at Helapakhri	1530	6.8	-Do-	3.40
110				Horticulture Plantation at Helapakhri	-	1.5	-Do-	2.05
TOTAL								**965.90**

Sl. No.	*Name of the Blocks/Sub Districts*	*Concerned Ministry/ Department*	*Component*	*Name of the Activity*	*Total Number/ Capacity (cum)*	*Command Area/Irrigation Potential /Benefitted Area (Ha)*	*Period of Implementation (5/7yrs)*	*Estimated cost (Rs. in Lakh.)*
1	**2**	**3**	**4**	**6**	**7**	**8**	**9**	**10.00**
1	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Bricks channel at Lahapara	9000	40	**2016-17**	20.00
2				R.C.C Check Dam with Brick Channel at Janjipara Pt-I	22727	22.2	-Do-	20.00
3				Brick channel at Kurung	4500	20	-Do-	10.00
4				Brick Channel with Small Check Dam at Singri	33750	150	-Do-	75.00
5				Brick channel at Jurigaon	33750	100	**2017-18**	50.00
6				R.C.C Check Dam with Brick Channel at Singri	50750	38.9	-Do-	35.00
7				R.C.C Check Dam with Brick channel at Borjhora Pt-I	22727	22.2	-Do-	20.00
8				Bricks channel at Borjhora Pt-I	11250	50	-Do-	25.00
9				Bricks channel at Trichimkali Pandoba(Jongpara)	11250	50	-Do-	25.00
10				R.C.C Check Dam	72500	55.6	-Do-	50.00

				with Brick channel at Lemakona				
11				Brick channel at Jhajipara Pt-I	6750	30	-Do-	15.00
12	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Brick channel at Panisali	11250	50	-Do-	25.00
13				Brick channel at Maladhara Pt-I	6750	30	-Do-	15.00
14				Brick channel at Balachari-Amguri	9000	40	-Do-	20.00
15				Brick channel at Chatabari	6750	30	-Do-	15.00
16				Brick channel at Mogho Pt-III	9000	40	**2018-19**	20.00
17				Earthen Drainage Channel at Janjhipara Pt-I	27775	50	-Do-	25.00
18								
19				Brick channel at Bapurvita Pt-II	11250	50	**2018-19**	25.00
20				Brick channel at Fokirmara	11250	50	-Do-	25.00
21				RCC Check Dam with Brick channel at Saktola	72500	55.6	-Do-	50.00
22				Brick channel at Aulatoli	20250	90	-Do-	45.00
23				Earthen & Brick channel at Medhipara	55550	100	-Do-	50.00
24				Brick channel at Gobal	9000	40	-Do-	20.00

25				Brick channel at Joyramkuchi to Chaibari	20250	90	**2019-20**	45.00
26				Brick channel at Joyramkuchi to Bamundoba	20250	90	-Do-	45.00
27				Brick channel at Nalbari	6750	30	-Do-	15.00
28				Brick channel at Faringapara	888	80	-Do-	40.00
29				Brick channel at Krishnapur	20250	90	-Do-	45.00
30				R.C.C Check Dam with Brick Channel at Kurchakati	18000	44.4	-Do-	40.00
31	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check Dam with Brick Channel at Bowalmari	72500	55.6	-Do-	50.00
32				Development of Swampy Land by Farm pond at Thorko	37000	100	**2020-21**	50.00
33				Farm Pond at Dhamar Reserve	51800	140	-Do-	70.00
34				Const. of Water Harvesting Structure for farm pond at Suari Poitari	37000	100	-Do-	50.00
35				Farm Pond at Borjhora Pt-I	37000	100	-Do-	50.00
36				Excavation of pond at Kulamua	1065	4.9	**2016-17**	2.44
37				Creation of Horticulture	-	0.3	-Do-	0.49

				Plantation at Kulamua				
38				Renovation of Excavated pond at Abhirampara	740	4	-Do-	2.00
39				Creation of Horticulture Plantation at Krishnapur	-	1	-Do-	0.50
40				Creation of Vetiver Nursery at Bamundoba	-	1.3	-Do-	0.63
41				Excavation of pond at Nalbari	1813	4.9	-Do-	2.45
42				Creation of Horticulture Plantation at Jhanjipara Pt-I	-	0.9	-Do-	1.37
43				Creation of Horticulture Plantation at Rongdoba	-	1.0	-Do-	1.42
44				Excavation of pond at Rongdoba	1509	4.1	-Do-	2.04
45				Creation of Horticulture Plantation at Joyramkuchi	-	1.4	-Do-	2.00
46				Creation of Horticulture Plantation at Chaibari	-	1	-Do-	1.42
47	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Excavation of Drainage Channel at Chaibari	2777	7	-Do-	3.50
48				Hor. Plantation at Krishnapur	-	0.5	-Do-	0.71
4				Brick	56	5.1	-Do-	2.54

9				Channel at Joyramkuchi				
50				W/D Channel at Boistampara	3922	7.1	-Do-	3.53
51				Const. of Land Reclamation (Channel Cutting) at Nidanpur Pt-I	1420	3.84	-Do-	1.92
52				Excavation of pond at Nidanpur Pt-I	36704	9.92	-Do-	4.96
53				Excavation of pond at Dhamar Beel	4750	12.84	-Do-	6.42
54				Excavation of pond at Deonapara Pt-I	1894	5.12	-Do-	2.56
55				Excavation of pond at Ghunghunivita	1598	4.324	-Do-	2.16
56				Excavation of pond at Bapurvita Pt-III	2493	6.758	-Do-	3.38
57				Excavation of pond at Medhipara Pt-I	2841	7.68	-Do-	3.84
58				Excavation of pond at Medhipara Pt-II	2664	7.2	-Do-	3.60
59				Excavation of pond at Dhamar Reserve	2841	7.7	-Do-	3.84
60				Excavation of pond at Bapurvita Pt-II	2841	7.7	**2017-18**	3.84
61				Swampy Land developmen	2412	6.5	-Do-	3.26

				t for Pisciculture at Singri Pt-I				
62				RCC Check Dam at Singri Pt-II	10875	8.3	-Do-	7.51
63	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	RCC Check Dam at Besorkona	12093	9.3	-Do-	8.34
64				RCC Check Dam at Hatogaon Pt-II	12093	9.3	-Do-	8.34
65				RCC Check Dam at Hatogaon Pt-I	12093	9.3	-Do-	8.34
66				Renovation of Drainage Channel at Deonapara Pt-II	2844	5.12	-Do-	2.56
67				Renovation of Drainage Channel (Brick) at Lahapara	2844	5.1	-Do-	2.56
68				Cost. of Brick Channel at Hatisila Rabhapara	1530	6.8	-Do-	3.40
69				Cost. of Brick Channel at Salpara	1530	6.8	-Do-	3.40
70				Cost. of Brick Channel at Jurigaon	166	0.7	-Do-	0.37
71				Cost. of Brick Channel at Bapurvita Pt-III	900	4	-Do-	2.00
72				Cost. of Brick Channel at Bapurvita Pt-I	3037	13.5	-Do-	6.75

73				Const. of Earthen Embankment with 2 No Slab Culvert at 41Hatisila M42uslimpara	3193	5.1	-Do-	2.56
74				Drainage Channel at Bolaikhamar	2666	4.8	-Do-	2.40
75				Earthen Guide Bund at Bolaikhamar	3000	6	-Do-	3.00
76				Drainage Channel at Hatogaon Pt-I	1333	2.4	-Do-	1.20
77				Excavation of pond at Hatogaon Pt-I	2220	6	-Do-	3.00
78	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Excavation of pond at Medhipara Pt-II	2871	7.8	-Do-	3.88
79				Excavation of pond at Medhipara Pt-I	3670	9.9	-Do-	4.96
80				Const. of Earthen Embankment at Dhamar Reserve	3350	5.4	-Do-	2.69
81				Excavation of pond at Dhamar Reserve	3048	8.2	-Do-	4.12
82				Earthen Guide Bund at Bapurvita Pt-II	3587	5.8	-Do-	2.88
83				Drainage Channel at Bapurvita Pt-II	2666	4.8	**2018-19**	2.40

