



DISTRICT IRRIGATION PLAN
DARRANG, ASSAM



District Irrigation Plan, 2016-2020 Darrang, Assam



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Foreword by DLIC

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Executive Summary

Introduction

Irrigation sector is the biggest user of available fresh water resources, as nearly 78% of it is being utilized for irrigation purposes in India, which may reduce to 70% by 2050 due to ever increasing demand in other lucrative sectors. The National Commission for Integrated Water Resources Development (NCIWRD) Estimated total withdrawal for 2010 for all types of uses as 710 BCM for high projection scenario.

The irrigation sector accounted for nearly 78% followed by domestic use 6%, industries 5%, power development 3% and other activities claimed about 8% including evaporation losses, environment and navigation requirements. The total water requirement for the year 2050 has been estimated as 1180 BCM of which the demand for irrigation sector is nearly 68% followed by domestic use 9.5%, industries 7% power development 6% and other activities 9.5% including evaporation losses, environment and navigational requirements. To meet the diverse types of water demands of the society, various facilities/systems comprising of reservoirs, diversion structures, canals, pump houses, overhead tanks, piped supply system etc. have been created.

Background

Being situated in subtropical zone, Assam is characterized by hot and wet summer and dry and cool winter. The average annual rainfall varies from 1500mm to 3100 mm and the Potential Evapo-transpiration (PET) is less than the precipitation for greater parts of the year which is 995 mm to 1722mm in the Brahmaputra Valley and 1186 mm in the Barak Valley. Assam is endowed with vast natural resources viz. land and water with inherent fertile soil. Two important river basins of the region are Brahmaputra and Barak and the natural surface water available in these basins are estimated at 58 M ha-m. Besides, the state has an extensive network of tributaries, streams and lakes from which water can be lifted for irrigation by appropriate water lifting devices. However, the area under assured irrigation in Assam is only about 20% of the net cropped area while the total irrigation potential created is 10.48 lakh ha, which is about 37% of the net cropped area. In the case of the Sonitpur district, the net cropped area is 151817 ha and the cultivable area is 165129 ha out of which the area

under assured irrigation is about 25%. The annual replenish able and available ground water for Assam as a whole is 27.23 BCM/yr and 24.89 BCM/yr respectively.

Agriculture sector being the main consumer of water, the implied increase in food demand to feed the growing population will increase the pressure on the water resources. In India, per capita water availability is continually declining from 5176 cum in 1951 to 1703.6 cum in 2005. The only option for addressing the water scarcity and attaining the food self-sufficiency is to increase water productivity and for this certain clear cut management strategies may be adopted. Therefore, a comprehensive and holistic plan has to be formulated at gram panchayat/block, district and the state level so that the proper management of water resources may be made for creation of assured irrigation potential at every crop field (Har Khet Ko Pani) of the district. The 'Pradhan Mantri Krishi Sinchayee Yojana' has been launched by Government of India in 2015-16 to allow states to draw up their plan for irrigation development based on District Irrigation Plan(DIPs) and State Irrigation Plans(SIPs) with a horizon of 5-7 years.

Vision

Out of about 141 M Ha net area sown in the country, about 65 million hectare (or 45%) is presently covered under irrigation. Substantial dependency on rainfall makes cultivation in unirrigated areas a high risk, less productive profession. Empirical evidences suggest that the assured or protective irrigation encourages farmers to invest more in farming technology and inputs leading to productivity enhancement and increased farm income.

The overarching vision of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) will be to ensure access to some means of assured and protective irrigation to all agricultural farms throughout the country, to produce 'Per drop more crop', thus bringing much desired rural prosperity. Keeping this vision in mind, the District Irrigation Plan of Sonitpur District is prepared to ensure irrigation coverage to all the agricultural farms in the district.

Objectives

PMKSY has the following objectives -

- a) Achieve convergence of investments in irrigation at the field level.

- b) Enhance the physical access of water on the farms and expand cultivable area under assured irrigation (Har Khet Ko Pani)
- c) Efficient 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 extend.
- 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) Development of rain fed areas using the watershed approach towards soil & water conservation, arresting runoff, providing livelihood options etc.
- h) Promote extension activities relating to water harvesting, water and crop management/alignment for farmers and grass root level functionaries.
- i) Attract greater private investments in Irrigation.
- j) Integration of water source, distribution and its efficient use, to make best use of water through appropriate technologies and practices.

Strategy/Approach:

PMKSY focuses on the following issues-

- a) Creation of new water sources, repair, restoration and renovation of defunct water sources.
- b) Developing/augmenting distribution networks in the case of assured/ protective irrigation.
- c) Promotion of scientific moisture conservation and runoff control measures to improve ground water recharge so as to allow the farmers to access the recharged water through shallow tube/dug wells etc.
- d) Promoting efficient water conveyance and field application devices within the farm viz., underground PVC, Drip & Sprinklers, pivots, rain-guns etc.
- e) Encouraging community irrigation through registered user groups / NGO.
- f) Farmer oriented activities like Capacity building, training, exposure visit, demonstration, farm schools, skill development in efficient water and Crop management practices including large scale awareness on more crop per drop of water through mass media campaign, exhibitions and extension activities through animation films etc.

Rationale/justification Statement

Creating access to water source either assured or protective to each farm will require a demand and supply assessment of crop water requirement, effective rainfall and potential source of existing and new water sources considering geo hydrological and agro ecological scenario of the block. Data are required on all sources of available water sources both surface and sub surface system, distribution network, defunct water bodies, new potential water sources both surface and sub surface system, augmentation from surface and sub surface, major, medium and minor irrigation works, command area development activities exploring feasibilities for use of treated water for urban/per urban agriculture activities, precision agriculture technologies etc.

The water management problems are generally location specific and thus needs special attention for their solution. Water and irrigation requirement and scheduling of irrigation may vary in different situations. But in all cases, it should permit favourable crop yield, optimum use of water and proper attention to other factors involved (irrigation cost, ground water level, other farm operation, social and other factors. An efficient use of water supply/ irrigation scheme warrants the selection of proper crops/cultivars and management practices. In addition water may be lost from the system in run off through deep percolation to soil depth below the root zone and through soil evaporation. Higher water productivity may be achieved by reducing water losses at any stage of the production system and maximizing yield with minimum water. The water use efficiency under improved practice may be increased by adopting location specific and precision irrigation techniques. Thus the need of the irrigation for the crops should not be like supplying excess water with wastage rather it should be making optimum use of water so that there will be more crop per drop. Considering the present status of irrigation system in the district, there is a lot of opportunities under PMKSY to extend the irrigation coverage to all the un-irrigated agricultural fields in the entire district. Out of the 151817 hectares of net sown area in the district, the coverage under assured/protective irrigation is only for 42147 Ha, which is only 25% of the total available cultivable area (165129 Ha) in the district. Thus, there is a vast scope of irrigation developments in the district so that the all the farmers can have assured irrigation facilities for multiple cropping throughout the year. Accordingly as per the

guidelines of PMKSY, the District Irrigation Plan is prepared covering all the developmental blocks of the District.

Sr. No.	PMKSY Component	IP Contemplated (Ha)	Amount (Rs in Lakh)
1	AIBP	Major IS (Renovation)	12633.80
		Medium IS(New)	22000.00
		Continuation of Ongoing Minor IS	1740.74
	Total	16560	36374.54
2	Har Khet Ko Pani	New Minor IS	124600.00
		Renovation of Minor IS (Defunct/partially Operative)	3740.00
		Continuation of Ongoing Centrally funded IS	2015.99
		Continuation of Ongoing State Planned minor IS	217.07
	Total	55909	130573.06
3	Per Drop More Crop	23705.50	17886.20
4	Watershed	19385.00	2562.536
	Sub Total (1+2+3+4): (A)	115559.50	187396.34
5	Administrative Expenses & Contingencies, 5% of Sub Total (A)		9369.81
	Grand Total :		196766.15
	Say, Rs.		1967.60 Crores

The Block Irrigation Plan were prepared by holding the block level meetings represented the officials of the Line Dept., concerned Block Dev. Officers and the PRI representatives.

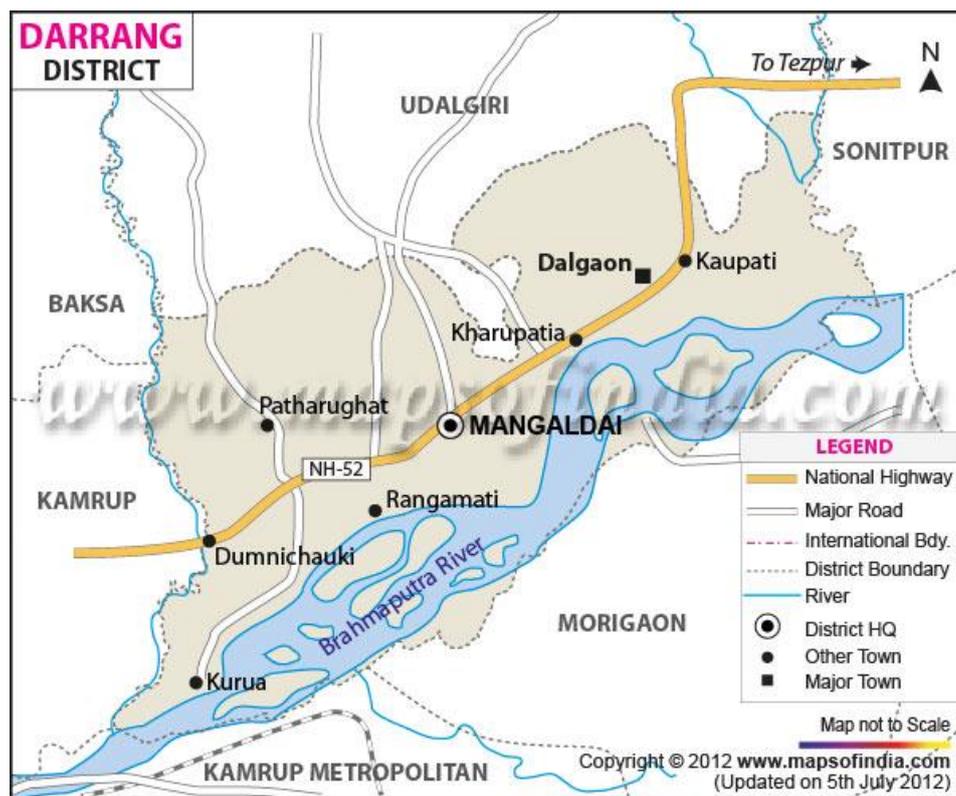
The Block level meetings were chaired by the Chairman of the concerned Anchalik Panchayats and attended by the members and president of all Gram Panchayats. The proposals have been identified for each village of the Gram Panchayats by conducting a need based analysis of the beneficiary groups subject to feasibilities. The components under PMKSY include three Line departments namely, Irrigation, Agriculture, Soil Conservation. The proposals under PMKSY (AIBP) and PMKSY (Har Khet Ko Pani) were intended to create irrigation potential by new schemes as well as renovation of the partially operative/ defunct irrigation schemes in the district. Under PMKSY (per Drop more Crop), proposals were incorporated to cover the micro irrigation and extension activities for the rural cultivators etc. The irrigation potential to be created under this component would focus on water use efficiencies of the irrigation systems. PMKSY (Watershed) targets the watershed activities viz. creating irrigation potential through water harvesting structure, Nalla and Check Bundh, Percolation and Recharge tanks besides exploring opportunities for livelihood and rural enterprises. Combining all these components, the DIP is formulated with the total cost abstract as shown below.

The project components contemplated under PMKSY are scheduled to be implemented for a period of 5 years w.e.f. 2016-17. The implementation of the PMKSY components would improve the rural economy of the district thereby the socio economic status of the farming community of Sonitpur District in particular and the Assam State in general will be uplifted. Assured irrigation facilities will make the farmers develops markets, improve the rural connectivity, and create educational and other developmental infra-structures. Living conditions will thus get improved and after all, the state's and country's development will be boosted in the long run.

Chapter 1: General Information of the District

1.1 District Profile

Darrang is situated in the central part of Assam on the northern side of the river Brahmaputra. It is a narrow strip of plain lying between Himalayas and Brahmaputra River. Placed in 20.9 N to 26.96 N latitudes and 91.45 E to 92.22 E longitudes, it has a strategic location as it shares both interstate and international boundaries with Arunachal Pradesh and Bhutan respectively. The river Brahmaputra flows in the south. Other two districts touching its borders are Sonitpur to the east and Kamrup to its west. The total area covered by the district is 1585.00 sq. km (Census 2011). Its distance from the state capital is 68 km. The climate of the district is humid and congenial.



Map 1-1: District map of Darrang

Administrative Set Up

The Deputy Commissioner of the District is the overall in charge of the administration of the entire district. He also acts as the Collector in case of Revenue matters, as a District Magistrate in case of maintenance of Law and Order and General Administration, as a

District Election Officer in case of conduct of Election, as a Principal Census Officer while conducting Census, and so on. A number of Officers, like Additional Deputy Commissioners, Sub-divisional Officers, Extra Assistant Commissioners and others assist the Deputy Commissioner in looking after administration of the district. At present the district Darrang has only one sub-division named Mangaldoi. The districts consist of 6 revenue circles. All the Revenue circles comprise a total of 561 villages. The names of Revenue Circles are Mangaldoi (Pt), Sipajhar, Patharighat (Pt), Dalgaon (Pt), Khoirabari (Pt) and Kalaigaon (Pt). The district possesses 3 towns (2 statutory towns and 1 census towns) and 6 Community Development Blocks. The district covers an area of 1,585 Sq. km out of the State total areas of 78,438 Sq. Km. The rank of the district in term of area is 22th among the district of Assam. After Census, 2001, 780 villages, Tangla TC and Udalguri TC of Darrang district was carved out for the formation of the new district of Udalguri and 1 village from Patharighat RC of the district was included in the new district of Baksa.

The Darrang district was created with effect from July 1983 by converting the erstwhile Sub-Division of Mangaldai.

Further, the district is divided into six Community Development Blocks, viz.

1. Sipajhar Development Block
2. Paschim Mangaldai Block
3. Pub Mangaldai
3. Kalaigaon Development Block
5. Dalgaon-Sialmari Development Block
6. Bechimari Development Block

The district police administration is divided into 4 Police Stations namely Mangaldai, Sipajhar, Dhula and Dalgaon and 4 Police Outposts. There are total 17 Mouza, 6 Anchilik Panchayats, 1 Zila Parishad, 75 Gaon Panchayats, 561 Revenue Villages including 9 uninhabited villages., 1 Municipal Board and 1 Town Committee in the district.

Table 1.1 District Profile

Sr. No.	Name of District	District code	Latitude	Longitude
1.	Darrang	325	20°9' N to 26°95' N	91°45' E to 92°22' E

Source: *darrang.nic.in*.

1.2 Demography

Population and its Composition

As per 2011 census, the total population of Darrang is 928500, with density of population 586 per sq. km, which is higher than the state average of 398. The decadal variation of population for 2001-2011 is 22.19 percent, which had experienced much higher decadal variations during last several decades.

Witnessing quite a sluggish process of urbanization, the overwhelming majority of people in Darrang live in the villages. The district is predominantly rural with more than 94 per cent of the total population in the district is residing in rural area while the urban population is 5.98 percent which is lower than the state average of 14.1 percent.

In terms of religious composition, around 58 per cent of the total population in the district is Hindu while the Muslim constitutes more than 35 per cent of the total population. Almost all the Muslims live in the rural areas, while around 4 percent of the Hindus live in urban areas. The other minority communities constitute less than one per cent of the total population of the district.

In the district, Dalgaon (Pt) Revenue Circle is the most populous having 473585 persons while Khoirabari (Pt) is the least populous Revenue Circle having 8398 persons. (Source: Census 2011)

Among the CD Block, Sipajhar (Part) CD Block has the highest number of population with 221556 whereas the lowest is found in Khoirabari (Part) CD Block with 8398. (Source: Census 2011)

The district comprises three (3) towns: 2 Statutory Towns and 1 Census Town. Mangaldoi (MB) is the most populous with 25989 persons while Gerimari Chapori (CT) is the smallest in population with 11004 souls. (Source: Census 2011)

While the highest number (180) inhabited villages is found in Sipajhar (Part) CD Block and lowest inhabited villages (7) is found in Khoirabari (Pt) CD Block. (Source: Census 2011)

The largest village by population is Baghpori Chapori with 9927 persons under Pub Mangaldoi (Pt) CD Block and the smallest village is Mahariadal with 1 person under Sipajhar (Part) CD Block. (Source: Census 2011)

Darrang district is basically agrarian, where more than 65 percent of the population is engaged in agriculture and allied activities. Out of the total population, 39.85 percent population is involved in agriculture as a main source of income and livelihood. Around 25 percent of the total population is agricultural labourers. Moreover, males are predominantly involved in agriculture and allied activities with 43.60 percent while women share is 27.97 percent of the total population of district. However, women are overwhelmingly in manufacturing and production in household, small scale industry, rearing of livestock and collection of forest woods etc. Like elsewhere, women are also engaged in agricultural labour.

Like the trend in the country men predominate the main worker category both in rural and urban, women outweigh men in marginal workers category. The working females in rural Darrang are mostly marginal workers. So far as the literate population is concerned, with 63.08 percent of average literate population, including 67.87 percent literate males and only 58.04 percent literate females, the district bears the burden of a huge illiterate population. The rural urban differential indicated by higher literacy for urban males (89.93%) and urban women (81.60%) highlight a wide disparity in literacy of rural and urban population, especially the deprivation of the rural women with only 56.43 percent literacy rate while rural male literacy rate is 66.32 percent (Census 2011). However, the average literacy rate between urban and rural population of the district is 85.92 percent and 61.50 percent respectively.

The educational level of the population of the district is also abysmally low with 22.75, 18.5, 20.33 and 3.38 percent respectively attaining primary, middle, Matric/ higher secondary/ diploma and graduate and above levels. According to census 2011, the sex ratio in the district is 954 females per 1000 males, which is lower than the state average of 958.

Table 1.2.a Demographic Pattern of Darrang District (As per 2011 census)

Name of the District	Total/Rural/Urban	No. of Households	Population	Male	Female	SC	ST	Literates
Darrang	Total	187783	928500	475273	453227	40260	8419	487039
	Rural	175351	873006	446460	426546	28746	8025	444075
	Urban	12432	55494	28813	26681	11514	394	42964

Source: Census 2011

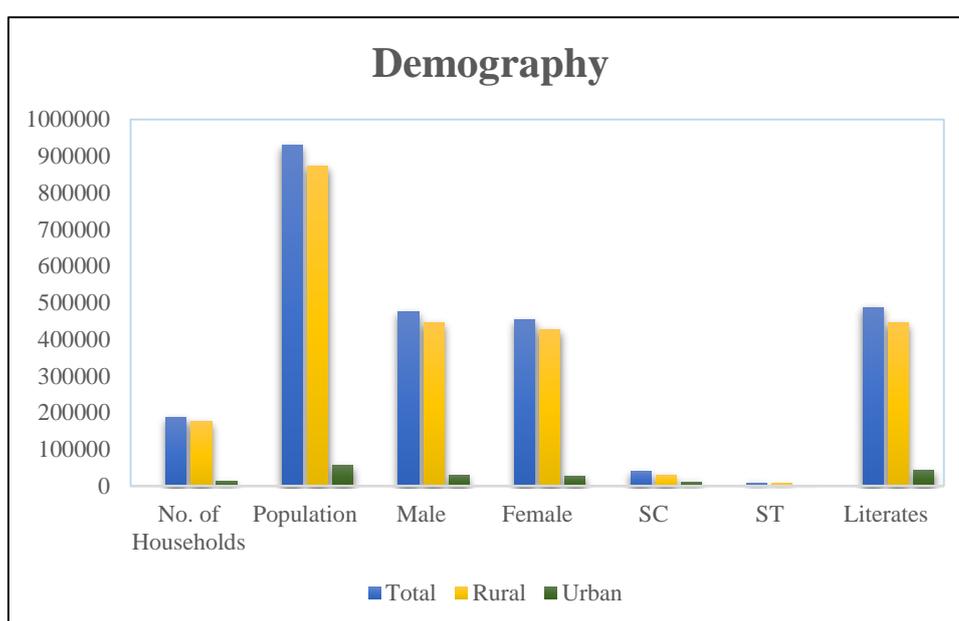


Fig. 1.1: Demographic pattern in the district

Natural Resource Base

Area under reserved forest covers 10541 hectares in the district. The main turn out of the forest produces are timber, fire-wood and other secondary products. Sericulture in the Darrang district is an age old industry giving employment to majority of rural population. There are 28 sericulture villages.

Tea is the major plantation crop in the district covering an area of 41,667 hectares and employs a large number of persons. Other plantations crops such as areca nut and coconut are also grown in district and covers less area of 4,750 ha and 981 ha respectively. The major

utilization of land in the district can be classified as follows: Forests-10541 hectars, land put to non-agricultural uses-12,434 ha, permanent pastures and other grazing land-3105 ha and land under miscellaneous tree crops etc. 4760, cultivable waste-3250, and current fallows-2362. The net areas sown in the district are 73319 ha.

Table 1.2.b Comparison for distribution of workforce in district and State

District / State	Total Workers			Main Workers			Marginal Workers				Non-Workers		
	Person	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	
Darrang	Person	324843	305157	19686	241456	223874	17582	83387	81283	2104	603657	567849	35808
	Male	246864	230242	16622	209831	194581	15250	37033	35661	1372	228409	216218	12191
	Female	77979	74915	3064	31625	29293	2332	46354	45622	732	375248	351631	23617
Assam	Person	11969690	10368283	1601407	8687123	7311015	1376108	3282567	3057268	225299	19235886	16438751	2797135
	Male	8541560	7257852	1283708	7034642	5880174	1154468	1506918	1377678	129240	7397883	6421137	976746
	Female	3428130	3110431	317699	1652481	1430841	221640	1775649	1679590	96059	11838003	10017614	1820389

Source: Census 2011

Table 1.2.c Block wise Demography of Darrang District

Name of the District	Name of the Block	Total no. of Villages	No. of Gram Panchayats	Total Geographical Area (in Hectares)	Total Households	Population			Scheduled Castes Population					Scheduled Tribes Population					General		Total	
						T	M	F	NH	T	M	F	C(0-6 yrs.)	NH	T	M	F	C(0-6 yrs.)	NH	NM	NH	NM
Darrang	Khoirabari	7	2	17.11	1918	8398	4251	4147	101	488	258	230	56	132	635	311	324	76	1685	7275	1918	8530
Darrang	Sipajhar	93	71	481.52	47121	221556	113196	108360	1763	7910	3976	3934	908	255	1232	617	615	144	45103	214878	47121	222608
Darrang	Paschim Mangaldai	90	84	181.81	20880	92472	48062	44410	1464	6715	3378	3337	742	352	1569	785	784	164	19064	84188	20880	93378

Darrang	Pub-Mangaldai Part	39	36	202.24	34295	176604	90899	85705	2261	11710	6051	5659	1859	300	1486	797	689	137	31734	163408	34295	178600
Darrang	Kalaigaoan	25	15	96.01	16497	82606	42010	40596	351	1617	791	826	191	480	2303	1179	1124	281	15666	78686	16497	83078
Darrang	Bechimari	54	8	161.67	23774	1,24,907	63290	61617	944	4217	2195	2022	565	140	695	345	350	63	22690	119995	23774	125535
Darrang	Dalgaon-Sialmari	230	171	332.09	33435	177467	90439	87028	295	1458	753	705	178	52	242	131	111	20	33088	175767	33435	177665

T- Total, M- Male, F- female, NH- No. of Household, NM-No. of Members, C- Children

Source: Census 2011

Table 1.3.a Block wise Biomass and Livestock of Darrang District

Sr. No.	Name of the Block	Green Hoyer (Ha)	Availability of fuel food (quintal/years)	Biomass yield (quintal/years)	Fodder yield (quintal/years)	Small Animals					Large Animal				Any other Milk or Meat Animal (Nos.)	Draft Animal (Buffalo/yak/bulls/any other (Nos.))	Milk Production	
						Poultry (No.)	Ducks (No.)	Pigs (Nos.)	Goats (Nos.)	Sheep (Nos.)	Indigenous Cow (Nos.)	Hybrid Cow (Nos.)	In Descriptive Buffalo (Nos.)	Hybrid Buffalo (Nos.)			Daily (ltr./day)	Annual (ltrs.)
1.	Paschim Mangaldai	NA	NA	NA	6525	101098	8591	3211	60571	13735	20577	1052	2354	-	-	898	2150	784750
2.	Bechimari	NA	NA	NA	1529	10353	2588	NIL	9211	3185	27881	1932	3418	-	-	566	675	246375
3.	Dalgaoan Sialmari	NA	NA	NA	2212	111931	1859	957	27830	10897	55761	3865	6838	-	-	1134	6995	2553175
4.	Pub-Mangaldai	NA	NA	NA	3262	19796	6263	219	4618	2203	31083	3956	3994	-	-	1041	680	244800

5.	Sipajhar	NA	NA	NA	5100	80715	69003	2884	40297	3678	79502	1926	6192	-	-	578	5100	1861500
6.	Kalaigaon	NA	NA	NA	1987	53584	35626	1582	16678	4128	5597	254	24	-	-	24	242	87264
Total					20615	377477	123930	8853	159205	37826	220401	12985	22820	0	0	4241	15842	5777864

1.3. Biomass and Livestock

Livestock

The Animal Husbandry and Veterinary department is the core sector of the state economy and has played a vital role in developing the livestock and poultry component by implementing certain development schemes both in rural and urban sector for increasing production and generating employment opportunities. Block wise biomass and livestock population in Darrang district is given in annexure. (Table 1.3.a)

Table 1.3.b Livestock Population in Darrang

Sr. No.	Livestock	No. of Population
1.	Cattle	2,33,386
2.	Buffalo	22,820
3.	Goats	1,59,205
4.	Sheep	37,826
5.	Horses & Ponies	255
6.	Mules	NA
7.	Donkeys	NA
8.	Pigs	8,853
9.	Fowls	6,20,740
10.	Ducks	1,23,930
11.	Other Poultry	-
12.	Rabbits	-
	Total	12,07,015

Source: District Animal Husbandry & Veterinary Department, Darrang

The livestock sector alone contributes nearly 25.6% of Value of Output at current prices of total value of output in Agriculture, Fishing & Forestry sector. The overall contribution of Livestock Sector in total GDP is nearly 4.11% at current prices during 2012-13.

The total livestock population in Darrang district is 12, 07,015. The major population of which is contributed by cattle and buffaloes. The total population of large animals namely, cattle and buffaloes in the district is 2, 33,386 and 22,820 respectively. However, the population of small animals such as goats are 1, 59,205. The other small animals such as fowls and ducks have also a huge population with 6, 20,740 and 1, 23,930 respectively.

Fisheries

The Darrang district has tremendous potential areas for the development of fishery and blessed with abundant water resources which consist of natural water bodies like rivers, beels, ponds, community tanks and vast stretch of low lying areas suitable for undertaking scientific fish farming. The approach of community fishery is also gaining momentum in the district.

Table 1.3.c Fisheries Resources / Infrastructure available in Darrang

Sr. No.	Resources	Area (ha)
1	Ponds and tanks	2978.2
2	Paddy cum fisheries	160
3	Derelict water bodies	802.45
4	Beel fisheries	942.2
5	River fisheries	6040
6	Eco hatchery	20
7	Magur hatchery	5
8	Others	1
Total		10,949

Source: District Animal Husbandry & Veterinary Department, Darrang

1.4 Agro, Ecology, Climate, Hydrology and Topography

Ecology, Climate, Hydrology and Topography etc. are the basic factors determining the delineation of agro-climatic zones. Based on the rainfall pattern, terrain and soil characteristics, Assam has been delineated into six agro-climatic zones viz.

1. North Bank Plain Zone (Darrang, Sonitpur, Lakhimpur, Dhemaji districts) is having 18.37 % of total state area.
2. Upper Brahmaputra Valley Zone (Golaghat, Jorhat, Sivasagar, Dibrugarh, Tinsukia districts) is having 20.40 % of total State area.
3. Central Brahmaputra Valley Zone (Nagaon, Marigaon districts) is having 7.08 % of total area of State.
4. Lower Brahmaputra Valley Zone (Goalpara, Dhubri, Kokrajhar, Bongaigaon, Kamrup, Nalbari, Barpeta districts) is having 25.75 % of total area of state.
5. Barak Valley Zone (Cachar, Karimganj, Hailakandi districts) is having 8.9% of total area of state.
6. Hill Zone (North Cachar Hills, Karbi Anglong districts) is having 19.4% of total area of state.

Based on important features of Agro-climatic zone and other important aspects like edaphic factors (soil texture, structure and depth); source of irrigation, climatic factors at micro level (rainfall, temperature variation, relative humidity) and existing farming system. The entire district is divided into four agro-ecological situations (AES).

Table 1.4.a Agro ecological situation (AES) of the District (Based on soil and topography)

Sl. No.	Agro-ecological situation	Blocks covered	Characteristics
1.	AES-1	Sipajhar, Pub-Mangaldai, Kalaigaon(Part), Khairabari (Part), Bechimari	Low land with lower elevation
2.	AES-2	Sipajhar, Pub Mangaldai, Dalgaon-Sialmari, Kalaigaon(Part), Bechimari, Paschim Mangaldai,	Upland with medium rainfall
3.	AES-3	Sipajhar, Pub Mangaldai, Dalgaon-Sialmari,	Medium land with medium rainfall

4.	AES-4	Kalaigaon(part), Khairabari (Part)	Deep water with lower elevation
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Source: District Agriculture Officer, Dept. of Agriculture, Darrang

Climate and Rainfall

The climate of the district is of humid subtropical nature with warm humid summer and cool dry winter. In the winter, the northern part of the district is colder than the rest of the district since it is covered by hills and forests of Udalguri District. The average temperature ranges from 10° to 30°C. Average annual rainfall is about 2120 mm. The maximum rainfall of the district 1272.5 mm on an average (63.4%) occurs during the month of May to August out of total rainfall 2007.2 mm. The pre-monsoon months i.e. March to April, receive 210 mm (10.5%) of rainfall which is erratic and unpredictable. Only 324.7 mm (16.12%) received during Oct–Feb. The mean annual maximum temperature varies from 28° to 34°C and minimum temperature varies from 10° to 25°C.