84				Renv. Of Drainage Channel at Bapurvita Pt-II	2155	3.9	-Do-	1.94
85				Contour Bund at Bapurvita Pt-I	2662	4.3	-Do-	2.13
86				Drainage Channel at Bapurvita Pt-I	2666	4.8	-Do-	2.40
87				Renv. Of Drainage Channel at Bapurvita Pt-I	2155	5.9	-Do-	2.94
88				Renv. Of Drainage Channel at Dhokapara	1077	1.9	-Do-	0.97
89				Excavation of pond at Dhokapara	1894	5.1	-Do-	2.56
90				Excavation of pond at Lambupara	1894	5.1	-Do-	2.56
91				Brick Channel at Lahapara	1287	9.7	-Do-	4.87
92				RCC Check Dam at Besorkona	10686	8.2	-Do-	7.37
93				Excavation of pond at Besorkona	3085	8.3	-Do-	4.17
94	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Renv. Of Drainage Channel at Deonapara Pt-II	2155	3.9	-Do-	1.94
95				Excavation of pond at Ghungunivita	2138	5.8	-Do-	2.90
96				Brick Channel at Gobal	675	7	-Do-	3.50
97				River Protection withBoulder Pitching at	-	4	-Do-	2.00

				Hatisila Muslimpara				
98				Excavation of pond at Hatisila Muslimpara	1894	5.12	-Do-	2.56
99				Earthen Guide Bund at Hatisila Rabhapara	2500	16	-Do-	8.00
100				Drainage Channel at Salpara	2666	4.8	-Do-	2.40
101				Const. of Earthen Embankment at Jurigaon	3750	10.748	5/7 yrs	5.37
102				Swampy Land Dev. At Jurigaon	2222	8	-Do-	4.00
103				Brick Channel at Jurigaon	1530	6.8	-Do-	3.40
104				Drainage Channel at Jurigaon	1999	7.6	-Do-	3.80
105				Drainage Channel at Hatogaon Pt-II	1999	7.6	-Do-	3.80
106				Excavation of pond at Hatogaon Pt-II	3374	9.1	-Do-	4.56
107				Drainage Channel at Bapurvita Pt-III	2821	5.1	-Do-	2.54
108				Renv. 0f Drainage at Bapurvita Pt-III	2844	5.1	-Do-	2.56
109				Excavation of pond at Bapurvita Pt-III	1642	12.4	-Do-	6.22
110	**Lakhipur**	**DoLR**	**(Watershed Develop**	Drainage Channel at Nidanpur Pt-II	3333	6.0	-Do-	3.00

111				Excavation of pond at Nidanpur Pt-II	2841	7.7	-Do-	3.84
112				Excavation of pond at Dhamar Beel	1480	4.1	-Do-	2.03
113				Excavation of pond at Singri pt-I	2841	7.7	-Do-	3.84
114				Swampy Land Dev. At Singri pt-I	2960	8	-Do-	4.00
115				Drainage Channel at Singri pt-II	5332	9.6	-Do-	4.80
116				Excavation of pond at Singri pt-II	4736	12.8	-Do-	6.40
117				Contour Bund at Singri pt-II	4500	7.2	-Do-	3.60
118				Renovation of Drainage Channel at Trichimkali Pandoba Pt-II	2588	4.7	**2019-20**	2.33
119				Renovation of Drainage Channel at Trichimkali Pandoba Pt-I	2888	5.2	-Do-	2.60
120				Renovation of Drainage Channel at Mogho Hatisila	1111	2	-Do-	1.00
121				Renovation of Drainage Channel at Baida Pt-I	2220	4	-Do-	2.00
122				Excavation of Pond at Trichimkali Pandoba Pt-II	2035	5.5	-Do-	2.75
123				Excavation of Pond at Mogho Pt-I	1842	5.0	-Do-	2.50

124				Const of Water Distribution Brick Channel at Balachari Amguri	1080	4.8	-Do-	2.40
125	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Const of Water Distribution Brick Channel at Maladhara Pt-I	1350	6	-Do-	3.00
126				Const of Water Distribution Brick Channel at Dipalchung	1350	6	-Do-	3.00
127				Const of Water Distribution Brick Channel at Bakchari	2106	9.4	-Do-	4.69
128				Const. of RCC Check Dam at Lemakona	12093	9.3	-Do-	8.34
129				Const. of RCC Check Dam at Dipkai Pt-I	12093	9.3	-Do-	8.34
130				Const. of RCC Check Dam at Baida Pt-II	10440	8.0	-Do-	7.20
131				Const. of RCC Check Dam at Mogho Hatisila	12093	9.3	-Do-	8.34
132				Const. of RCC Check Dam at Baida Pt-I	12093	9.3	-Do-	8.34
133				Creation of Rubber Plantation at Maladhara Pt-I	-	0.9	-Do-	0.79

134				Creation of Rubber Plantation at Chatabari Pt-II	-	1.0	-Do-	0.91
135				Creation of Rubber Plantation at Borjhora Pt-II	-	1.0	-Do-	0.91
136				Const. of Brick Channel at Balachari Amguri	1836	8.2	-Do-	4.08
137				Const. of Brick Channel at Trichimkali Pandoba Pt-I	1021	4.5	-Do-	2.27
138				Const. of Brick Channel at Daiphung	1539	6.8	-Do-	3.42
139				Const. of Brick Channel atMogho Pt-III	918	4.1	-Do-	2.04
140				Const. of Drainage Channel at Borjhora Pt-II	2666	4.8	-Do-	2.40
141	**Lakhi pur**	**DoLR**	**PMKSY (Watershed Development)**	Const. of Drainage Channel(Brick) at Borjhora Pt-II	990	4.4	-Do-	2.20
142				Renovation of RCC Check Dam at Dipkai Pt-I	8163	11.3	-Do-	5.63
143				Const of Community Pond at Chatabari Pt-II	4736	12.8	-Do-	6.40

144				Const of Community Pond at Mogho Pt-II	4292	11.6	-Do-	5.80
145				Const of Community Pond at Kurung	2960	8.0	-Do-	4.00
146				Const. of Earthen Guide Bund at Mogho Pt-III	1450	2.3	-Do-	1.16
147				Const of Swampy Land Developmen t for Pisciculture at Mogho Pt-III	2220	6.0	-Do-	3.00
148				Const. of Contour Bund at Nahalvita	1500	2.4	-Do-	1.20
149				Const. of Contour Bund at Kurung	2862	4.6	-Do-	2.29
150				Const. of Guide Bund at Fakirmara Pt-II	3750	6.0	-Do-	3.00
151				Excavated pond at Baida Pt-I	1480	4.0	-Do-	2.00
152				Contour Bund at Neharvita	325	0.5	-Do-	0.26
153				Rubber Plantation at Neharvita	-	5.0	-Do-	4.55
154				Drainage Channel at Neharvita	1999	3.6	-Do-	1.80
155				Brick Channel at Neharvita	1530	6.8	-Do-	3.40
156				Water distribution Channel at	2110	3.8	-Do-	1.90

				Kurung				
157				Earthen Guide Bund at Kurung	3125	5.0	-Do-	2.50
158	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Rubber Plantation at Borjhora Pt-II	-	5.0	-Do-	4.55
159				RCC Check Dam at Borjhora Pt-II	13296	10.1	-Do-	9.17
160				Drainage Channel at Phakirmara Pt-II	1999	3.6	-Do-	1.80
161				Excavated Pond at Balasari	3034	8.2	-Do-	4.10
162				Rubber Plantation at Balasari	-	1.0	-Do-	0.91
163				RCC Check Dam at Mogho Pt-I	9674	13.3	-Do-	6.67
164				Water distribution Channel at Mogho Pt-I	1599	2.9	-Do-	1.44
165				Rubber Plantation at Mogho Pt-I	-	0.6	-Do-	0.59
166				Drainage Channel at Mogho Pt-II	1999	3.6	-Do-	1.80
167				Brick Channel at Mogho Pt-II	1530	6.8	-Do-	3.40
168				Rubber Plantation at Mogho Pt-II	-	4.0	-Do-	3.64
169				Earthen Guide Bund at Mogho Pt-III	4225	6.8	-Do-	3.38
170				Rubber Plantation at Mogho Pt-III	-	4.5	-Do-	4.10