Dust storms are common in the southern part of the District during February to April of the year because of the proximity of the area to sand loads of the Brahmaputra. Generally December and January are the coldest months of the year. The maximum rainfall generally occurs during a period of 4 months starting from May/June. The drainage system is inadequate in the monsoon. Recurrence of flood during monsoon due to heavy rainfalls in the district and neighboring state Arunachal Pradesh and country Bhutan causes loss of crops and other properties almost every year. In recent years the District have experienced the heavy floods, to be precise, flash floods, due to heavy deforestation towards northern part. The people of the district, who mainly depend on rain water for their cultivation, are often badly affected on one hand by floods and on the other hand by occasional dry spell. On the basis of topography, physiographic, rainfall and other climate conditions the district is divided into three Agro Eco Situation viz., Medium land with medium elevation, and low land with low elevation & Deep water with low elevation.

The climate of the district is congenial. In the winter, the northern part of the district is colder than the rest of the district The average temperature ranges from 15° to 33° C. Average annual rainfall is about 2007.20 mm. The relative humidity is about 37% in the month of February/ March and about 82% in other months. The monsoon of the district commences from the end of April and intensity gradually increases up to August and then declines to the minimum during November and December.

1.4. bMonth wise rainfall in mm and number of rainy days in the Darrang district for the Year 2015

Sr. No.	Months	Rainfall (mm)	Number of Rainy Days
1	January	0	0
2	February	8	2
3	March	19	2
4	April	191	13
5	May	508.7	25
6	June	343.6	18
7	July	303.2	12
8	August	317	16
9	September	165	11
10	October	116.5	5
11	November	24	3
12	December	11.2	4
	Total	2007.2	111

Source: Rain Gauge Station, District Agriculture Office, Darrang

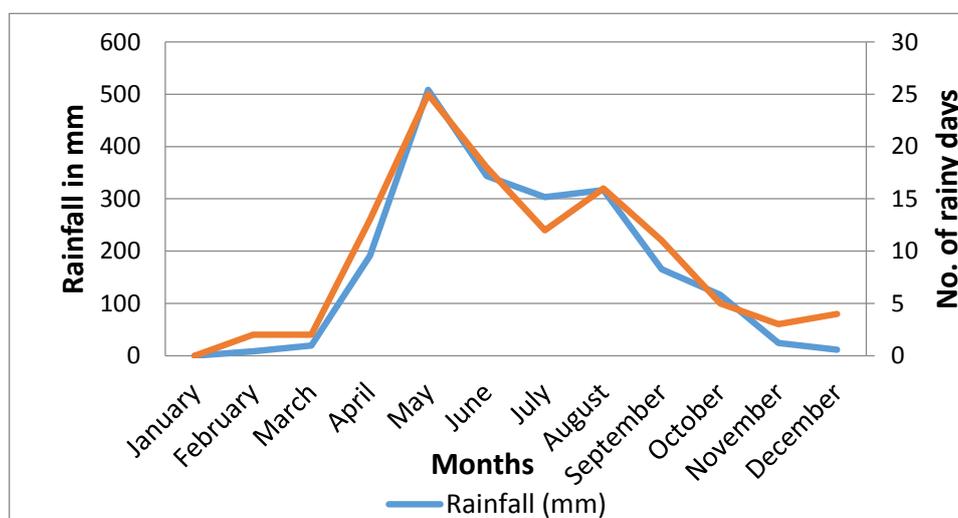


Fig. 1-2: Rainfall in the district

Temperature

The temperature in the region begins to increase from the end of February and reaches the highest point during June and July. January is the coldest month of the year. The air is highly humid throughout the year and winds are light in the district. But some of the cyclonic storm and depressions from the Bay of Bengal occur in the monsoon and post monsoon periods accompanied by heavy rain. Thunder storms occur during the period from March to May. Fog occurs in the winter

months. The average weekly minimum and maximum temperature in the summer is 28°C and 38°C respectively. However, the mean temperature in the summer is 33°C. Further, there is a significant decrease in the minimum temperature during the rainy season with 20°C and maximum temperature in this season remains 38°C. The average weekly temperature in the winter's ranges from slightly cold with 15°C to moderate temperature of 25°C. However, the mean weekly temperature in the winter season is 20°C.

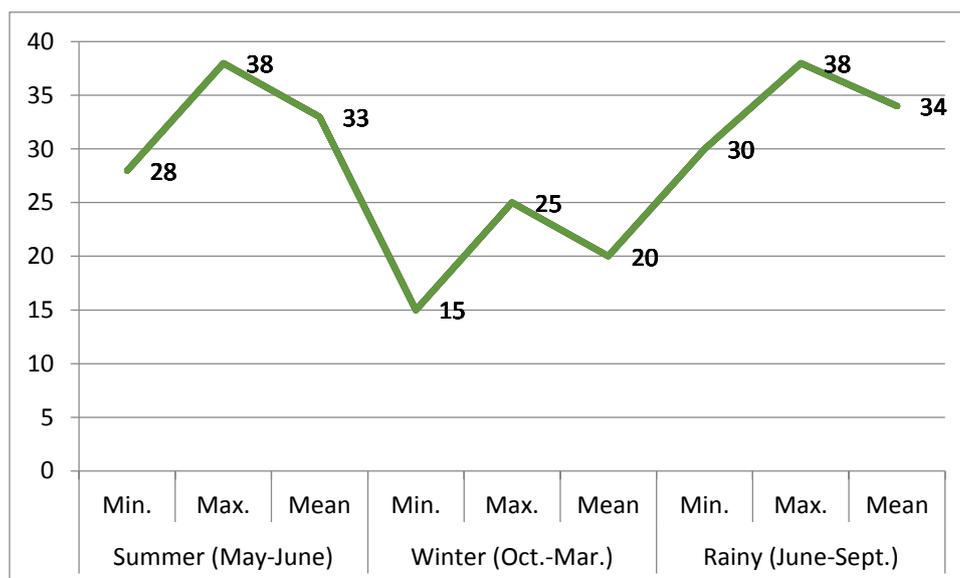


Fig. 1.3: Temperature in the district

1.5 Soil Profile

Soils type and fertility status

The District can be divided in the low-lying plains, covered plains and hills. The hills are for the most part formed of gneissic rocks and the plain is of alluvial origin and consists of sand and clay in varying proportions.

The northern border is covered by Alluvium, accompanied by another thin belt of older alluvium; the rest of the District is covered by sandstone & shale.

The soil of the district ranges from old alluvial to new alluvial type. The soil is sandy to sandy loam in texture and acidic in reaction and is characterized by medium to high organic carbon, low to medium phosphorus and potash content. The northern border is covered by Alluvium, accompanied by another thin belt of older alluvium; the rest of the District is covered by sandstone & shale. There is a small resource of coal near Udalguri.

Table 1.5 Soil Profile of the district

Sr. No.	Soil Type		Land Slope			
	Major Soil Classes	Area (ha)	0-3% (ha)	3-8% (ha)	8-25% (ha)	>25% (ha)
1	Sandy Loam	67,500	67,500	-	-	-
2	Clay Loam	49,900	35261.25	14638.75	-	-
3	Silty Clay Loam	22,500	-	22,500	-	-

Source: District Agriculture Officer, Dept. of Agriculture, Darrang

Alluvial plain soil is light grey to dark grey of recent age occurring along the major river valleys. Older alluvial soils are light grey to dark grey in color. It is unaltered alluvium representing a broad spectrum of sand, silt and humus rich bog clay depending on land form component. Red and yellow soils are low level terrace, red yellow to brick red soil have clayey plastic latasol with sedimentary structures and texture totally obliterated in the solum. Alluvial soil, are alluvial plain soils, developed along vast places of Brahmaputra basin. These are yellow to yellowish grey in color and are unaltered alluvium representing sand, silt and humus rich bog clay depending on land form component. Soil pH is generally feebly alkaline excepting bog soils. Tarai soil, soil group representing Bhabar and Tarai fall in this sub-division. These are brownish grey soil and are mainly constituted of sand with very little clay. These soil groups are generally slightly alkaline to acidic.

The soil of this district is very fertile for cultivation and the main crops are paddy, oilseeds, sugarcane and jute. The area is also known for its considerable tea productions. The main horticultural products are orange, coconut, pineapple etc. In addition, the district is rich with sizeable production of vegetables.

1.6 Soil Erosion and Runoff Status

Soil erosion is a serious problem in the district especially in the hilly regions and areas in the north bank of the Brahmaputra bordering Bhutan and Arunachal Pradesh. Sheet and river bank erosion of the Brahmaputra and landslides in the hilly terrains contribute substantially to the sedimentation problem of the rivers and productivity decline of farm land covering lakhs of hectares. The catchment of the Brahmaputra is characterized by very steep hill slopes with coarse soil texture and unstable land mass. This causes high instantaneous run-off and heavy siltation in the tributaries as well as in the channels of Main River. It is also frightening that the mighty river is drifting its course of now towards southern bank and causing sedimentation in the north bank (Sen, et al 1996).

Quantitative information on soil loss in Assam is scanty. The soil erosion and runoff status of the district is shown in Annexure II.

1.7 Land Use Pattern

Land holding

Agriculture in Darrang is characterized by small holdings operated by family labour, both men & women. Average land holding size in Darrang is 0.95 ha. However, small & marginal farmers & Landless, who make up 89 % of land holders, have an average farm size of 0.57 ha.

The fragmentation of holdings, causing low farm income and lack of financial resources is seen as the main reason for slow adoption of modern technologies and consequent poor agricultural yields and production and poverty

Land use pattern

The net sown area of the district is 73,319 ha which accounts for 46.25 percent of the geographical area of the district & the land utilization pattern in the district

The gross cropped area of the district is 1, 32,670 ha with cropping intensity of 180.95 percent. Out of the total cropped area 1, 32,670ha and that 44.7 percent are used in more than once. In same part of the district especially in Dalgaon –Sialmari and Bechimari block are used their land in four times at the same time Sipajhar and Paschim Mangaldai the farmers are sowing only Sali paddy.

Table 1.6 Land Use Pattern of the district

Name of the Gram Panchayat	Name of the Villages Covered	Total Geographical Area	Area under Agriculture				Area under Forest	Area under Waste Land	Area under Other Uses
			Gross Cropped Area (1)	Net Sown	Area Sown more than once (1-2)	Cropping Intensity			
-	-	1,58,500 Ha	1,32,670 Ha	73,319 Ha	59,351Ha	180.95	10541 Ha	3879 Ha	97319 Ha

Source: District Agriculture Officer, Dept. of Agriculture, Darrang

Chapter 2: District Water Profile

2.1 Area Wise, Crop Wise Irrigation Status

Cereals are the major crop among agricultural crops of the district. The area under cereals cultivation during 2014-15 was 65284 hectare which was around 50% of the total area under agricultural crops. Kharif is the main crop season for agricultural crops. Out of total 1, 32,670 hectare area under agriculture, 45065 hectare was cultivated during Kharif while 6826 hectare was cultivated during Rabi. In case of summer, the total area under agriculture is 13,393 hectare only.

Table 2.1: Crop wise status of irrigated and rainfed area in Darrang District

Sr. No.	Crop type	Kharif(Area in ha)			Rabi (Area in ha)			Summer crop (Area in ha)		
		Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rain fed	Total
1	Cereals	10539	34526	45065	3880	2946	6826	8924	4469	13393
2	Course Cereals	1948	1765	3713	3960	2349	6309	514	549	1063
3	Pulse	126	897	1023	858	4365	5223	6	554	560
4	Oil Seeds	28	690	718	1768	8072	9840	0	123	123
5	Fibre	19	3442	3461	26	60	86	0	0	0
6	Any other crops	877	1262	2139	2432	2469	4901	247	487	734
Total		13537	42582	56119	12924	20261	33185	9691	6182	15873

Source: District Agriculture Officer, Dept. of Agriculture, Darrang

In Darrang, 50% of the cultivated land i.e. 35416 hectare is irrigated. Out of 35416 hectare of irrigated land, the cereals crops are cultivated in 10539 hectare in Kharif while 3880 hectare of cereals are cultivated under irrigated land during Rabi. In summer a total of 8924 hectare area is cultivated with all the area under irrigated category.

Table 2-2: Status of irrigation for Horticulture and Plantation crop

Crop Type	Irrigated	Rainfed	Total
Fruits	-	6374	6374
Vegetables	-	52880	52880
Spices & Condiments	-	8211	8211
Plantation crops	41667	981	42648
Total	41667	68446	110113

Source: Agriculture Contingency Plan for District (2012-13): Darrang

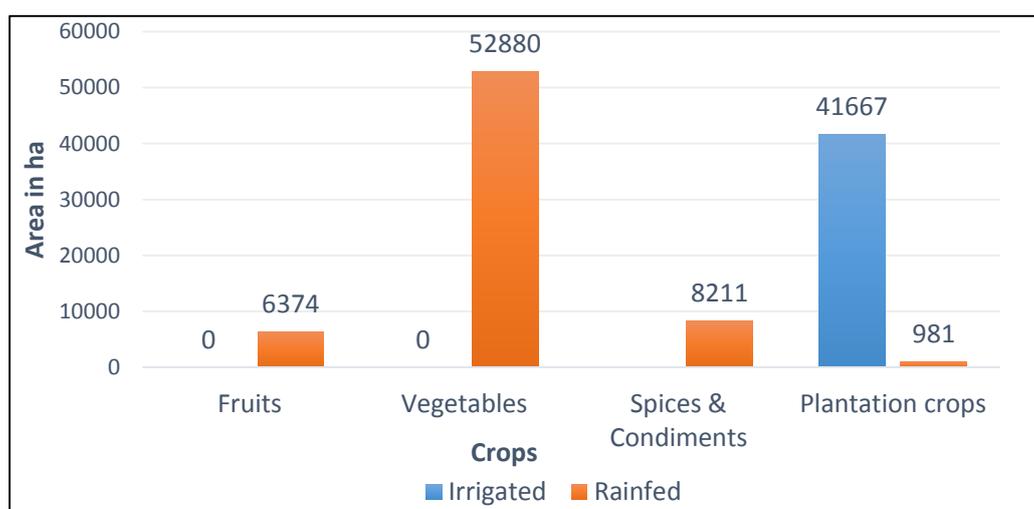


Fig. 2-1: Status of irrigation for Horticulture and Plantation crop

Among different types of horticultural crops, vegetables rank first as the total area under vegetables cultivation is 52880 hectare (48%). The total cultivable area i.e. 52880 Ha of vegetables is under rainfed condition while vegetables does not cultivate under irrigated condition. A total of 6374 hectare of land is utilized for growing fruits and the total land i.e. 100% is cultivated under rainfed conditions. Amongspices and condiments cultivation where the total area of 8211 hectare is under cultivation and the whole area is cultivated under rainfed conditions. While among plantation crops majorly tea, the total area under this category is 42648 hectare of which 41667 hectare is under irrigated condition while remaining 981 is under rainfed condition. Block wise tables for irrigation status of various crops is given in Annexure III.

2.2 Production and Productivity of Major Crops

Paddy is the principal crop grown in the district and *autumn paddy*, *winter paddy* and *summer paddy* are the three main types of paddy are grown in the district. Next to paddy, wheat, rapeseed

&mustard, sugarcane and vegetables are the main agricultural produce. Among cash crops Jute accounted for 3.2 % and Sugarcane 0.38 % of the total cropped area (source: www.aau.ac.in)

Rice is of key importance to the district's economy and the people. It is the staple food of the District's people. . The total area under rice cultivation during the year 2014-15 was 68385 ha and total production was 137877.1 MT. Almost 52% of the Gross cropped area is under rice cultivation. Developing the sector will therefore have a significant and widespread impact on the lives of the people and an economy. Further, there are considerable scopes for improving the productivity in the sector.

Production play dominant role in the socio economic upliftment of the rural areas. Winter paddy is the most important crop in the district occupying 70.6 % followed by paddy 25.4% and autumn paddy 4% of the total annual paddy area.

In the district summer rice cultivation has received more attention to avoid flood and other natural calamities to make the district self-sufficient in rice production.

Other cereal crops such as maize, wheat, small millets are having negligible area as compared to rice. Among the oilseed crops, rapeseed and mustard are the important crops with a total area of 14986 ha out of 17470 ha and contributes a share of 86%. Sugarcane is the major cash crop which covers an area of 516 ha producing 18707.58 MT.

Table 2.3:Season wise area, production and yield of agricultural crops

Season	Rainfed				Irrigated				Total		
	Area (ha)	Production (qtl/yr.)	Productivity or yield(kgs /ha)	Cost of cultivation(Rs./ha)	Area (Ha)	Production (qtl/yr.)	Productivity or yield(kgs/ha)	Cost of cultivation(Rs./ha)	Production (qtl/yr.)	Productivity or yield(kgs/ha)	Cost of cultivation(Rs./ha)
Kharif	42582	1618116	3800	22350	13537	572615.1	4230	23250	2190731	8030	45600
Rabi	15614	640174	4100	30000	12613	554972	4400	31500	1195146	8500	61500
Summer	3811	134528.3	3530	22850	9691	562078	5800	23900	696606.3	9330	46750

Horticultural & Plantation (Fruits & Veg.)	5553	832950	15000	33750	2310.5	41412.6	6120	34550	874362.6	21120	68300
Total	67560	3225768	26430	108950	38151.5	1731078	20550	113200	4956846	46980	222150

Source: District Agriculture Officer, Dept. of Agriculture, Darrang

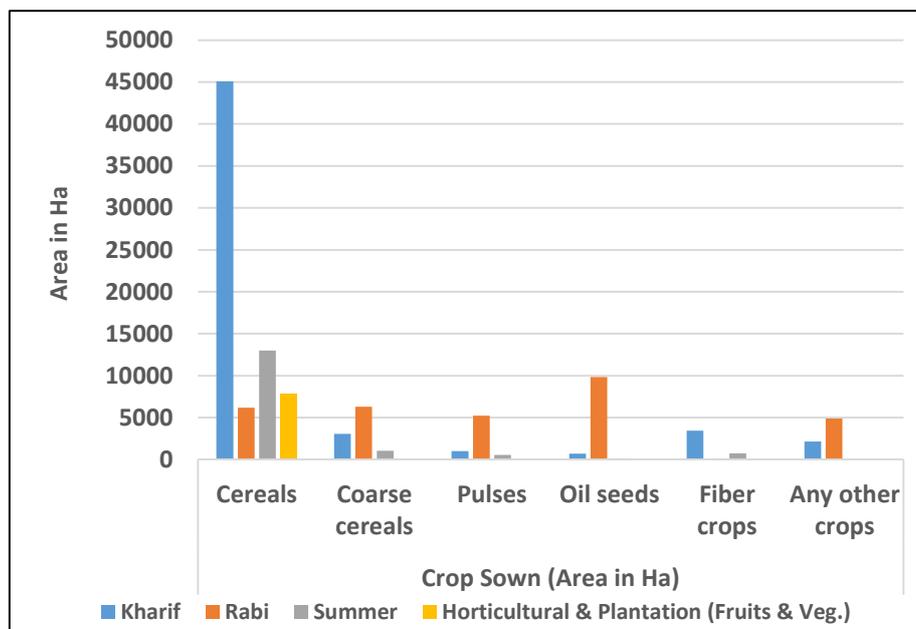


Fig. 2.2: Season wise area, production and yield of agricultural crops

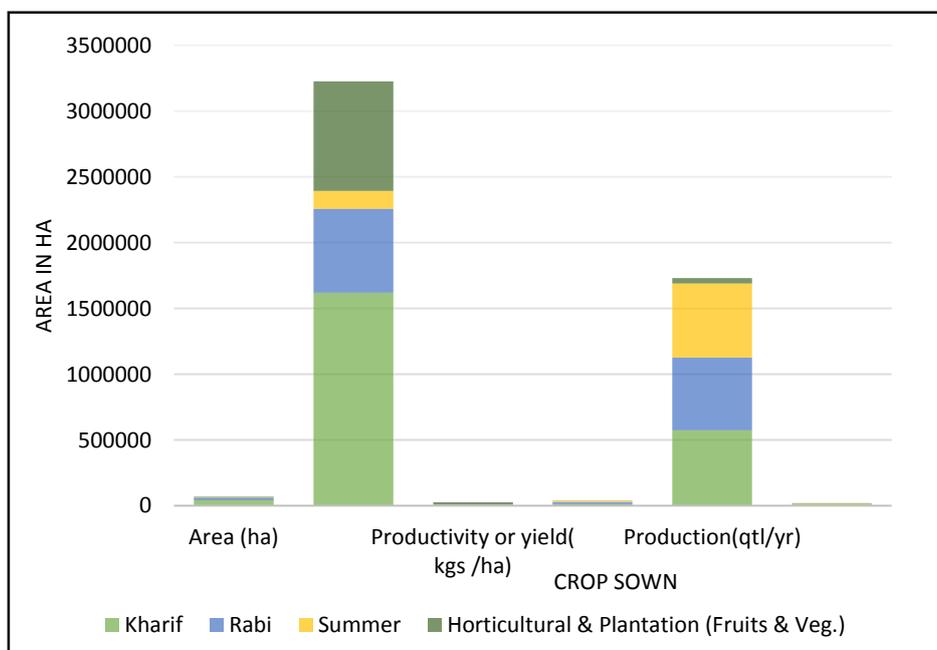


Fig. 2.3: Season wise area of crop sown in the district

2.3 Irrigation Based Classification

The gross and net irrigated area in the district have been 32765 hectares and 21843 hectares respectively. While, the total rainfed area is 10922 hectares. Due to abundant receiving of rainfall, the major portion of agriculture in the district is dependent on rainfed conditions while only less area is cultivated under irrigated conditions.

Table 2.4: Irrigation Based Classification

Irrigated (Area in Ha)		Rainfed(Area in ha)	
Gross Irrigated Area	Net Irrigated Area	Partially Irrigated/Protective Irrigation	Un- Irrigated or Totally Rainfed
32765	21843	NA	10922

Source: District Agriculture Officer, Darrang

Chapter 3: Water Availability in Darrang

3.1 Status of water availability

The ground water is restricted to 25-35 m depending on the location. Safe drinking water is a problem for the villagers and villagers use open well and pond water for domestic use including drinking purpose (PRA information). Optimum development of ground water can be achieved through conjunctive use of surface and ground water and storage and recharge of ground water.

Table 3.1: Status of water availability

		MCM per Ha			
S.No.	Sources	Kharif	Rabi	Summer	Total
1	Surface Irrigation				
(i)	Canal(Major & Medium Irrigation)	Nil	Nil	Nil	Nil
(ii)	Minor Irrigation tanks	Nil	Nil	Nil	Nil
(iii)	Lift Irrigation/Diversion	1810	968	-	2778
(iv)	Various Water Bodies including Rain Water Harvesting	-	-	-	-
(v)	Treated Effluent Received from STP	-	-	-	-
(vi)	Untreated Effluent	-	-	-	-
(vii)	Perennial sources of water	-	-	-	-
2	Ground Water				
(i)	Open Well	-	-	-	-
(ii)	Deep Tube Well	1830	880	-	2710
(iii)	Medium Tube Well	-	-	-	-
(iv)	Shallow Tube Wells	30	20	-	50

Source: District Irrigation Department, Darrang

Surface irrigation in the district is found to be common during all seasons. The total water available in Kharif is more than Rabi and summer. Most of the area is irrigated through Lift Irrigation system.

3.2 Status of Ground Water Availability

Hydrogeology

Hydro geologically, the entire area except a small pocket in the south western corner of the district is occupied by alluvial sediments of Quaternary age. Ground water occurs under unconfined condition in shallow aquifers and under semi-confined to confined condition in deeper aquifers. The aquifers are consisting of various grades of gravel, sand etc. It has a good yield prospect for both

shallow and deep tube wells. The water level rests at shallow depth and in major parts of the district, it rests between 2 and 4 m bgl during pre-monsoon period. The post monsoon water level rests between 1 and 2 m bgl and in some places, it is above ground level. The long term water level trend shows no significant changes in water level in the last 10 years in the district.

Ground Water Resources

The dynamic Ground Water Resources are estimated based on the methodology adopted as per GEC 97 following water level fluctuation and rainfall infiltration factors methods.

The annual dynamic ground water resources of the newly formed district are estimated to be 2760 MCM (half of the old Darrang district), while the net annual ground water draft is 5.44 MCM. The district is under safe category and sufficient resources are still available for development.

Ground Water Quality

To study the quality of ground water, water samples collected from GWMS and exploratory wells constructed in the district were analyzed in the Chemical Laboratory of C.G.W.B., NER, and Guwahati. The interpretation of the results of the chemical analysis shows that ground water is fresh and suitable for both the domestic and irrigation purposes. Higher contents of iron more than permissible limit occurring sporadically require treatment before being used for drinking purpose.

Status of Ground Water Development

Ground water development is at low key at present and estimated to be 230 MCM against the vast annual resources of 2760 MCM. After allocation for domestic and industrial purposes, the net annual dynamic resources for future irrigation in 2025 are estimated to be 300-350 mcm.

Table 3.2: Ground Water Availability

Status of District as per Central Ground Water Board Notification			Ground Water (MCM)		
Critical	Semi-Critical	Safe	Draft	Recharge	Gap
NIL	NIL	Darrang	5.44	NA	NA

Source: CGWB, Darrang

Ground water is mainly used for drinking and irrigation purposes and industrial use is considered to be negligible. Water supply schemes are executed by Assam Public Health Engineering Department through construction of ground water structures like dug well, hand pump and deep tube wells, etc. Ground water is used for irrigation purposes mainly through shallow tube wells implemented by Agriculture Department.

3.3 Status of Command Area

Block wise villages covered in various command(Data not available)

Table 3.3: Status of Command Area

Area in Ha									
Sl. No.	Name of the Block	Information of Canal Command			Information on the Other Services Command			Total Area	
		TA	DA	UDA	TA	DA	UDA	DA	UDA
	1	2	3	4	5	6	7	3+6	4+7
1	Paschim Mangaldai								
2	Bechimari								
3	Dalgaon Sialmari								
4	Pub-Mangaldai								
5	Sipajhar								
6	Kalaigaon								

Source: GWR, Darrang

A- Total Area, DA- Developed Area, UDA- Undeveloped Area

3.4 Existing Type of Irrigation

The total existing type of irrigation in the district is 21843. In surface irrigation category, canal based irrigation is a prominent source of irrigation in the district while in ground water category, the major source of irrigation is done by tube wells. Around 92% of the irrigation is mainly done by govt. canals while only 8% is done by govt. tube wells in the district. Kalaigaon block ranks first with 6130 govt. canals for the irrigation followed by Dalgaon- Sialmari with 4320 govt. canals. Among all blocks in the district, Sipajhar uses maximum govt. tube wells i.e. 575 as a source of irrigation followed by Bechimari with 455 govt. tube wells.

Table3.4: Existing type of Irrigation

Sources of Irrigation	Surface Irrigation		Ground Water					Total
	Canal based	Tank/Ponds/Reservoirs	Tube Wells		Open wells	Bore well		
	Govt. Canal	Ponds	Govt.	Pvt.	Community/ Govt./ Pvt.	Govt.	Pvt.	

Pub Mangaldai	FIS/ LIS/ DTW	3630	Nil	335	Nil	Nil	Nil	Nil	3965
Paschim Mangaldai	FIS/ LIS/ DTW	165	Nil	140	Nil	Nil	Nil	Nil	305
Sipajhar	FIS/ LIS/ DTW	3848	Nil	575	Nil	Nil	Nil	Nil	4423
Dalgaon Sialmari	FIS/ LIS/ DTW	4320	Nil	325	Nil	Nil	Nil	Nil	4645
Bechimari	FIS/ LIS/ DTW	1920	Nil	455	Nil	Nil	Nil	Nil	2375
Kalaigaon	FIS/ LIS/ DTW	6130	Nil	0	Nil	Nil	Nil	Nil	6130
Total		20013	-	1830	-	-	-	-	21843

Source: Water Resource Department, Darrang

Chapter 4: Water Requirement/ Demand

The earlier Chapters deal with the general profile, water profile and water availability of Surat district. The present chapter deals with the current (2016) and projected (2020) demand of water for various sectors. The demand for water has been assessed on the basis of data obtained from different departments.

4.1 Domestic Water Demand

Data of Census 2011 and 2001 has been considered to arrive at the growth rate of population of the district. As per Census 2011, the district has shown an annual growth rate of 2.22%. Table 4.1 below indicates the Block-wise population of the district. Current population (in 2016) has been calculated by assuming a growth rate of 11.1% ($2.22\% \times 5$ Years) over a period of five years (from 2011-2016). Projected population has been calculated in similar way by assuming a growth rate of 8.88% ($2.22\% \times 4$ Years) over the period of four years (from 2016-2020).

Table 4.1 Block wise Domestic Water Demand in the district (MCM)

Sr. No.	Blocks	Population as per census 2011	Population in 2016 (*)	Present Water Requirement (2016) (MCM)	Projected population in 2020 (*) (MCM)	Annual Water Requirement in 2020 (MCM)
1	Khoirabari	8398	9330	0.34	10076	3.68
2	Sipajhar	221556	246149	8.98	265823	97.03
3	Paschim Mangaldai	92472	102736	3.75	110948	40.50
4	Pub- Mangaldai Part	176604	196207	7.16	211889	77.34
5	Kalaigaon	82606	91775	3.35	99111	36.18
6	Bechimari	1,24,907	138772	5.07	149863	54.70
7	Dalgaon-Sialmari	177467	197166	7.20	212925	77.72
Total		884010	982135	35.85	1060635	387.13

Source: Census 2011

* - assessed considering the annual exponential population growth rate of 2.22%

It can be inferred from the table that considering the growth rate of population of the district, the quantity of water required in 2020 for domestic consumption shall be approximately 387.13 MCM which is 9.26 MCM times more than the present water requirement.