171				Excavated Pond at Mogho Pt-III	1480	4.0	-Do-	2.00
172				Excavated Pond at Mogho Hatisila	1443	3.9	-Do-	1.95
173				Rubber Plantation at Depalchang	-	5.0	-Do-	4.55
174	**Lakhi pur**	**DoLR**	**PMKSY (Watershed Development)**	Excavated Pond at Depalchang	1443	3.9	-Do-	1.95
175				Rubber Plantation at Maladhara Pt-I	-	2.5	-Do-	2.30
176				Water distribution Channel at Maladhara Pt-I	1333	2.4	-Do-	1.20
177				Brick Channel at Maladhara Pt-I	918	4.1	-Do-	2.04
178				Contour Bund Maladhara Pt-I	1500	2.4	-Do-	1.20
179				Excavated Pond at Maladhara Pt-I I	3700	10.0	-Do-	5.00
180				Excavated Pond at Lemakona	1820	4.9	-Do-	2.47
181				Water distribution Channel at Lemakona	2666	4.8	-Do-	2.40
182				Rubber Plantation at Balachari Amguri	-	3.0	-Do-	2.73
183				Water distribution Channel at Trisimkali Pandoba Pt-	4643	8.4	-Do-	4.18

				II				
184				Rubber Plantation at Trisimkali Pandoba Pt-II	-	2.0	-Do-	1.82
185				Rubber Plantation at Chatabari Pt-I	-	2.0	-Do-	1.82
186				Excavated Pond at Chatabari Pt-I	3093	8.4	-Do-	4.18
187				RCC Check Dam at Chatabari Pt-I	10440	14.4	-Do-	7.20
188				Water distribution Channel at Chatabari Pt-I	3333	6.0	-Do-	3.00
189				Rubber Plantation at Chatabari Pt-II	-	3.0	-Do-	2.73
190				RCC Check Dam at Chatabari Pt-II	12093	9.2	-Do-	8.34
191	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Rubber Plantation at Trisimkali Pandoba Pt-I	-	2.0	-Do-	1.82
192				Excavated Pond at Trisimkali Pandoba Pt-I	2220	6.0	-Do-	3.00
193				Water distribution Channel at Trisimkali Pandoba Pt-I	5310	9.6	-Do-	4.78

194				Earthen Guide Bund at Dipkai Pt-I	2625	4.2	-Do-	2.10
195				Excavated Pond at Dipkai Pt-II	1110	3.0	-Do-	1.50
196				Water distribution Channel at Baida Pt-II	1633	2.9	-Do-	1.47
197				Renovation of Drainage Channel at Baida Pt-II	2255	4.1	-Do-	2.04
198				Brick Channel at Baida Pt-II	765	3.4	-Do-	1.70
199				Excavated Pond at Baida Pt-II	1450	3.9	-Do-	1.96
200				Rubber Plantation at Baida Pt-II	-	3.0	-Do-	2.73
201				Construction of Brick Channel at Bhaismari	917	4.1	**2020-21**	2.04
202				Construction of Brick Channel at Jaybhum	1146	5.1	-Do-	2.55
203				Construction of Brick Channel at Kajipota	1146	5.1	-Do-	2.55
204				Construction of Brick Channel at Kasima	1146	5.1	-Do-	2.55
205				Construction of Brick Channel at Khudra Paitari	1375	6.1	-Do-	3.06
206				Construction of Brick Channel at Lezam	917	4.1	-Do-	2.04
207	**Lakhipur**	**DoLR**	**- (Watershed Devel**	Construction of Brick Channel at	1146	5.1	-Do-	2.55

				Puthimari				
208				Construction of Brick Channel at Soari Paitari	1375	6.1	-Do-	3.06
209				Construction of Brick Channel at Aolatoli	917	4.1	-Do-	2.04
210				Construction of Brick Channel at Khonar Pub Par	917	4.1	-Do-	2.04
211				Construction of Brick Channel at Lakhipur Town	1375	6.1	-Do-	3.06
212				Construction of Brick Channel at Likirpara	517	4.1	-Do-	2.04
213				Construction of Drainage Channel at Bardol	4973	9.0	-Do-	4.48
214				Construction of Drainage Channel at Bhaismari	3967	7.1	-Do-	3.57
215				Construction of Drainage Channel at Boro Paitary	3744	6.7	-Do-	3.37
216				Construction of Drainage Channel at Jaybhum	1755	3.2	-Do-	1.58
217				Construction of Drainage Channel at Khudra Paitary	2633	4.7	-Do-	2.37
218				Construction of Drainage	2633	4.7	-Do-	2.37

				Channel at Lezam				
219				Construction of Drainage Channel at Aolatoli	2633	4.7	-Do-	2.37
220				Construction of Drainage Channel at Latima	1755	3.2	-Do-	1.58
221				Construction of Drainage Channel at Mothabari	2282	4.1	-Do-	2.05
222				Construction of Drainage Channel at Niz Kursa Kati	4388	7.9	-Do-	3.95
223	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Construction of Drainage Channel at Bowalmari	1755	3.2	-Do-	1.58
224				Construction of Drainage Channel at Chakla Gaon	1755	3.2	-Do-	1.58
225				Construction of Drainage Channel at Lakhipur Town	1755	3.2	-Do-	1.58
226				Construction of Drainage Channel at Likiripara	1755	3.2	-Do-	1.58
227				Construction of RCC Check Dam at Boro Paitary	11221	8.6	-Do-	7.74
228				Construction of RCC Check Dam	11221	8.6	-Do-	7.74

				at Soari Paitary				
229				Construction of RCC Check Dam at Aolatoli	12615	9.7	-Do-	8.71
230				Construction of RCC Check Dam at Niz Khursa Kati	12615	9.7	-Do-	8.71
231				Construction of RCC Check Dam at Chakalabeel	15428	11.8	-Do-	10.64
232				Construction of RCC Check Dam at Silapani	11221	8.6	-Do-	7.74
233				Excavation of Pond at Bardol	873	2.4	-Do-	1.18
234				Excavation of Pond at Bhaisamari	873	2.4	-Do-	1.18
235				Excavation of Pond at Boro Paitary	1628	4.4	-Do-	2.20
236				Excavation of Pond at Jaybhum	1702	4.6	-Do-	2.30
237				Excavation of Pond at Lezam	1850	5.0	-Do-	2.50
238				Excavation of Pond at Aolatoli	2812	7.6	-Do-	3.80
239				Excavation of Pond at Chowktola	873	2.4	-Do-	1.18
240	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Excavation of Pond at Latima	2664	7.2	-Do-	3.60
241				Excavation of Pond at Mothabari	873	2.4	-Do-	1.18
242				Excavation of Pond at Niz Khursa Kati	1628	4.4	-Do-	2.20

243				Excavation of Pond at Chakla Gaon	1850	5.0	-Do-	2.50
244				Excavation of Pond at Likripara	873	2.4	-Do-	1.18
245				Reclamation of Drainage Channel at Paringapara	2633	4.7	-Do-	2.37
246				Reclamation of Drainage Channel at Kursakati	2633	4.7	-Do-	2.37
247				Construction of Box Culvert at Chowktola	-	2.0	-Do-	1.00
248				Construction of Box Culvert at Chowktola	-	4.0	-Do-	2.00
249				Construction of Box Culvert at Latima	-	4.0	-Do-	2.00
250				Construction of Box Culvert at Mothabari	-	2.0	-Do-	1.00
251				Renovation of Brick Channel at Jaybhum	688	3.1	-Do-	1.53
252				Construction of Agri Bund at Khudra Paitary	2737	4.4	-Do-	2.19
253				Construction of Agri Bund at Lezma	2737	4.4	-Do-	2.19
254				Construction of Agri Bund at Aolatoli	4650	7.4	-Do-	3.72
255				Construction of Agri Bund at Chowktola	2737	4.4	-Do-	2.19

256				Construction of Agri Bund at Bowalmari	2737	4.4	-Do-	2.19
257				Construction of Earthen Channel at Soari Paitary	1053	1.9	-Do-	0.95
258				Construction of Earthen Channel at Chaklabeel	1755	3.2	-Do-	1.58
259				Construction of Earthen Channel at Silapani	1755	3.2	-Do-	1.58
260				Construction of Embankment at Bardol	1624	2.6	-Do-	1.31
261	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Construction of Field Bund at Lezma	2737	4.4	-Do-	2.19
262				Construction of Field Bund at Khonar Pub Par	3362	5.3	-Do-	2.63
263				Construction of Field Bund at Latima	2737	4.4	-Do-	2.19
264				Construction of Field Bund at Mothabari	2737	4.4	-Do-	2.19
265				Construction of Graded Bund at Aolatoli	2737	4.4	-Do-	2.19
266				Construction of Graded Bund at Chakla Gaon	2187	3.5	-Do-	1.75
267				Construction of Nulla Bund at	3550	5.7	-Do-	2.84

				Jaybhum				
268				Construction of Nulla Bund at Khudra Paitari	2212	3.6	-Do-	1.78
269				Construction of Nulla Bund at Chowktola	3550	5.7	-Do-	2.84
270				Construction of Periphery Bund at Faringapara	4100	6.6	-Do-	3.29
271				Construction of Periphery Bund at Kursakati	8212	13.1	-Do-	6.57
272	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Creation of Horticulture Plantation at Kajipota	-	1.0	-Do-	1.45
273				Creation of Horticulture Plantation at Kasima	-	1.0	-Do-	1.45
274				Creation of Horticulture Plantation at Puthimari	-	0.3	-Do-	0.43
275				Construction of Earthen Channel at Sonalurtol	1755	3.2	-Do-	1.58
276				Construction of Field Bund at Bamuner Alga Pt-III	5475	8.8	-Do-	4.38
277				Construction of Field Bund at Niz Bogari Bari	5475	8.8	-Do-	4.38
278				Construction of Graded Bund at Sonalurtol	2737	4.4	-Do-	2.19

279				Construction of Graded Bund at Bamuner Alga Pt-II	5475	8.8	-Do-	4.38
280				Construction of Graded Bund at Bamuner Alga Pt-III	8212	13.1	-Do-	6.57
281				Construction of Graded Bund at Killahara Pt-II	5475	8.8	-Do-	4.38
282				Construction of Graded Bund at Rowkhowa River Block N.C. Pt-II	5475	8.8	-Do-	4.38
283				Construction of Graded Bund at Bororchar Pt-I	4100	6.6	-Do-	3.29
284				Construction of Graded Bund at Rowkhowa Pt-II	8212	13.1	-Do-	6.57
285				Construction of Graded Bund at Rowkhowa Salmara	2737	4.4	-Do-	2.19
286				Construction of Graded Bund at Salmara	2737	4.4	-Do-	2.19
287				Construction of Graded Bund at Thilapara Pt-I	4100	6.6	-Do-	3.29
288	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Construction of Graded Bund at Thilapara Pt-II	4100	6.6	-Do-	3.29
289				Construction of Brick Channel at	1375	6.1	-Do-	3.06

				Sonalurtol				
290				Construction of Brick Channel at Bamuner Alga Pt-III	1375	6.1	-Do-	3.06
291				Construction of Brick Channel at Bamuner Alga Pt-IV	2751	12.2	-Do-	6.11
292				Construction of Brick Channel at Kistomani Pt-I	1375	6.1	-Do-	3.06
293				Reclamation of Drainage Channel at Kistomani Pt-I	1922	3.5	-Do-	1.74
294				Reclamation of Drainage Channel at Rowkhowa Salmara	1399	2.5	-Do-	1.26
295				Reclamation of Drainage Channel at Salmara	1399	2.5	-Do-	1.26
296				Construction of Excavated Pond at Sonalurtol	873	2.4	-Do-	1.18
297				Construction of Excavated Pond at Bamuner Alga Pt-II	873	2.4	-Do-	1.18
298				Construction of Excavated Pond at Bamuner Alga Pt-III	873	2.4	-Do-	1.18
299				Construction of Excavated Pond at Rowkhowa	873	2.4	-Do-	1.18

				River Block N.C. Pt-II				
300				Construction of Excavated Pond at Kistomani Pt-I	873	2.4	-Do-	1.18
301				Construction of Excavated Pond at Rowkhowa Salmara	873	2.4	-Do-	1.18
302	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Construction of Excavated Pond at Salmara	873	2.4	**2016-17**	1.18
303				Reclamation of Sandy Land at Thongpara.	-	2.4	-Do-	1.20
304				Creation of Horticulture Plantation at Balikachi Mosalmanpara (Muslimpara)	-	1.0	-Do-	1.45
305				Creation of Horticulture Plantation at Thongapara	-	1.0	-Do-	1.45
306				Creation of Horticulture Plantation at Bamuner Alga Pt-I	-	1.0	-Do-	1.45
307				Creation of Horticulture Plantation at Bamuner Alga Pt-I	-	1.0	-Do-	1.45

308				Creation of Horticulture Plantation at Bamuner Alga Pt-II	-	0.5	-Do-	0.72
309				Creation of Horticulture Plantation at Bamuner Alga Pt-II	-	0.5	-Do-	0.72
310				Creation of Horticulture Plantation at Bamuner Alga Pt-III	-	1.0	-Do-	1.45
311				Creation of Horticulture Plantation at Bamuner Alga Pt-IV	-	1.0	-Do-	1.45
312				Creation of Horticulture Plantation at Cholakura Pt-II	-	1.0	-Do-	1.45
313				Creation of Horticulture Plantation at Cholakura Pt-II	-	1.0	-Do-	1.45
314	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Creation of Horticulture Plantation at Cholakura Pt-III	-	1.0	**2017-18**	1.45
315				Creation of Horticulture Plantation at Cholakura Pt-III	-	1.0	-Do-	1.45
316				Creation of Horticulture Plantation at Chowlar Char	-	1.0	-Do-	1.45

317				Creation of Horticulture Plantation at Chowlar Char	-	1.0	-Do-	1.45
318				Creation of Horticulture Plantation at Kilahara Pt-II	-	1.0	-Do-	1.45
319				Creation of Horticulture Plantation at Kilahara Pt-II	-	1.0	-Do-	1.45
320				Creation of Horticulture Plantation at Kilahara Pt-III	-	1.0	-Do-	1.45
321				Creation of Horticulture Plantation at Kilahara Pt-III	-	1.0	-Do-	1.45
322				Creation of Horticulture Plantation at Kilahara Pt-IV	-	1.0	-Do-	1.45
323				Creation of Horticulture Plantation at Kilahara Pt-IV	-	1.0	-Do-	1.45
324				Creation of Horticulture Plantation at Kilahara Pt-V	-	1.0	-Do-	1.45
325				Creation of Horticulture Plantation at Kilahara Pt-V	-	1.0	-Do-	1.45
326				Creation of Horticulture Plantation at Rowkhowa River Block N.C. Pt-II	-	1.0	-Do-	1.45

327				Creation of Horticulture Plantation at Singulipara Kilahara Pt-I	-	1.0	-Do-	1.45
328	**Lakhipur**	**DoLR**	**PMKSY (Watershed Development)**	Creation of Horticulture Plantation at Singulipara Kilahara Pt-I	-	1.0	**2018-19**	1.45
329				Creation of Horticulture Plantation at Singulipara Kilahara Pt-II	-	1.0	-Do-	1.45
330				Creation of Horticulture Plantation at Singulipara Kilahara Pt-II	-	1.0	-Do-	1.45
331				Creation of Horticulture Plantation at Borochar Pt-I	-	1.0	-Do-	1.45
332				Creation of Horticulture Plantation at Jamaibari Algachar Pt-II	-	1.0	-Do-	1.45
333				Creation of Horticulture Plantation at Jamaibari Algachar Pt-II	-	1.0	-Do-	1.45
334				Creation of Horticulture Plantation at Jamaibari Algachar Pt-	-	1.0	-Do-	1.45