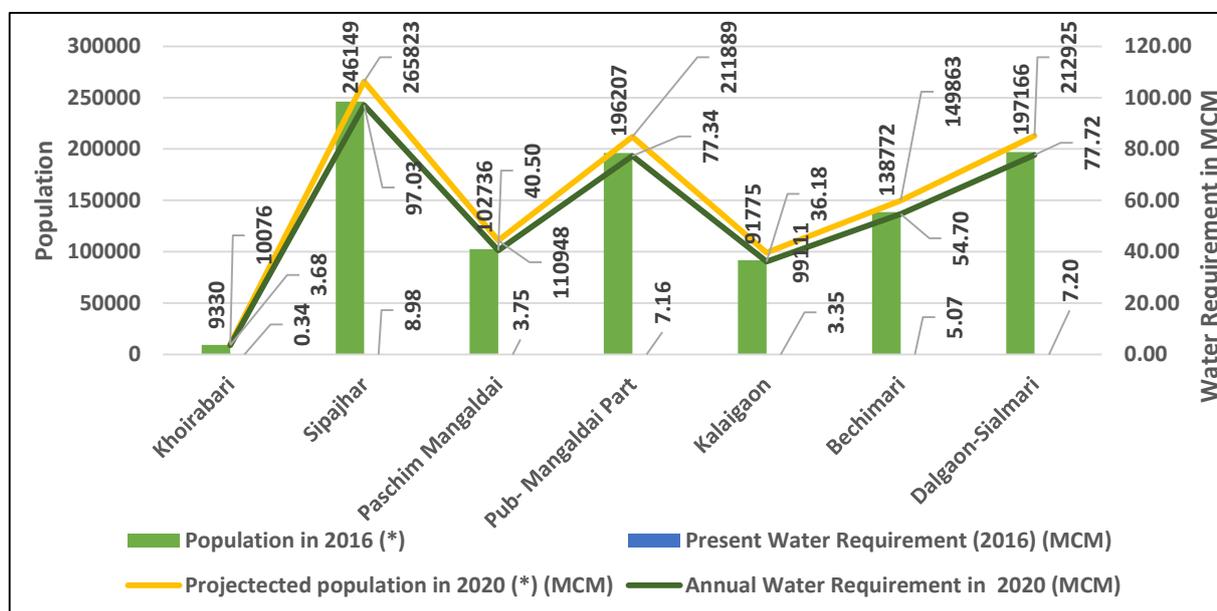


Fig. 4.1: Block wise Population and Domestic Water Requirement in the district

It has been assumed that per capita daily water requirement of people residing in urban areas of the district is 140 Litres and for population in rural areas, the daily per capita daily water requirement is 100 Litres. Using the same norms domestic water supply demand has been worked out and given in table 4.1 above.

4.2 Crop Water Requirement

Taking into account, the water requirement of various crops, average water requirement per hectare of land has been worked out to for each crops separately. The irrigation efficiency of water has also been considered while working out the water requirement. It has been observed that most of the field is rainfed. Accordingly, to calculate the actual water requirement of land, twice of the crop water requirement have been taken.

Table 4.2: Crop Water Requirement in Million Cubic Meter

Block	Area sown (Ha)	Irrigated area (ha)	Crop Water Demand	Water Potential Required	Existing Water Potential	Water Potential to be created
Bechimari	8510	3892	86.19	86.19	39.42	46.77

Paschim Mangaldai	17615	6519	178.41	178.41	66.03	112.39
Sipajhar	29378	7360	297.55	297.55	74.55	223.01
Kalaigaon	13500.5	3994.5	136.74	136.74	40.46	96.28
Pub Mangaldai	24819	9474	251.38	251.38	95.96	155.42
Dalgaon Sialmari	21441	7223	217.16	217.16	73.16	144.01
Total	115263.50	38462.50	1167.44	1167.44	389.57	777.88

It can be concluded from the table that in 6 Blocks, a total water potential of 777.8 MCM is to be met additionally in the district with respect to existing water potential of 389.57 MCM to fulfill the requirement of crops.

4.3 Livestock

The requirement of water for livestock of the district has been derived from the data provided by Animal Husbandry and Livestock department of Darrang. The table below represents the block wise water requirement as well as total water requirement of the district for livestock.

Table 4.3:Block wise livestock water demand (in MCM)

Block	Small Animals in 2015	Large animals in 2015	Total number of livestock (2015)	Small Animals in 2020	Large animals in 2020	Projected Total number of livestock (2020)	Present water demand (MCM)	Water Demand in 2020 (MCM)	Existing water potential (MCM)*	Water potential to be created (MCM)
Paschim Mangaldai	187206	23983	211189	196566.30	25182.15	221748.45	0.98	1.03	0.98	0.049
Bechimari	25337	33231	58568	26603.85	34892.55	61496.40	0.84	0.89	0.84	0.042
Dalgaon Sialmari	153474	66464	219938	161147.70	69787.20	230934.90	1.91	2.01	1.91	0.096
Pub-Mangaldai	33099	39033	72132	34753.95	40984.65	75738.60	1.00	1.05	1.00	0.050
Sipajhar	196577	87620	284197	206405.85	92001.00	298406.85	2.51	2.63	2.51	0.125
Kalaigaon	111598	5875	117473	117177.90	6168.75	123346.65	0.38	0.40	0.38	0.019

* It is assumed that present water requirement of animal is met from existing water usage and hence existing potential is equal to existing demand.

There is very less water requirement for the livestock from 2015 to 2020 as there is very less growth in livestock population in the district. The exiting water requirement for the livestock in the

district is 0.38 MCM while the projected water demand in 2020 is 0.40. Therefore, water potential to be created to meet the requirement is only 0.019 MCM.

4.4 Industrial Water Requirement

There is no industry in the district.

Table 4.4: Industrial Water Requirement

Block	Name of the industry	Water demand (MCM)	Water demand in 2020 (MCM)	Existing water potential (MCM)	Water potential to be created (MCM)
Pub - Mangaldai Dev. Block	Nil	Nil	Nil	Nil	Nil
Paschim - Mangaldai Dev. Block	Nil	Nil	Nil	Nil	Nil
Sipajhar Dev. Block	Nil	Nil	Nil	Nil	Nil
Kalaigaon Dev. Block	Nil	Nil	Nil	Nil	Nil
Bechimari Dev. Block	Nil	Nil	Nil	Nil	Nil
Dalgaon Sialmari Dev. Block	Nil	Nil	Nil	Nil	Nil

4.5 Water Demand for Power Generation

Data not available

Table 4.5: Water Demand for Power Generation

Block	Power requirement (MW)	Water demand (BCM)	Water demand in 2020 (BCM)	Existing water potential (BCM)	Water potential to be created (BCM)
Pub - Mangaldai Dev. Block					
Paschim - Mangaldai Dev. Block					
Sipajhar Dev. Block					
Kalaigaon Dev. Block					
Bechimari Dev. Block					
Dalgaon Sialmari Dev. Block					

4.6 Total Water Demand of the district for various sectors

This sections presents the total water demand of the district and has been calculated by summing up all major sectors consuming water. The current water demand has been indicated in Table 4.6 and the projected water demand has been depicted in Table 4.7.

Table 4.6: Present Water Demand of the district for various sectors

Block	Demand from Components (MCM)					Total (MCM)
	Domestic	Crop	Livestock	Industrial	Power Generation	
Pub - Mangaldai Dev. Block	7.16	86.19	3.083	Nil	Nil	96.44
Paschim - Mangaldai Dev. Block	3.75	178.41	0.855	Nil	Nil	183.02
Sipajhar Dev. Block	8.98	297.55	3.211	Nil	Nil	309.75
Kalaigaon Dev. Block	3.35	136.74	1.053	Nil	Nil	141.14
Bechimari Dev. Block	5.07	251.38	4.149	Nil	Nil	260.60
Dalgaon Sialmari Dev. Block	7.20	217.16	1.715	Nil	Nil	226.08
Total	35.51	1167.44	14.07	0.00	0.00	1217.02

The present water demand of the district has been assessed at 1217.02 MCM annually, with Sipajhar being the Block with maximum water requirement (309.75 MCM). Bechimari and Dalgaon-Sialmari Block stand at 2nd and 3rd position with 260.60 MCM and 226.08 MCM water required in the respective Blocks.

Table 4.7: Total Water Demand of the district for various sectors (Projected for 2020)

Block	Demand from Components (MCM)					Total (MCM)
	Domestic	Crop	Livestock	Industrial	Power Generation	
Pub - Mangaldai Dev. Block	77.34	86.19	3.083	Nil	Nil	166.62
Paschim - Mangaldai Dev. Block	40.50	178.41	0.855	Nil	Nil	219.77
Sipajhar Dev. Block	97.03	297.55	3.211	Nil	Nil	397.80
Kalaigaon Dev. Block	36.18	136.74	1.053	Nil	Nil	173.97

Bechimari Dev. Block	54.70	251.38	4.149	Nil	Nil	310.23
Dalgaon Sialmari Dev. Block	77.72	217.16	1.715	Nil	Nil	296.60
Total	383.47	1167.44	14.07	0.00	0.00	1564.98

During 2020, total water requirement of the district has been assessed at 1564.98 MCM out of which maximum will be for Sipajhar Block (397.80 MCM). It will be followed by Bechimari Block (310.23 MCM) and Dalgaon-Sialmari (296.60 MCM).

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 5538 MCM, the present water demand is 1217.02 MCM giving rise to a met projected demand of 1564.98 MCM.

Table 4.8: Water Budget for the district (Volume in MCM)

Name of the Block	Existing water availability(BCM)		Total (MCM)	Water Demand(MCM)		Water Gap(MCM)	
	Surface water	Ground water		Present	Projected(2020)	Present	Projected(2020)
Darrang	2778	2760	5538	1217.02	1564.98	-4320.98	-3973.02

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.

Chapter 5: Strategic Action Plan for Irrigation in District PMKSY

5.1 Department Wise Plan

Total plan of Darrang district for four years works out to be Rs. 780748377.2 lakh (Table 5.1). Maximum share of Rs. 780641872 lakh (99.98%) is for DoLR-MoRD followed by MoWR with Rs. 106505 lakh (1.36 %). Fig.1.1 indicates department-wise year -wise share in PMKSY for four years from 2016-17 to 2019-20.

Table 5.1: Department-wise year-wise proposal under PMKSY (Rs. in Lakhs)

Department	Year				Total
	2016-17	2017-18	2018-19	2019-20	
MoWR	13020.9	40011.59	36339.49	17133.02	106505
MoA*	0	0	0	0	0
DoLR-MoRD	1951,62,944	1951,59,643	1951,59,643	1951,59,643	7806,41,872
Total	195175964.8	195199654.3	195195982.2	195176775.8	780748377.2

*Note: The strategic action plan for MoA is not provided

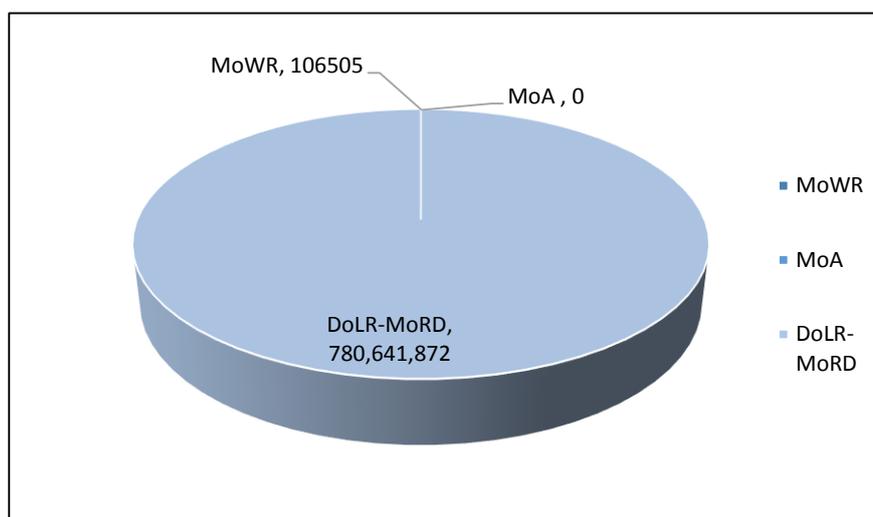


Fig. 5.1: Share of departments in proposal

The total plan of four years worked out to be Rs. 780748377.2lakh of which 24.99% (Rs. 195175964.8lakh) pertains to first year (2016-17). The funds proposed to second year is biggest amount which is 25% of the total outlay (Rs. 195199654.3lakh). The amount proposed for third year and fourth year are Rs. 195195982.2lakh and Rs.195176775.8 lakh.

5.2 Component wise plan

As discussed above about various components of PMKSY, the plan is prepared accordingly. Table 5.2 shows component wise plan for 4 years starting from 2016-17 to 2019-20. AIBP component has a total proposal of Rs. 47744.15 lakh. This component will be mainly executed by WRD (SI & PI) and GWRDC. Per Drop More Crop components is Rs. 780638571 lakh, which is to be executed mainly by GGRC and ATMA departments. Har Khet Ko Pani component is of Rs. 58136.52 lakh will be executed by GLDC and WRD (SI & PI). Watershed component has a total proposal of Rs. 1624 lakh. This component will be implemented by GSWMA. Convergence with MGNREGS is proposed by GSWMA for a total amount of Rs. 1677.15 lakh. All the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. Fig. 5.2 represents the graphical representation of various components of PMKSY, year wise plan and share.

Table 5.2: Component wise plan

Component	2016-17	2017-18	2018-19	2019-20	Total
AIBP	10769.76	19744.9	12979.49	4250	47744.15
HKKP	0	25401.5	19852	12883.02	58136.52
PDMC	1951,59,643	1951,59,643	1951,59,643	1951,59,643	7806,38,571
Watershed	1624	0	0	0	1624
Convergence	1677.15	0	0	0	1677.15
Other Loans Project like NABARD	2406.29	476.19	269.38	0	3151.86
Total	195176120	195205265.3	195192743.6	195176775.8	780747603.5

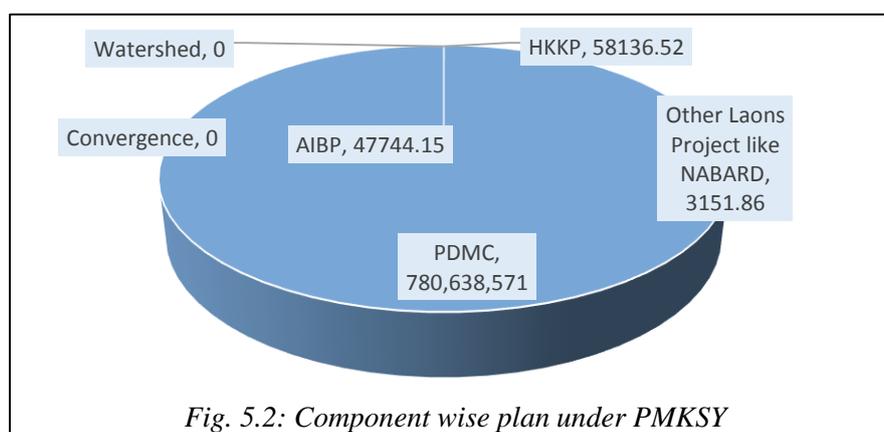


Fig. 5.2: Component wise plan under PMKSY

5.3 Block wise Plan

5.3.1 Bechimari Development Block

Department wise plan for Bechimari Development Block

Total plan of Bechimari Block for four years works out to be Rs. 8679937.39lakh (Table 5.3). Maximum share of Rs. 8668535lakh is for DoLR-MoRD followed by MoWR with Rs.11402.39lakh. Fig.5.3indicates department-wise year -wise share in PMKSY for four years from 2016-17 to 2019-20.