				III				
335				Creation of Horticulture Plantation at Jamaibari Algachar Pt-III	-	1.0	-Do-	1.45
336				Creation of Horticulture Plantation at Jamaibari Algachar Pt-IV	-	1.0	-Do-	1.45
337				Creation of Horticulture Plantation at Jamaibari Algachar Pt-IV	-	1.0	-Do-	1.45
338				Creation of Horticulture Plantation at Kistomani Pt-I	-	1.0	-Do-	1.45
339				Creation of Horticulture Plantation at Kistomani Pt-II	-	1.0	-Do-	1.45
340	**Lakhi pur**	**DoLR**	**PMKSY (Watershed Development)**	Creation of Horticulture Plantation at Rowkhowa Ballapara	-	1.0	**2019-2020**	1.45
341				Creation of Horticulture Plantation at Rowkhowa Ballapara	-	1.0	-Do-	1.45
342				Creation of Horticulture Plantation at Rowkhowa	-	1.0	-Do-	1.45

				Pt-I				
343				Creation of Horticulture Plantation at Rowkhowa Pt-I	-	1.0	-Do-	1.45
344				Creation of Horticulture Plantation at Rowkhowa Pt-II	-	1.0	-Do-	1.45
345				Creation of Horticulture Plantation at Rowkhowa Salmara	-	1.0	-Do-	1.45
346				Creation of Horticulture Plantation at Salmara	-	1.0	-Do-	1.45
347				Creation of Horticulture Plantation at Thilapara Pt-I	-	1.0	-Do-	1.45
348				Creation of Horticulture Plantation at Thilapara Pt-I	-	1.0	-Do-	1.45
349				Creation of Horticulture Plantation at Thilapara Pt-II	-	1.0	-Do-	1.45
Total								**207 3.73**

Sl. No.	***Name of the Blocks /Sub Districts***	***Concerned Ministry/ Department***	***Component***	***Name of the Activity***	***Total Number/ Capacity (cum)***	***Command Area/Irrigation Potential /Benefitted Area (Ha)***	***Period of Implementation (5/7yrs)***	***Estimated cost (Rs. in Lakh.)***
1	**2**	**3**	**4**	**6**	**7**	**8**	**9**	**10**
1	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check Dam with Bricks channel at Patiarpara	54000	33.3	**2016-17**	30.00
2				R.C.C Check Dam at Rowmari	43500	33.3	-Do-	30.00
3				Bricks Channel at Khekapara	9000	40	-Do-	20.00
4				R.C.C Check Dam at Dhanubhanga	36250	27.8	-Do-	25.00
5				Earthen Guide Bund witjh Boulder Wall for protection of Sand Throwing, River Deosila at Khekapara	56250	90	**2017-18**	45.00
6				R.C.C Check Dam with Bricks channel at Gohaibari	54000	33.3	-Do-	30.00
7				Bricks Channel at Bamuniga	9000	40	-Do-	20.00

				on				
8				R.C.C Check Dam at Ambari Pt-III	29000	22.2	-Do-	20.00
9				R.C.C Check Dam with Brick channel at Sikiajuli-Kuhiarbari Ph-I	72500	55.6	-Do-	50.00
10				R.C.C Check Dam with Brick channel at Sikiajuli-Kuhiarbari Ph-II	72500	55.6	-Do-	50.00
11	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check Dam at Kayasthapara	29000	22.2	-Do-	20.00
12				Bricks Channel at Patpara	9000	40	-Do-	20.00
13				R.C.C Check Dam with Bricks channel at Bhalukjuli	29000	22.2	**2018-19**	20.00
14				R.C.C Check Dam with Bricks channel at Paulpara	101500	77.8	-Do-	70.00
15				R.C.C Check Dam with Bricks channel at Athiabari	58000	44.4	-Do-	40.00
16				R.C.C Check	101500	77.8	**2018-19**	70.00

				Dam with Bricks channel at Kasubari				
17				R.C.C Check Dam at Rangjuli	29000	22.2	-Do-	20.00
18				Earthen Drainage & Brick Channel at Bakhrapara	44440	80	-Do-	40.00
19				Excavation of Channel with Boulder wall at Kahibari Pt-II	22220	40	**2019-20**	20.00
20				Brick Channel at Kahibari Pt-II	31500	140	-Do-	70.00
21				R.C.C Check Dam with Bricks channel at Ghagramowamari	58000	44.4	-Do-	40.00
22				R.C.C Check Dam at Tiplai Ph-I	36250	27.8	-Do-	25.00
23				R.C.C Check Dam at Tiplai Ph-II	29000	22.2	-Do-	20.00
24				R.C.C Check Dam at Garuchatka	36250	27.8	-Do-	25.00
25				Brick Channel at	9000	40	-Do-	20.00

				Garuchatka				
26				Farm Pond at Khutabari Pt-I	37000	100	-Do-	50.00
27	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	Farm Pond at Khutabari Pt-IV	51800	140	**2020-21**	70.00
28				Farm Pond at Bordol	37000	100	-Do-	50.00
29				Farm Pond at Ghilabari	37000	100	-Do-	50.00
30				R.C.C Check Dam with Bricks channel at Ghilabari	101500	50	-Do-	45.00
31				Farm Pond at Barbori	37000	100	-Do-	50.00
32				Graded Bund at Ouguri	1500	10	**2016-17**	1.20
33				Graded Bund at Khutabari Pt-II	1500	10	-Do-	1.20
34				Graded Bund at Ghilabori	1500	10	-Do-	1.20
35				Graded Bund at Garuchatka Pt-II	1500	10	-Do-	1.20
36				Graded Bund at Sikiajuli Kuhiarbari	2400	16	-Do-	1.92
37				Boulder Pitching at Patpara Pt-I	-	28	-Do-	3.33
38				RCC Check Dam at Patpara	6046	35	-Do-	4.17

				Pt-I				
39				RCC Check Dam at Tiplai Pt- I	7250	42	-Do-	5.00
40				RCC Check Dam at Tiplai Pt-III	9686	56	-Do-	6.69
41				RCC Check Dam at Kathalmuri Palsa	6046	35	-Do-	4.17
42				RCC Check Dam at Ulubari Noytara Chowtara Beel	24186	139	-Do-	16.68
43	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	RCC Check Dam at Garuchatka Pt-II	19865	114	-Do-	13.61
44				RCC Check Dam at Gohaibari	7482	43	-Do-	5.17
45				RCC Check Dam at Khutabari Pt-I	7250	42	-Do-	5.00
46				RCC Check Dam at Khutabari Pt-II	3625	21	-Do-	2.50
47				RCC Check Dam at Khutabari Pt-IV	4234	24	-Do-	2.92
48				RCC Check Dam at Bordol Pt-I	3625	21	-Do-	2.50

49				RCC Check Dam at Sikiajuli Kuhiarbari	10875	56	-Do-	7.51
50				RCC Check Dam at Sikiajuli Ghagra RCC Check Dam at Moamari	6046	33	-Do-	4.00
51				RCC Check Dam at Sikiajuli Ghagra Moamari	6699	38	-Do-	4.62
52				Earthen Guide Bund at Bamunigaon Pt-I	4075	27	-Do-	3.26
53				Earthen Guide Bund at Patpara Pt-I	1225	8	-Do-	0.98
54				Earthen Guide Bund at Ouguri	3062	20	-Do-	2.45
55				Earthen Guide Bund at Ouguri	1525	10	-Do-	1.23
56				Earthen Guide Bund at Budlung Chanchaliapara	1525	10	-Do-	1.23
57				Earthen Guide Bund at Bijoypur Bongaon	15312	102	-Do-	12.25
58				Earthen Guide Bund at	4075	27	-Do-	3.26

				Ulubari Noytara Chowtara Beel				
59	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	Earthen Guide Bund at Tiplai Pt-III	4075	27	-Do-	3.26
60				Earthen Guide Bund at Tiplai Pt-III	5700	38	-Do-	4.56
61				Earthen Guide Bund at Khutabari Pt-I	1750	12	-Do-	1.40
62				Earthen Guide Bund at Khutabari Pt-III	1500	10	-Do-	1.20
63				Earthen Guide Bund at Khutabari Pt-III	3500	23	-Do-	2.80
64				Earthen Guide Bund at Bordol Pt-I	1697	11	-Do-	1.36
65				Earthen Guide Bund at Bordol Pt-II	1630	11	-Do-	1.30
66				Earthen Guide Bund at Kauridubi Telipara	3750	25	-Do-	3.00
67				Earthen Guide Bund at Garuchatka Pt-II	4075	27	**2017-18**	3.26
68				Earthen Guide Bund at Dhantola	2450	16	-Do-	1.96

				Pt-II				
69				Earthen Guide Bund at Dhantola Pt-I	3481	23	-Do-	2.79
70				Earthen Guide Bund at Tiplai Pt-I	4593	31	-Do-	3.68
71				Earthen Guide Bund at Tiplai Pt-II	4593	31	-Do-	3.68
72				Renovation of Drainage Channel at Bamunigaon Pt-I	3044	23	-Do-	2.74
73				Renovation of Drainage Channel at Bamunigaon Pt-II	3652	27	**2017-18**	3.29
74				Renovation of Drainage Channel at Kathalmuri Palsa	2506	19	-Do-	2.33
75	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	Renovation of Drainage Channel at Ghagra Pahar	1077	8	-Do-	0.97
76				Renovation of Drainage Channel at Budlung Chanchalipara	2054	15	-Do-	1.85
77				Renovation of Drainage	1616	12	-Do-	1.46

				Channel at Ambari Pt-III				
78				Renovation of Drainage Channel at Bijoypur Bongaon	4210	32	-Do-	3.88
79				Renovation of Drainage Channel at Khutabari Pt-I	1718	13	-Do-	1.57
80				Renovation of Drainage Channel at Khutabari Pt-II	546	4	-Do-	0.49
81				Brick Channel at Ghagra Pahar	1530	29	-Do-	3.40
82				Brick Channel at Ghagra Saljhar	1530	29	-Do-	3.40
83				Brick Channel at Garuchatka Pt-I	1530	29	-Do-	3.40
84				Brick Channel at Garuchatka Pt-II	612	11	-Do-	1.36
85				Water Distribution Channel at Bamunigaon Pt-I	1599	12	-Do-	1.44
86				Water Distribution Channel	2666	20	**2017-18**	2.40

				at Patpara Pt- I				
87				Water Distribution Channel at Kathalmuri Palsa	2399	18	-Do-	2.16
88				Water Distribution Channel at Ouguri	1333	10	-Do-	1.20
89				Water Distribution Channel at Bundlung Saljhar	1333	10	-Do-	1.20
90				Water Distribution Channel at Bundlung Chanchaliapara	1204	9	-Do-	1.06
91	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	Water Distribution Channel at Garuchatka Pt-I	1999	15	-Do-	1.80
92				Water Distribution Channel at Bongaon	2666	20	-Do-	2.40
93				Water Distribution Channel at Khutabari Pt-IV	1333	10	-Do-	1.20
94				Water Distribution Channel	667	5	-Do-	0.60

				at Bardol Pt-I				
95				Water Distribution Channel at Bardol Pt-II	667	5	-Do-	0.60
96				Water Distribution Channel at Ghilabari	667	5	-Do-	0.60
97				Water Distribution Channel at Kauridubi Telipara	667	5	-Do-	0.60
98				Water Distribution Channel at Gohiabari	1999	15	-Do-	1.80
99				Water Distribution Channel at Dhantola Pt- II	1333	10	**2017-18**	1.20
100				Water Distribution Channel at Dhantola Pt- I	2666	20	-Do-	2.40
101				Water Distribution Channel at Sikajuli Ghagra Moamari	1333	10	-Do-	1.20
102				Water Distribution Channel at Sikajuli	1703	13	**2018-19**	1.53

				Ghagra Moamari				
103				Excavation of Pond at Bamunigaon Pt-I	2249	25	-Do-	3.04
104				Excavation of Pond at Bamunigaon Pt-II	2072	23	-Do-	2.80
105				Excavation of Pond at Kathalmuri Palsa	947	11	-Do-	1.28
106				Excavation of Pond at Ghagra Pahar	2841	32	-Do-	3.84
107	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	Excavation of Pond at Budlung Saljhar	947	11	-Do-	1.28
108				Excavation of Pond at Ghagra Saljhar	680	8	-Do-	0.92
109				Excavation of Pond at Ulubari Noytara Excavation of Pond at Chowtara Beel	1124	13	-Do-	1.52
110				Excavation of Pond at Garuchatka Pt-I	6808	77	-Do-	9.20
111				Excavation of Pond at Tiplai Pt- II	2249	25	-Do-	3.04
112				Excavation of Pond at Khutabari Pt-I	1124	13	-Do-	1.52

113				Excavation of Pond at Khutabari Pt-II	1136	21	**2018-19**	2.56
114				Excavation of Pond at Khutabari Pt-III	1124	13	-Do-	1.52
115				Excavation of Pond at Khutabari Pt-IV	1124	13	-Do-	1.52
116				Excavation of Pond at Khutabari Pt-V	2818	32	-Do-	3.80
117				Excavation of Pond at Bardol Pt-I	1124	13	-Do-	1.52
118				Excavation of Pond at Bardol Pt-I	568	7	-Do-	0.77
119				Excavation of Pond at Bardol Pt-II	1894	21	-Do-	2.56
120				Excavation of Pond at Ghilabari	2841	32	-Do-	3.84
121				Excavation of Pond at Kauridubi Telipara	1124	13	-Do-	1.52
122				Excavation of Pond at Garuchatka Pt-II	3019	34	-Do-	4.08
123	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	Excavation of Pond at Gohiabari	2854	32	-Do-	3.80
124				Excavation of Pond at	2818	32	-Do-	3.80

				Dhantola Pt- II				
125				Excavation of Pond at Dhantola Pt- I	3320	37	-Do-	4.49
126				Excavation of Pond at Tiplai Pt-I	5683	64	-Do-	7.68
127				Excavation of Pond at Tiplai Pt-II	4913	55	-Do-	6.64
128				Excavation of Pond at Sikiajuli Ghagramoimari	7540	85	-Do-	10.19
129				Small Earthen Check Dam at Ambari Pt-III	4593	31	**2019-20**	3.68
130				Renovation of Pond at Bongaon	2127	24	-Do-	2.88
131				Renovation of Pond at Bardol Pt-II	352	4	-Do-	0.47
132				Renovation of Pond at Ghilabari	352	4	-Do-	0.47
133				Renovation of Pond at Kauridubi Telipara	1125	13	-Do-	1.52
134				Const. of Brick Channel at Barbori	1125	21	-Do-	2.50
135				Const. of Brick Channel at Kuchdhowa Pt-II	1921	36	-Do-	4.28

136				Const. of Brick Channel at Khilamari	1440	27	-Do-	3.20
137				Const. of Brick Channel at Nabagata Simlitola	2061	38	-Do-	4.58
138				Const. of RCC Check Dam at Toplakhowa Pt-II	9265	53	-Do-	6.39
139	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	Const. of RCC Check Dam at Kankata Pt-I	7250	42	-Do-	5.00
140				Const. of RCC Check Dam at Chatabari	10048	58	-Do-	6.93
141				Const. of RCC Check Dam at Chowkapara Kahibari	6046	35	-Do-	4.17
142				Const. of RCC Check Dam at Bhalukjuli	6046	35	-Do-	4.17
143				Const. of RCC Check Dam at Budlung Garopara	9976	57	-Do-	6.88
144				Const. of RCC Check Dam at Budlung Pahar	6046	35	-Do-	4.17

145				Excavation of Pond at Domnapara	3330	35	-Do-	4.50
146				Excavation of Pond at Kankata Pt-II	2956	21	-Do-	2.56
147				Excavation of Pond at Simlitola	3700	42	-Do-	5.00
148				Const. of Community Pond at Kahibari Garopara	1440	17	-Do-	2.00
149				Const. Of Drainage Channel(Brick) at Gerua	5550	42	-Do-	5.00
150				Const. of Brick Channel at Komarpota	2475	42	-Do-	5.50
151				Excavation of Pond at Khilamara	1894	21.32	-Do-	2.56
152				Land Reclamation by Drainage Channel at Bhalukjuli	1332	16	-Do-	1.80
153				Guide Bund at Bhalukjuli	1837	13	**2020-21**	1.47
154				Water Distribution Channel at Bhalukjuli	3466	26	-Do-	3.12
155	**Rangjuli**	**DoLR**	**(Watershed Devel**	Excavation of Pond at	2220	25	-Do-	3.00