Table 5.3: Department-wise year-wise proposal under PMKSY

Department	Year				Total
	2016-17	2017-18	2018-19	2019-20	
MoWR	2589.4	4535.5	3502.49	775	11402.39
MoA	0	0	0	0	0
DoLR-MoRD	2167133.75	2167133.75	2167133.75	2167133.75	8668535
Total	2169723.15	2171669.25	2170636.24	2167908.75	8679937.39

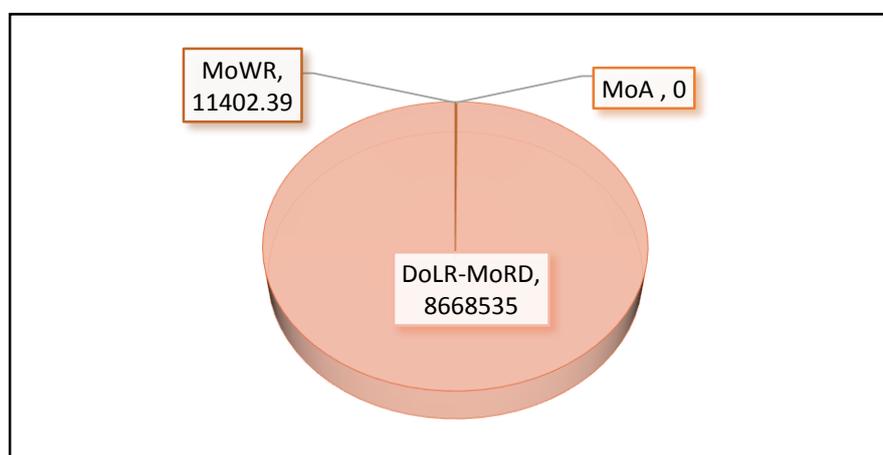


Fig. 5.3: Share of departments in proposal

The total plan of four years worked out to be Rs. 8679937.39 lakh of which Rs.2169723.15 lakh pertains to first year (2016-17). The funds proposed to second year is first biggest amount which is Rs.2171669.25lakh. The amount proposed for third and fourth year are Rs. 2170636.24lakh and Rs. 2167908.75lakh.

Component wise plan

As discussed above about various components of PMKSY, the plan is prepared accordingly. Table 5.4 shows component wise plan for 4 years starting from 2016-17 to 2019-20. AIBP component has a total proposal of Rs. 9124.99 lakh. This component will be mainly executed by WRD (SI & PI) and GWRDC. Har Khet ko Pani component is of Rs. 2175 lakh and will be executed by GLDC. Per Drop More Crop components is Rs. 8668535 lakh, which is to be executed mainly by GGRC and ATMA departments. Watershed and Convergence with MGNREGS is not proposed for this block. All the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. Fig. 5.4 represents the graphical representation of various components of PMKSY, year wise plan and share

Table 5.4: Component wise plan

Component	2016-17	2017-18	2018-19	2019-20	Total
AIBP	2487	4060.5	2577.49	0	9124.99
HKKP	0	475	925	775	2175
PDMC	2167133.75	2167133.75	2167133.75	2167133.75	8668535
Watershed	0	0	0	0	0
Convergence	0	0	0	0	0
Other Loans Project like NABARD	102.4	0	0	0	102.4
Total	2169723.15	2171669.25	2170636.24	2167908.75	8679937.39

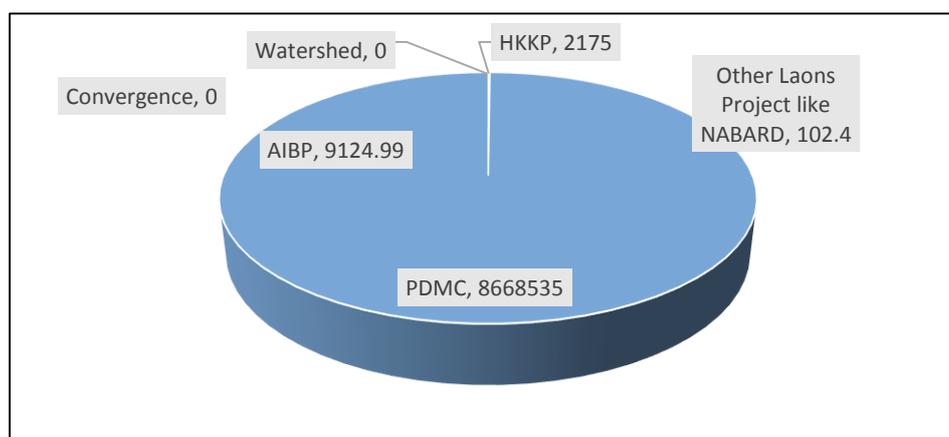


Fig. 5.4: Component wise plan under PMKSY

5.3.2 Kalaigaon Development Block

Department wise plan for Kalaigaon Development Block

Total plan of Kalaigaon Block for four years works out to be Rs. 450121469lakh (Table 5.5). Maximum share of Rs.450106263 lakh is for DoLR-MoRD followed by MoWR with Rs. 15206.1 lakh. Fig.5.5indicates department-wise year -wise share in PMKSY for four years from 2016-17 to 2019-20.

Table 5.5: Department-wise year-wise proposal under PMKSY

Department	Year				Total
	2016-17	2017-18	2018-19	2019-20	
MoWR	3707.2	5573.9	4337.5	1587.5	15206.1
MoA	0	0	0	0	0
DoLR-MoRD	112526565.8	112526565.8	112526565.8	112526565.8	450106263
Total	112530273	112532139.7	112530903.3	112528153.3	450121469

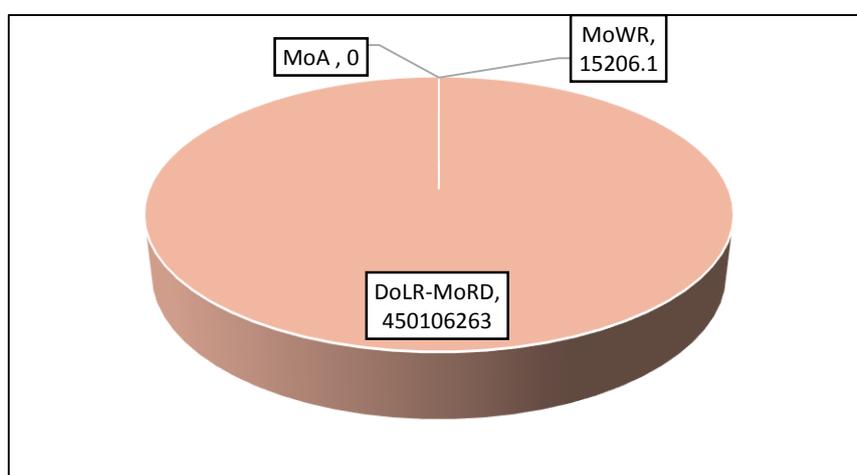


Fig. 5.5: Share of departments in proposal

The total plan of four years worked out to be Rs. 450121469lakhs of which Rs.112530273lakhs pertains to first year (2016-17). The funds proposed to second year is first biggest amount which Rs.112532139.7lakh. The amount proposed for third and fourth year are Rs. 112530903.3 lakh and Rs. 112528153.3lakh.

Component wise plan

As discussed above about various components of PMKSY, the plan is prepared accordingly. Table 5.6 shows component wise plan for 4 years starting from 2016-17 to 2019-20. AIBP component has a total proposal of Rs. 7794.46 lakh. This component will be mainly executed by WRD (SI & PI) and GWRDC. Har Khet ko Pani component is of Rs. 5480 lakh and will be executed by GLDC. Per Drop More Crop components is Rs. 450106263 lakh, which is to be executed mainly by GGRC and ATMA departments. Watershed and Convergence with MGNREGS is not proposed for this block. All the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. Fig. 5.6 represents the graphical representation of various components of PMKSY, year wise plan and share

Table 5.6: Component wise plan

Component	2016-17	2017-18	2018-19	2019-20	Total
AIBP	2251.75	2617.71	1925	1000	7794.46
HKKP	0	2480	2412.5	587.5	5480
PDMC	112526565.8	112526565.8	112526565.8	112526565.8	450106263
Watershed	0	0	0	0	0
Convergence	0	0	0	0	0
Other Loans Project like NABARD	1455.45	476.19	0	0	1931.64
Total	112530273	112532139.7	112530903.3	112528153.3	450121469

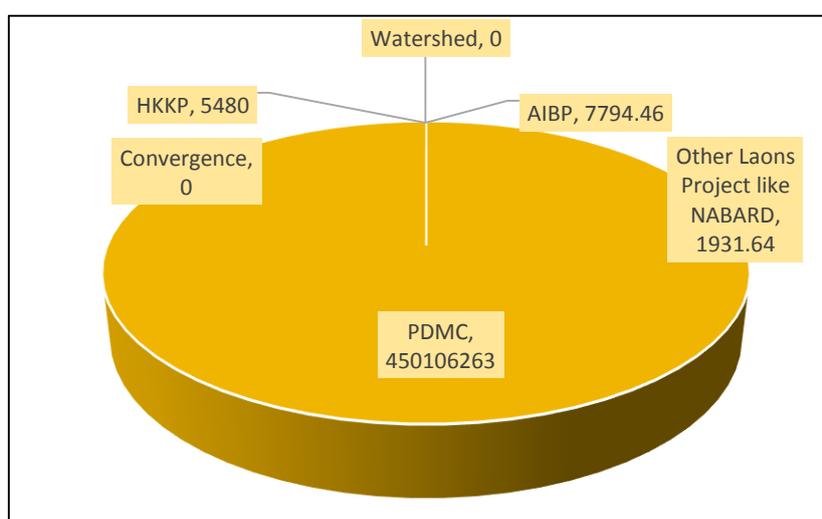


Fig. 5.6: Component wise plan under PMKSY

5.3.3 Dalgaon Sialmari Development Block

Department wise plan for Dalgaon Sialmari Development Block

Total plan of Dalgaon SialmariBlock for four years works out to be Rs. 203673428.5lakh (Table 5.7). Maximum share of Rs. 203653751lakhis for DoLR-MoRD followed by MoWR with Rs.19677.5lakh. Fig.5.7 indicates department-wise year -wise share in PMKSY for four years from 2016-17 to 2019-20.

Table 5.7 Department-wise year-wise proposal under PMKSY

Department	Year				Total
	2016-17	2017-18	2018-19	2019-20	
MoWR	880	9092.5	8512.5	1192.5	19677.5
MoA	0	0	0	0	0
DoLR-MoRD	509,13,438	509,13,438	509,13,438	509,13,438	203653751
Total	50914317.75	50922530.25	50921950.25	50914630.25	203673428.5

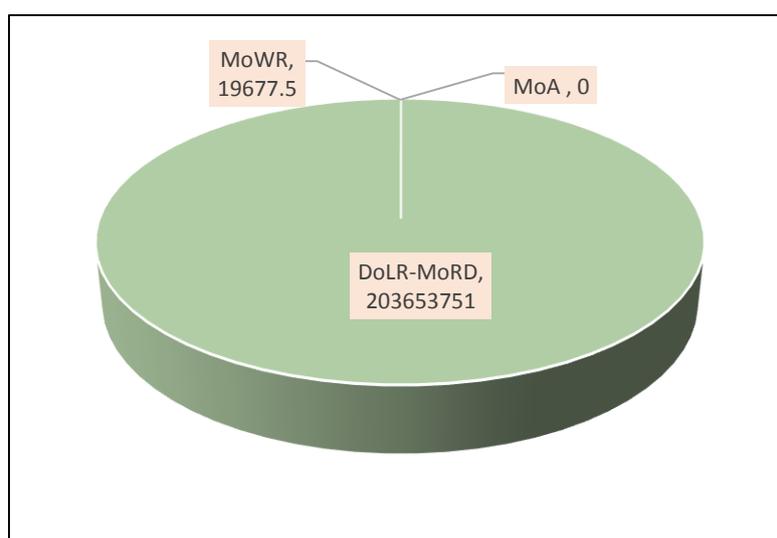


Fig. 5.7: Component wise plan under PMKSY

The total plan of four years worked out to be Rs.203673428.5lakhs of which Rs.50914317.75lakhs pertains to first year (2016-17). The funds proposed to second year is first biggest amount which Rs.50922530.25lakh. The amount proposed for third and fourth year are Rs.50921950.25 lakh and Rs. 50914630.25lakh.

Component wise plan

As discussed above about various components of PMKSY, the plan is prepared accordingly. Table 5.8 shows component wise plan for 4 years starting from 2016-17 to 2019-20. AIBP component has a total proposal of Rs. 5072.5lakh. This component will be mainly executed by WRD (SI & PI) and GWRDC. Har Khet ko Pani component is of Rs.11097.5 lakh and will be executed by GLDC. Per Drop More Crop components is Rs. 203653751lakh, which is to be executed mainly by GGRC and ATMA departments. Watershed and Convergence with MGNREGS is not proposed for this block. All the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. Fig. 5.8 represents the graphical representation of various components of PMKSY, year wise plan and share

Table 5.8: Component wise plan

Component	2016-17	2017-18	2018-19	2019-20	Total
AIBP	880	2092.5	2100	0	5072.5
HKKP	0	7000	2905	1192.5	11097.5
PDMC	509,13,438	509,13,438	509,13,438	509,13,438	203653751
Watershed	0	0	0	0	0
Convergence	0	0	0	0	0
Other Loans Project like NABARD	155.68	0	0	0	155.68
Total	50914473.4	50922530.25	50918442.75	50914630.25	203670076.7

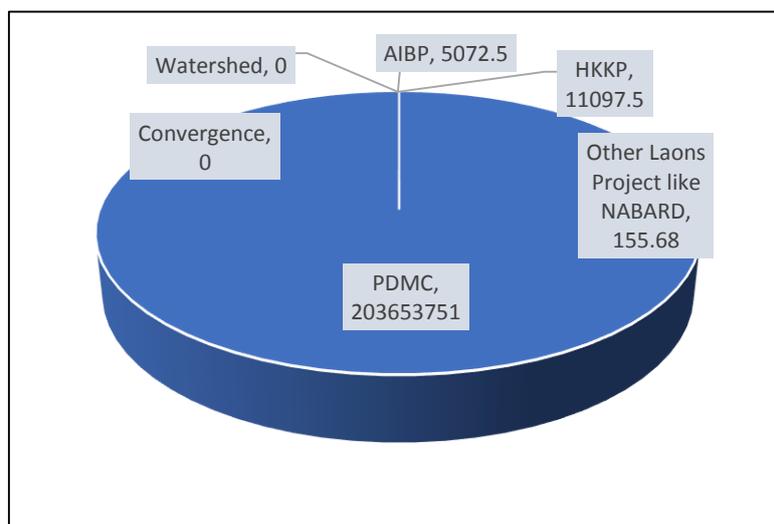


Fig. 5.8: Share of departments in Proposal

5.3.4 Paschim Mangaldai Development Block

Department wise plan for Paschim Mangaldai Development Block

Total plan of Paschim Mangaldai Block for four years works out to be Rs. 29549052.7lakh (Table 5.9). Maximum share of Rs. 29536472lakh is for DoLR-MoRD followed by MoWR with Rs.12580.7lakh. Fig.5.9 indicates department-wise year -wise share in PMKSY for four years from 2016-17 to 2019-20.

Table 5.9: Department-wise year-wise proposal under PMKSY

Department	Year				Total
	2016-17	2017-18	2018-19	2019-20	
MoWR	2111.7	3604	4885	1980	12580.7
MoA	0	0	0	0	0
DoLR-MoRD	7384118	7384118	7384118	7384118	29536472
Total	7386229.7	7387722	7389003	7386098	29549052.7

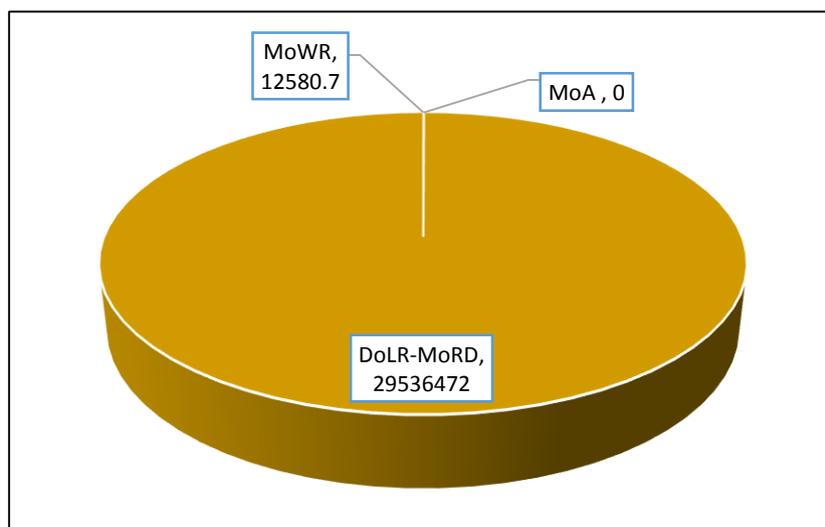


Fig. 5.9: Share of departments in proposal

The total plan of four years worked out to be Rs.29549052.7lakhs of which Rs.7386229.7lakhs pertains to first year (2016-17). The funds proposed to second year is first biggest amount which Rs. 7387722lakh. The amount proposed for third and fourth year are Rs.7389003lakh and Rs. 7386098lakh.