				Bhalukjuli				
156				Water Distribution Channel at Budlung Pahar	1333	10	-Do-	1.20
157				Excavation of Pond at Budlung Pahar	1440	17	-Do-	2.03
158				Brick Channel at Kahibari Garopara	1530	29	-Do-	3.40
159				Guide Bund at Kahibari Garopara	3750	25	-Do-	3.00
160				Excavation of Pond at Budlung Garopara	1879	21	-Do-	2.54
161				RCC Check Dam at Kankata Pt-I	6046	35	-Do-	4.17
162				Guide Bund at (Phulnoi)Kankata Pt-I	1925		-Do-	1.54
163				Excavation of Pond at Kankata Pt-I	1894	21	-Do-	2.56
164				Community Pond at Kankata Pt-I	1440	17	-Do-	2.00
165				Drainage Channel at Kankata Pt-II	1333	10	-Do-	1.20

166				Community Pond at Kankata Pt-II	1480	17	-Do-	2.00
167				Excavation of Pond at Chatabari	1256		-Do-	1.40
168				Drainage Channel at Chowkapara Kahibari	1500	10	-Do-	1.20
169				Guide Bund at Chowkapara Kahibari	2500	17	-Do-	2.00
170				Contour Bund at Chowkapara Kahibari	1500	10	-Do-	1.20
171	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	RCC Check Dam at Kannyakuchi	3146	17	-Do-	2.17
172				Guide Bund at Kannyakuchi	3750	25	-Do-	3.00
173				Brick Channel at Barbari	612	11	-Do-	1.36
174				Excavation of Pond at Barbari	444	5	-Do-	0.60
175				Land Reclamation at Toplakhowa	2819	32	-Do-	3.81
176				Excavation of community Pond at Toplakhowa	2220	25	-Do-	3.00
17				Excavation of Pond	3085	35	-Do-	4.17

7				at Toplakhowa				
178				Guide Bund at Kochdhowa	3000	20	-Do-	2.40
179				Drainage Channel at Kochdhowa	4444	33	-Do-	4.00
180				Excavation of Pond at Kochdhowa	888	10	-Do-	1.20
181				Contour Bund at Simlitola T.E.	1500	10	-Do-	1.20
182				Water Distribution Channel at Kahibari Pt-I	9265	71	-Do-	8.34
183				Guide Bund at Kahibari Pt-I	3750	25	-Do-	3.00
184				Water Distribution Channel at Alibari	1333	10	-Do-	1.20
185				Guide Bund at Alibari	6250	42	-Do-	5.00
186				Guide Bund at Kahibari Pt-II	4275	28	-Do-	3.42
187	**Rangjuli**	**DoLR**	**PMKSY (Watershed Development)**	Excavation of Pond at Nobagota (Simlitola)	5920	69	-Do-	8.00
188				Guide Bund at Kamarpoti	3750	25	-Do-	3.00

189				Excavation of Pond at Simlitola	1480	17	-Do-	2.09
190				Contour Bund at Gerua	5000	33	-Do-	4.00
191				Earthen Guide Bund at Gerua.	2700	17	-Do-	2.16
192				Excavation of Pond at Gerua	2220	25	-Do-	3.04
193				Excavation of Pond at Kankata Pt-II	2960	33	-Do-	4.00
Total								**1656.12**

Sl. No.	***Name of the Blocks /Sub Districts***	***Concerned Ministry/ Department***	***Component***	***Name of the Activity***	***Total Number/ Capacity (cum)***	***Command Area/Irrigation Potential /Benefitted Area (Ha)***	***Period of Implementation (5/7yrs)***	***Estimated cost (Rs. in Lakh.)***
1	**2**	**3**	**4**	**6**	**7**	**8**	**9**	**10**
1	**Jaleswar**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check Dam with Brick Channel at Marishbari	72500	55.6	**2016-17**	50.00
2				R.C.C Check Dam at Dhumerghat	507.5	38.9	**2017-18**	35.00
3				R.C.C Check Dam at Kurshapakhri Pt-II	58000	44.4	-Do-	40.00

4				R.C.C Check Dam at Amdang	29000	22.2	-Do-	20.00
5				Earthen & Brick Channel at Hasdoba	55550	100.0	**2018-19**	50.00
6				Brick Channel at Kurshapakhri Pt-III	9000	40.0	-Do-	20.00
7				Earthen & Brick Channel at Gossaidubi (Hindupara)	38885	70.0	-Do-	35.00
8				Earthen & Brick Channel at Gossaidubi (Muslimpara)	22220	40.0	**2019-20**	20.00
9				Farm Pond at Takimari	28571	80.0	-Do-	40.00
10	**Jaleswar**	**DoLR**	**PMKSY (Watershed Development)**	Brick Channel at Takimari	9000	40.0	-Do-	20.00
11				Brick Channel at Kharubhaj	9000	40.0	**2020-21**	20.00
12				Farm Pond at Rajmitapantai	37000	100.0	-Do-	50.00
13				Construction of Earthen	2099	16.0	**2016-17**	1.90

				Channel at Dholakura				
14				Construction of Earthen Channel at Kathuri	1755	13.0	-Do-	1.58
15				Construction of Earthen Channel at Khabu Bhaj	1755	13.0	-Do-	1.58
16				Construction of Field Bund at Chilar Bhita	2737	18.0	-Do-	2.19
17				Construction of Graded Bund at Bodhodia	3287	22.0	-Do-	2.63
18				Construction of Graded Bund at dholakura	4100	27.0	-Do-	3.29
19				Construction of Graded Bund at Haguripura	4100	27.0	-Do-	3.29
20				Construction of Graded Bund at Rajmita Pantai	2737	18.0	-Do-	2.19
21				Construction of Graded Bund at Simulkandi	4100	27.0	-Do-	3.29
22				Construction of Graded Bund at Takimari Grassing	2737	18.0	-Do-	2.19

				Reserve				
23				Construction of Brick Channel at Bouratol	1375	25.0	-Do-	3.06
24				Reclamation of Drainage Channel at Bodhodia	1755	13.0	-Do-	1.58
25				Reclamation of Drainage Channel at Bouratol	1755	13.0	-Do-	1.58
26	**Jaleswar**	**DoLR**	**PMKSY (Watershed Development)**	Reclamation of Drainage Channel at Manashpara Reserve	1755	14.0	-Do-	1.58
27				Construction of RCC Check Dam at Kathuri	11223	64.0	-Do-	7.74
28				Construction of RCC Check Dam at Khabu Bhaj	11223	10.0	-Do-	7.74
29				Construction of Excavated Pond at Bouratol	873	10.0	-Do-	1.18
30				Construction of Excavated Pond at Dholakura	873	10.0	-Do-	1.18
31				Construction of Excavated Pond at	873	10.0	-Do-	1.18

				Haguripur a				
32				Constructi on of Excavated Pond at Rajmita Pantai	873	10.0	-Do-	1.18
33				Constructi on of Excavated Pond at Simulkan di	873	10.0	-Do-	1.18
34				Constructi on of Excavated Pond at Sulkani (Para)	873	10.0	-Do-	1.18
35				Constructi on of Excavated Pond at Takimari Grassing Reserve	873	10.0	-Do-	1.18
36				Reclamati on of Marshy Land/Com munity Pond at Rajmita Pantai	2116	24.0	-Do-	2.86
37				Reclamati on of Sandy Land at Haguripur a	-	2.4	-Do-	1.21
38				Creation of Horticultu re Plantation at Bourartol	-	1.0	-Do-	1.45
39				Creation of Horticultu re Plantation	-	1.0	-Do-	1.45

				at Chilar Bhita				
40	**Jaleswar**	**DoLR**	**PMKSY (Watershed Development)**	Creation of Horticulture Plantation at Karaibari	-	1.0	**2017-18**	1.45
41				Creation of Horticulture Plantation at Manashpara Reserve	-	1.0	-Do-	1.45
42				Creation of Horticulture Plantation at Niz Bulikachi	-	1.0	-Do-	1.45
43				Creation of Horticulture Plantation at Septibari	-	1.0	-Do-	1.45
44				Creation of Horticulture Plantation at Sulkani(Para)	-	1.0	-Do-	1.45
Total								**469.84**