Component wise plan

As discussed above about various components of PMKSY, the plan is prepared accordingly. Table 5.10 shows component wise plan for 4 years starting from 2016-17 to 2019-20. AIBP component has a total proposal of Rs. 10118.2lakh. This component will be mainly executed by WRD (SI & PI) and GWRDC. Har Khet ko Pani component is of Rs.7719 lakh and will be executed by GLDC. Per Drop More Crop components is Rs. 29536472lakh, which is to be executed mainly by GGRC and ATMA departments. Watershed and Convergence with MGNREGS is not proposed for this block. All the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. Fig. 5.10 represents the graphical representation of various components of PMKSY, year wise plan and share

Table 5.10: Component wise plan

Component	2016-17	2017-18	2018-19	2019-20	Total
AIBP	1757.2	5611	1750	1000	10118.2
HKKP	0	3604	3135	980	7719
PDMC	7384118	7384118	7384118	7384118	29536472
Watershed	0	0	0	0	0
Convergence	0	0	0	0	0
Other Loans Project like NABARD	353.97	0	0	0	353.97
Total	7386229.17	7393333	7389003	7386098	29554663.2

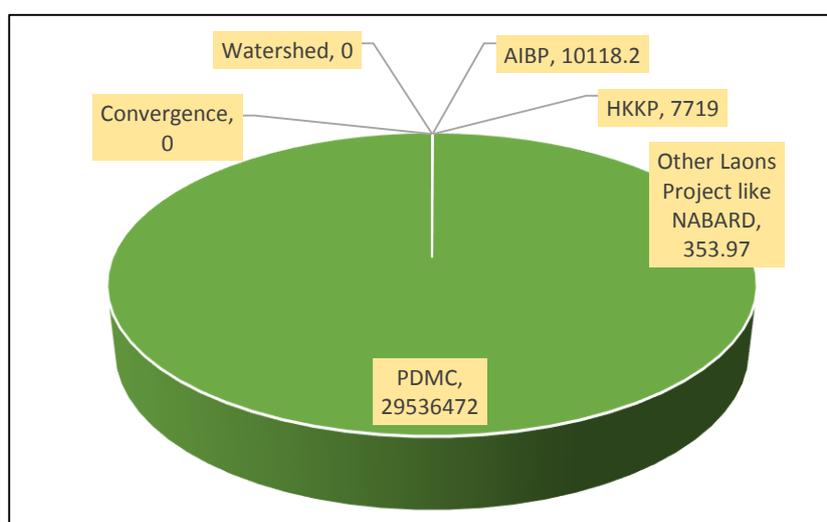


Fig.5.10 Component Wise Plan under PMKSY

5.3.5 Pub Mangaldai Development Block

Department wise plan for Pub Mangaldai Development Block

Total plan of Pub Mangaldai Block for four years works out to be Rs.84403045.22lakh (Table 5.11). Maximum share of Rs.84395225lakh is for DoLR-MoRD followed by MoWR with Rs.7820.22lakh. Fig.5.11 indicates department-wise year-wise share in PMKSY for four years from 2016-17 to 2019-20

Table 5.11: Department-wise year-wise proposal under PMKSY

Department	Year				Total
	2016-17	2017-18	2018-19	2019-20	
MoWR	340.22	2405	2712.5	2362.5	7820.22
MoA	0	0	0	0	0
DoLR-MoRD	21098806.25	21098806.25	21098806.25	21098806.25	84395225
Total	21099146.47	21101211.25	21101518.75	21101168.75	84403045.22

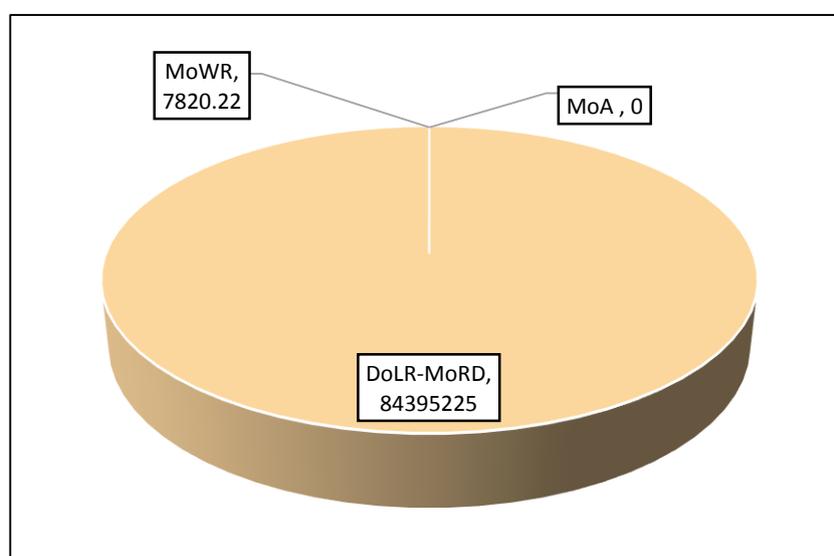


Fig. 5.11: Share of departments in proposal

The total plan of four years worked out to be Rs.84403045.22lakhs of which Rs.21099146.47 lakhs pertains to first year (2016-17). The funds proposed to second year is first biggest amount which Rs. 21101211.25lakh. The amount proposed for third and fourth year are Rs.21101518.75lakh and Rs.21101168.75lakh.

Component wise plan

As discussed above about various components of PMKSY, the plan is prepared accordingly. Table 5.12 shows component wise plan for 4 years starting from 2016-17 to 2019-20. AIBP component has a total proposal of Rs. 270.81 lakh. This component will be mainly executed by WRD (SI & PI) and GWRDC. Har Khet ko Pani component is of Rs.7479.5 lakh and will be executed by GLDC. Per Drop More Crop components is Rs. 84395225lakh, which is to be executed mainly by GGRC and ATMA departments. Watershed and Convergence with MGNREGS is not proposed for this block. All the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. Fig. 5.12 represents the graphical representation of various components of PMKSY, year wise plan and share

Table 5.12: Component wise plan

Component	2016-17	2017-18	2018-19	2019-20	Total
AIBP	270.81	0	0	0	270.81
HKKP	0	2405	2712	2362.5	7479.5
PDMC	21098806	21098806	21098806	21098806	84395225
Watershed	0	0	0	0	0
Convergence	0	0	0	0	0
Other Loans Project like NABARD	69.41	0	0	0	69.41
Total	21099146	21101211	21101518	21101169	84403045

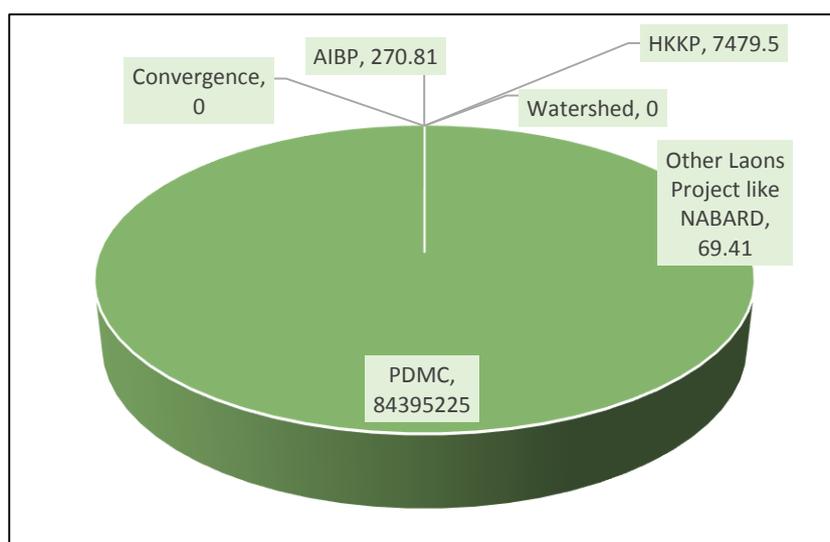


Fig. 5.12 Component wise Plan

5.3.6 Sipajhar Development Block

Department wise plan for Sipajhar Development Block

Total plan of Sipajhar Block for four years works out to be Rs.4318143.09lakh (Table 5.13). Maximum share of Rs. 4278325lakhs for DoLR-MoRD followed by MoWR with Rs.39818.09lakh. Fig.5.13 indicates department-wise year -wise share in PMKSY for four years from 2016-17 to 2019-20

Table 5.13: Department-wise year-wise proposal under PMKSY

Department	Year				Total
	2016-17	2017-18	2018-19	2019-20	
MoWR	3392.38	14800.69	12389.5	9235.52	39818.09
MoA	0	0	0	0	0
DoLR-MoRD	1069581.25	1069581.25	1069581.25	1069581.25	4278325
Total	1072973.63	1084381.94	1081970.75	1078816.77	4318143.09

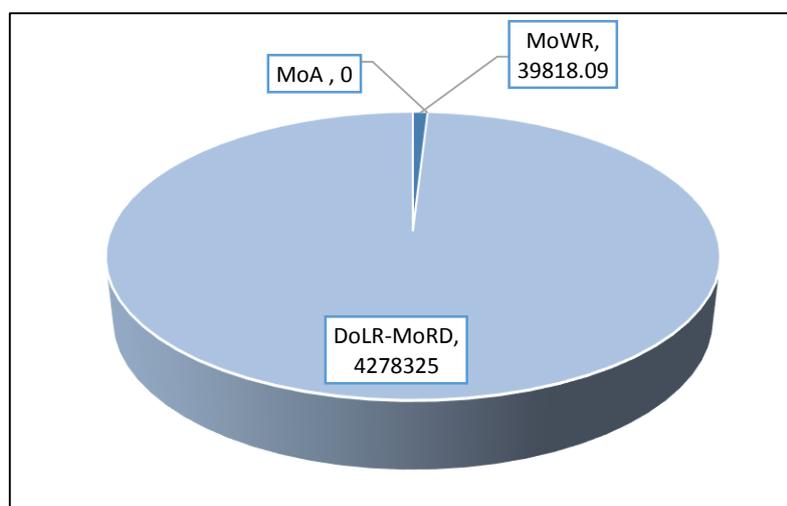


Fig. 5.13: Share of departments in proposal

The total plan of four years worked out to be Rs.4318143.09lakhs of which Rs.1072973.63lakhs pertains to first year (2016-17). The funds proposed to second year is first biggest amount which Rs. 1084381.94lakh. The amount proposed for third and fourth year are Rs.1081970.75lakh and Rs. 1078816.77lakh.

Component wise plan

As discussed above about various components of PMKSY, the plan is prepared accordingly. Table 5.14 shows component wise plan for 4 years starting from 2016-17 to 2019-20. AIBP component has a total proposal of Rs. 15363.19 lakh. This component will be mainly executed by WRD (SI & PI) and GWRDC. Har Khet ko Pani component is of Rs.24185.52 lakh and will be executed by GLDC. Per Drop More Crop components is Rs. 4278325lakh, which is to be executed mainly by GGRC and ATMA departments. Watershed and Convergence with MGNREGS is not proposed for this block. All the stakeholders need to have coordination among themselves to have the maximum irrigation efficiency and to avoid duplicity. Fig. 5.14 represents the graphical representation of various components of PMKSY, year wise plan and share

Table 5.14: Component wise plan

Component	2016-17	2017-18	2018-19	2019-20	Total
AIBP	3123	5363.19	4627	2250	15363.19
HKKP	0	9437.5	7762.5	6985.52	24185.52
PDMC	1069581	1069581	1069581	1069581	4278325
Watershed	0	0	0	0	0
Convergence	0	0	0	0	0
Other Loans Project like NABARD	269.38	0	269.38	0	538.76
Total	1072974	1084382	1082240	1078817	4318412

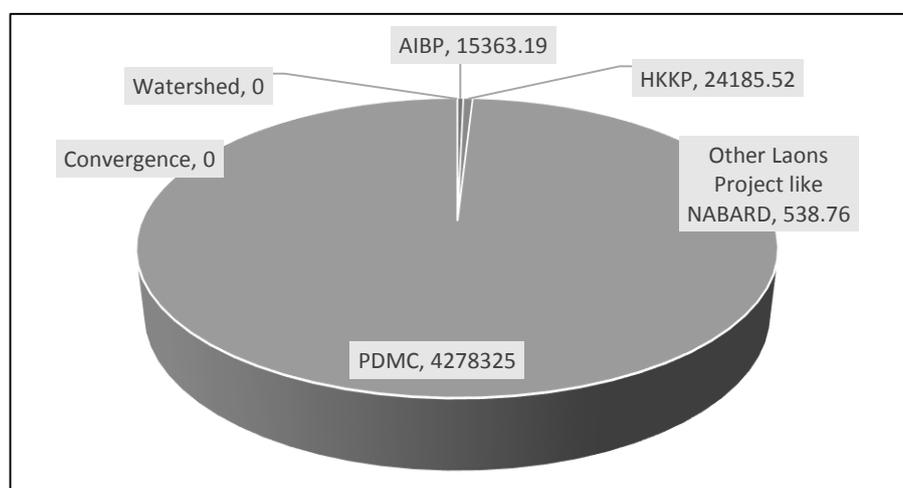


Figure 5.14: Component wise plan under PMKSY

5.5 Suggestions

For successful implementation of PMKSY plan it is suggested that:

- All the stakeholders should convene meeting of Panchayat samities and then finalize the village plan and prepare DPR.
- There should not be duplicity of project.
- The Department should supplement each other so that the maximum irrigation efficiency is achieved.
- All the irrigation projects should have a component of water conveyance so that the each drop of water is judiciously utilized.
- Where ever feasible solar pump sets should be installed.
- All the structures planned should be geo tagged and marked on map, so that social monitoring of the projects can be conducted. This will also avoid the duplicity.
- Priority should be given to projects minimize the gap in potential created and potential utilized.
- Execution of the scheme should be expeditiously completed.
- There should be smooth fund flow to timely complete the project.