Sl. No.	Name of the Blocks /Sub Districts	Concerned Ministry/ Department	Component	Name of the Activity	Total Number/ Capacity (cum)	Command Area/Irrigation Potential /Benefitted Area (Ha)	Period of Implementation (5/7yrs)	Estimated cost (Rs. in Lakh.)
1	2	3	4	6	7	8	9	10
1	**Khormuza**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check Dam with Brick Channel at Simlabari	58000	44.4	**2016-17**	40.00
2				Brick Channel at Karaikhowa	9000	40	-Do-	20.00
3				Brick Channel at Hatisila Basbari	22500	100	-Do-	50.00
4				R.C.C Check Dam with Brick Channel at Amtola	72500	55.6	-Do-	50.00
5				Farm pond at Jhunkaipara	37000	100	-Do-	50.00
6				Brick Channel at Sabaji Baguan	18000	80	-Do-	40.00
7				Farm Pond at Choto Baguan	14286	40	**2017-18**	20.00

8				Construction of Drainage Channel at Garogh at	1755	13	-Do-	1.58
9				Construction of Drainage Channel at Sibaji Ozangar	2633	20	-Do-	2.37
10	**Khormuza**	**DoLR**	**PMKSY (Watershed Development)**	Construction of Drainage Channel at Bangalijhar	2633	20	-Do-	2.37
11				Excavation of Pond at Haldibari	1924	22	-Do-	2.60
12				Excavation of Pond at Sibji Ozagnar	1702	19	**2018-19**	2.30
13				Construction of Slab culvert at Garogh at Khoda	-	-	-Do-	1.00
14				Construction of Agri Bund at Garogh at Khoda	4100	27	-Do-	3.29
15				Construction of	2737	18	-Do-	2.19

				Agri Bund at Sibji Ozagnar				
16				Construction of Earthen Channel at Bangalijhar	2633	20	-Do-	2.37
17				Construction of Field Bund at Haldibari	2737	18	-Do-	2.19
18				Construction of Graded Bund at Bangalijhar	3362	22	**2019-20**	2.63
19				Creation of Horticulture Plantation at Haldibari	-	-	-Do-	0.19
20				Creation of Horticulture Plantation at Haldibari	-	-	-Do-	0.56
TOTAL								**295.63**

Sl. No.	*Name of the Blocks/ Sub Districts*	*Concerned Ministry/ Department*	*Component*	*Name of the Activity*	*Total Number/ Capacity (cum)*	*Command Area/Irrigation Potential /Benefitted Area (Ha)*	*Period of Implementation (5/7yrs)*	*Estimated cost (Rs. in Lakh.)*
1	**2**	**3**	**4**	**6**	**7**	**8**	**9**	**10**
1	**Kushdhowa**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check dam With Water Distribution Brick Channel at Nichangram	72500	55.6	**2016-17**	50.00
2				R.C.C Check Dam at Damra	29000	22.2	-Do-	20.00
3				R.C.C Check dam & Brick Channel at Dohela	145000	111.1	**2017-18**	100.00
4				R.C.C Check Dam at Rongrang para	101500	77.8	-Do-	70.00
5				R.C.C Check Dam at Bangal para	43500	33.3	-Do-	30.00
6				Farm Pond at Bangal para	43500	60	-Do-	30.00
7				R.C.C Check Dam at	43500	33.3	**2018-19**	30.00

				Bainpara				
8				R.C.C Check Dam at Majjakheli Ph-I	43500	33.3	-Do-	30.00
9				R.C.C Check Dam at Majjakheli Ph-II	43500	33.3	-Do-	30.00
10				R.C.C Check Dam at Darangiri	43500	33.3	-Do-	30.00
11				R.C.C Check Dam at with Brick Channel Damra Patpara	72500	55.6	-Do-	50.00
12	**Kushdhowa**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check Dam with Brick Channel at Lela	72500	55.6	**2019-2020**	50.00
13				Farm Pond at Toplakhowa	58000	80	-Do-	40.00
14				R.C.C Check Dam with Brick Channel at Hatimu	72500	55.6	-Do-	50.00

				ra Salpara				
15				Farm Pond at Kushdhowa	14800	40	**2020-2021**	20.00
16				R.C.C Check Dam with Brick Channel at Rishu Belpara	101500	77.8	-Do-	70.00
TOTAL								**700.00**

Sl. No.	***Name of the Blocks /Sub Districts***	***Concerned Ministry/ Department***	***Component***	***Name of the Activity***	***Total Number/ Capacity (cum)***	***Command Area/Irrigation Potential /Benefitted Area (Ha)***	***Period of Implementation (5/7yrs)***	***Estimated cost (Rs. in Lakh.)***
1	**2**	**3**	**4**	**6**	**7**	**8**	**9**	**10**
1	**Krishnai**	**DoLR**	**PMKSY (Watershed Development)**	R.C.C Check Dam with Brick Channel at Khardang	28409	27.8	**2016-17**	25.00
2				R.C.C Check Dam with Brick Channel at Bamunipanikhowa	45455	44.4	-Do-	40.00
3				R.C.C Check Dam with Brick Channel at Fafanga	39773	38.9	**2017-18**	35.00
4				Brick Channel at Khamar Manikpur	444	40	-Do-	20.00

5				Brick Channel at Bhelakhamar	667	60	-Do-	30.00
6				R.C.C Check Dam at with Brick Channel Khongkhal	56818	55.6	**2018-19**	50.00
7				R.C.C Check Dam at with Brick Channel Selapara	39773	38.9	-Do-	35.00
8				Brick Channel at Torengthop	556	50	**2019-20**	25.00
9				Water Distribution Channel(Brick) at Belpara Pt-I	667	60	-Do-	30.00
10				R.C.C Check Dam with Brick Channel at Sotu matia	79545	77.8	**2020-21**	70.00
TOTAL								**360.00**

Sl. No.	***Name of the Blocks /Sub Districts***	***Concerned Ministry/ Department***	***Component***	***Name of the Activity***	***Total Number/ Capacity (cum)***	***Command Area/Irrigation Potential /Benefitted Area (Ha)***	***Period of Implementation (5/7yrs)***	***Estimated cost (Rs. in Lakh.)***
1	**2**	**3**	**4**	**6**	**7**	**8**	**9**	**10**
1	**Balijana**	**DoLR**	**PMKSY (Watershed Development)**	Brick Channel at Bardamal	15750	70	**2016-17**	35.00
2				R.C.C Check Dam at	54000	33.3	-Do-	30.00

				Dwarka				
3				R.C.C Check Dam with Brick Channel at Gajapara	39773	61.1	-Do-	55.00
4				Earthen & Brick Channel at Babupara	77770	140	**2017-18**	70.00
5				Brick Channel at Bhendra	13500	60	-Do-	30.00
6				R.C.C Check Dam with Brick Channel at Bardamal	56818	77.8	-Do-	70.00
7				R.C.C Check Dam with Brick Channel at Hatimara	22727	55.6	**2018-19**	50.00
8				Earthen Drainage Channel at Solmari (Agia)	22220	40	-Do-	20.00
9				Brick Channel at Deuli	9000	40	-Do-	20.00

10	**Balijana**	**DoLR**	**PMKSY (Watershed Development)**	Farm Pond at Kuuabhasa	37000	100	-Do-	50.00
11				Brick Channel at Borjhora Pt- I	22500	100	**2019-20**	50.00
12				Brick Channel at Sandamari Satboni	22500	100	-Do-	50.00
13				R.C.C Check Dam with Brick Channel at Daridu ri	72500	55.6	**2020-21**	50.00
14				R.C.C Check Dam with Brick Channel at Borvita	43500	33.3	-Do-	30.00
TOTAL								**610.00**