Annexure I: Agro Ecology, Climate, Hydrology and Topography

Name of the Block	Agro Ecological Zone type	Type of Terrain	Block Area (ha)	Normal Annual Rainfall	Average Monthly Rainfall	No of Rainy Days (No)	Maximum Rainfall Intensity(mm)			Average Weekly Temperature (°C)									Potential Evapo-Transpiration (PET)			Elevation					
							Up to 15 Min	Beyond 15 but upto 30 Min	Beyond 30 but upto 60 Min	Period									Period			Cumulative	Min.	Max.	Mean		
										Summer (May-June)			Winter (Oct.-Mar.)			Rainy (June-Sept.)			Summer	Winter	Rainy season						
										Min.	Max.	Mean	Min.	Max.	Mean	Min.	Max.	Mean									
Sipajhar	North Bank Plain Zone	-	30632	1791	167.26	111	NA	NA	NA	28	38	33	15	25	20	30	38	34	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pub Mangaldai	North Bank Plain Zone	-	18438	1691	167.26	112	NA	NA	NA	28	38	33	15	25	20	30	38	34	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalgaon	North Bank Plain Zone	-	18203	1821	167.26	110	NA	NA	NA	28	38	33	15	25	20	30	38	34	NA	NA	NA	NA	NA	NA	NA	NA	NA
Paschim Mangaldai	North Bank Plain Zone	-	11532	1665	167.26	115	NA	NA	NA	28	38	33	15	25	20	30	38	34	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kalaigaon	North Bank Plain Zone	-	17045	1895	167.26	111	NA	NA	NA	28	38	33	15	25	20	30	38	34	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bechimari	North Bank Plain Zone	-	8472	1883	167.26	112	NA	NA	NA	28	38	33	15	25	20	30	38	34	NA	NA	NA	NA	NA	NA	NA	NA	NA

Annexure II: Soil Erosion and Runoff Status

Name of the Block	Name of the Micro Watershed	Name of the Sediment Monitoring Station	Longitude	Latitude	Soil Erosion (Tone/ha)	Runoff						Drought
						Peak Rate (cum/hr)	Frequency of Peak (No in Months)	Total Runoff Volume of Rainy	Time of return of Maximum flood			Frequency
								Season (ha-m)	5 Years	10 Years	In Years	
Bechimari (Part)	Madhupur M.W.S.	NA	92°9'45.85" E to 92°14'14.00" E	26°31'302" N to 26°23' 58.373" N	20 tone/Ha/year	0.114 mm/hr	6	1002 mm/year	Nil	Nil	3-5 year	Very low, low & moderate
Bechimari (Part)	Chikonmati M.W.S.	NA	92°9'45.85" E to 92°14'14.00" E	26°31'302" N to 26°23' 58.373" N	20 tone/Ha/year	0.114 mm/hr	6	1002 mm/year	Nil	Nil	3-5 year	Very low, low & moderate
Dalgaon Sialmari (Part)	Dalgaon M.W.S.	NA	92°9'45.85" E to 92°14'14.00" E	26°31'302" N to 26°23' 58.373" N	20 tone/Ha/year	0.114 mm/hr	6	1002 mm/year	Nil	Nil	3-5 year	Very low, low & moderate
Dalgaon Sialmari (Part)	Kacharipara M.W.S.	NA	92°9'45.85" E to 92°14'14.00" E	26°31'302" N to 26°23' 58.373" N	20 tone/Ha/year	0.114 mm/hr	6	1002 mm/year	Nil	Nil	3-5 year	Very low, low & moderate
Dalgaon Sialmari (Part)	Bihudia M.W.S. (part)	NA	92°9'45.85" E to 92°14'14.00" E	26°31'302" N to 26°23' 58.373" N	20 tone/Ha/year	0.114 mm/hr	6	1002 mm/year	Nil	Nil	3-5 year	Very low, low & moderate
Kalaigaon	Avoyphukuri M.W.S.	NA	92°07'0.892" E to 92°08'22.59" E	26°32'27.893" N to 26°38' 56.595" N	15-20 tone/Ha/year	0.114 mm/hr	6	1002mm/year	Nil	Nil	3-5 year	Very low, low & moderate

Annexure III: Area wise,crop wise Irrigation status

Name of the Block: Kalaigaon															
Crop type	Kharif(Area in ha)			Rabi Area in ha			Summer crop (Area in ha)			Total (Area in ha)			Horticulture& plantation crops(Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
Cereals	1448	5112	6560	649	468	1117	488	903	1391	2583	6483	9068	2.5	394	396.5
Course Cereals	65	160	225	539	240	779	25	0	25	629	400	1029	0	0	0
Pulse	0	63	63	71	158	229	0	57	57	71	349	420	0	0	0
Oil Seeds	0	0	0	311	905	1216	0	0	0	311	905	1216	0	0	0
Fibre	19	305	324	26	60	86	0	0	0	45	365	410	0	0	0
Any other crops	87	132	219	264	549	813	0	0	0	351	681	1032	0	0	0
Total	1619	5772	7391	1860	2380	4240	513	960	1473	3992	9183	13175	2.5	394	396.5

Name of the Block: Sipajhar															
Crop type	Kharif(Area in ha)			Rabi Area in ha			Summer crop (Area in ha)			Total (Area in ha)			Horticulture& plantation crops(Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
Cereals	1601	12504	14105	308	848	1156	2687	474	2761	4596	13826	18422	242	808	1050
Course Cereals	648	145	793	733	429	1162	411	401	812	1792	975	2767	0	0	0
Pulse	80	200	280	150	720	870	0	0	0	230	920	1150	0	0	0
Oil Seeds	0	161	161	500	2950	3450	0	0	0	500	3111	3611	0	0	0
Fibre	0	155	155	0	0	0	0	0	0	0	155	155	0	0	0
Any other crops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2329	13165	15494	1691	4947	6638	3098	875	3573	7118	18987	26105	242	808	1050

Name of the Block: Paschim Mangaldai															
Crop type	Kharif(Area in ha)			Rabi Area in ha			Summer crop (Area in ha)			Total (Area in ha)			Horticulture& plantation crops(Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
Cereals	3340	6295	9635	0	0	0	1033	231	1264	4373	7526	11899	549	1549	2098
Course Cereals	272	153	425	782	343	1125	0	0	0	1054	496	1550	0	0	0
Pulse	12	319	331	24	511	535	0	0	0	36	830	866	0	0	0
Oil Seeds	0	0	0	266	807	1073	0	0	0	266	807	1073	0	0	0
Fibre	0	354	354	0	0	0	0	0	0	0	354	354	0	0	0
Any other crops	43	179	222	184	337	521	14	18	32	241	434	675	0	0	0
Total	3667	7300	10967	1256	1998	3254	1047	249	1296	5970	10447	16417	549	1549	2098

Name of the Block: Bechimari															
Crop type	Kharif(Area in ha)			Rabi Area in ha			Summer crop (Area in ha)			Total (Area in ha)			Horticulture& plantation crops(Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
Cereals	634	2024	2658	0	0	0	1007	460	1467	1641	2484	4125	98	164	262
Course Cereals	0	121	121	39	106	145	0	0	0	39	227	266	0	0	0
Pulse	0	34	34	190	155	345	0	0	0	190	189	379	0	0	0
Oil Seeds	0	0	0	161	405	566	0	0	0	161	405	566	0	0	0
Fibre	0	329	329	0	0	0	0	0	0	0	329	329	0	0	0
Any other crops	553	362	915	1210	458	1668	0	0	0	1763	820	2583	0	0	0
Total	1187	2870	4057	1600	1124	2724	1007	460	1467	3794	4454	8248	98	164	262

Name of the Block: Pub Mangaldai															
Crop type	Kharif(Area in ha)			Rabi Area in ha			Summer crop (Area in ha)			Total (Area in ha)			Horticulture& plantation crops(Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
Cereals	1478	3831	5309	2145	749	2894	2024	735	2759	5647	5315	10962	284	838	1122
Course Cereals	747	907	1654	1325	718	2043	50	96	146	2122	1721	3843	0	0	0
Pulse	13	145	158	311	1904	2215	6	67	73	330	2116	5146	0	0	0
Oil Seeds	0	400	400	355	1969	2324	0	0	0	355	2369	2724	0	0	0
Fibre	0	1403	0	0	0	0	0	0	0	0	1403	1403	0	0	0
Any other crops	144	389	533	514	825	1339	78	369	457	0	0	0	0	0	0
Total	2382	7075	8054	4650	6165	10815	2158	1267	3435	8454	12924	24078	284	838	1122

Name of the Block: Dalgaon Sialmari Development Block															
Crop type	Kharif(Area in ha)			Rabi Area in ha			Summer crop (Area in ha)			Total (Area in ha)			Horticulture& plantation crops(Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
Cereals	2038	4760	6798	778	881	1659	1685	1666	3351	4501	7307	11808	1135	1800	2935
Course Cereals	216	279	495	542	513	1055	28	52	80	786	844	1630	0	0	0
Pulse	21	136	157	112	917	1029	0	430	430	133	1483	1616	0	0	0
Oil Seeds	28	129	157	175	1036	1211	0	123	123	203	1288	1491	0	0	0
Fibre	0	896	0	0	0	0	0	0	0	0	896	896	0	0	0
Any other crops	50	200	250	260	300	560	155	100	255	465	700	1165	0	0	0
Total	2353	6400	7857	1867	3647	5514	1868	2371	4239	6088	12518	18606	1135	1800	2935

Annexure IV: Production and Productivity of major Crops

Bechimari																	
Season	Crop Sown (Area in Ha)						Rainfed				Irrigated				Total		
	Cereals	Coarse cereals	Pulses	Oil seeds	Fiber crops	Any other crops	Area (ha)	Producti on(qtl/yr)	Produc tivity or yield(kgs /ha)	Cost of cultivat ion(Rs./ ha)	Area (Ha)	Producti on(qtl/yr)	Produ ctivity or yield(kgs/ha)	Cost of cultivat ion(Rs./ ha)	Producti on(qtl/yr)	Prod uctivi ty or yield(kgs/h a)	Cost of cultiva tion(R s./ha)
Kharif	45065	3065	1023	718	3461	2139	42582	1618116	3800	22350	13537	572615.1	4230	23250	2190731	8030	45600
Rabi	6196	6309	5223	9840	86	4901	15614	640174	4100	30000	12613	554972	4400	31500	1195146	8500	61500
Summer	12993	1063	560	123	744	0	3811	134528.3	3530	22850	9691	562078	5800	23900	696606.3	9330	46750
Horticult ural & Plantatio n (Fruits & Veg.)	7863.5	0	0	0	0	0	5553	832950	15000	33750	2310.5	41412.6	6120	34550	874362.6	21120	68300
Total	72117.5	10437	6806	10681	4291	7040	67560	3225768	26430	108950	38151.5	1731078	20550	113200	4956846	46980	222150

Annexure V: Existing type of Irrigation

Name of the Block : Pub- Mangaldai Dev. Block																		
Source of Irrigati on	Surface Irrigation (1)					Ground Water (2)						Other Sources includin g Tradition al WHS (3)	Treatme nt effluent discharg e from STP	Water Extraction devices/Lift			Total	
	Canal Based		Tanks/Ponds/Reservoirs			Tube Wells		Open Wells		Bore Well				Electrici ty Pump (4)	Dies el Pum p (5)	Othe rs (6)	Irrigati on Sources (1+3)	Water Extracti ng Units (4+5+6)
	Gov t. Canal	Community/ Pvt. Canal	Community Ponds/Includ ing Small	Individu al/ Pvt. Ponds	Govt. Reservoir/D ams	Gov t.	Pv t.	Community/G ovt.	Pv t.	Gov t.	Pv t.							
FIS/ LIS/ DTW	3,630	Nil	Nil	Nil	Nil	335	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2 No's	1 No.	Nil	3,630	3 No's

Name of the Block : Paschim- Mangaldai Dev. Block																		
Source of Irrigation	Surface Irrigation (1)					Ground Water (2)						Other Sources including Traditional WHS (3)	Treatment effluent discharge from STP	Water Extraction devices/Lift			Total	
	Canal Based		Tanks/Ponds/Reservoirs			Tube Wells		Open Wells		Bore Well				Electricity Pump (4)	Diesel Pump (5)	Others (6)	Irrigation Sources (1+3)	Water Extracting Units (4+5+6)
	Govt. Canal	Community/Pvt. Canal	Community Ponds/Including Small	Individual/ Pvt. Ponds	Govt. Reservoir/Dams	Govt.	Pvt.	Community/Govt.	Pvt.	Govt.	Pvt.							
FIS/LIS/DTW	165	Nil	Nil	Nil	Nil	140	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3 No's	0.00 No	Nil	165	3 No's

Name of the Block : Sipajhar Dev. Block																		
Source of Irrigation	Surface Irrigation (1)					Ground Water (2)						Other Sources including Traditional WHS (3)	Treatment effluent discharge from STP	Water Extraction devices/Lift			Total	
	Canal Based		Tanks/Ponds/Reservoirs			Tube Wells		Open Wells		Bore Well				Electricity Pump (4)	Diesel Pump (5)	Others (6)	Irrigation Sources (1+3)	Water Extracting Units (4+5+6)
	Govt. Canal	Community/Pvt. Canal	Community Ponds/Including Small	Individual/ Pvt. Ponds	Govt. Reservoir/Dams	Govt.	Pvt.	Community/Govt.	Pvt.	Govt.	Pvt.							
FIS/LIS/DTW	3,848	Nil	Nil	Nil	Nil	575	Nil	Nil	Nil	Nil	Nil	Nil	Nil	8 No's	0.00 No's	Nil	3,848	8 No's

Name of the Block : Dalgaon Sialmari Dev. Block																		
Source of Irrigation	Surface Irrigation (1)					Ground Water (2)						Other Sources including Traditional WHS (3)	Treatment effluent discharge from STP	Water Extraction devices/Lift			Total	
	Canal Based		Tanks/Ponds/Reservoirs			Tube Wells		Open Wells		Bore Well				Electricity Pump (4)	Diesel Pump (5)	Others (6)	Irrigation Sources (1+3)	Water Extracting Units (4+5+6)
	Govt. Canal	Community/Pvt. Canal	Community Ponds/Including Small	Individual/ Pvt. Ponds	Govt. Reservoir/Dams	Govt.	Pvt.	Community/Govt.	Pvt.	Govt.	Pvt.							
FIS/LIS/DTW	4,320	Nil	Nil	Nil	Nil	325	Nil	Nil	Nil	Nil	Nil	Nil	Nil	6 No's	0.00 No's	Nil	4,320	6 No's

Name of the Block : Bechimari Dev. Block																		
Source of Irrigation	Surface Irrigation (1)					Ground Water (2)						Other Sources including Traditional WHS (3)	Treatment effluent discharge from STP	Water Extraction devices/Lift			Total	
	Canal Based		Tanks/Ponds/Reservoirs			Tube Wells		Open Wells		Bore Well				Electricity Pump (4)	Diesel Pump (5)	Others (6)	Irrigation Sources (1+3)	Water Extracting Units (4+5+6)
	Govt. Canal	Community/Pvt. Canal	Community Ponds/Including Small	Individual/ Pvt. Ponds	Govt. Reservoir/Dams	Govt.	Pvt.	Community/Govt.	Pvt.	Govt.	Pvt.							
FIS/LIS/DTW	1,920	Nil	Nil	Nil	Nil	455	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2 No's	1 No	Nil	20,013	3 No's

Name of the Block : Kalaigaon Dev. Block																		
Source of Irrigation	Surface Irrigation (1)					Ground Water (2)						Other Sources including Traditional WHS (3)	Treatment effluent discharge from STP	Water Extraction devices/Lift			Total	
	Canal Based		Tanks/Ponds/Reservoirs			Tube Wells		Open Wells		Bore Well				Electricity Pump (4)	Diesel Pump (5)	Others (6)	Irrigation Sources (1+3)	Water Extracting Units (4+5+6)
	Govt. Canal	Community/Pvt. Canal	Community Ponds/Including Small	Individual/ Pvt. Ponds	Govt. Reservoir/Dams	Govt.	Pvt.	Community/Govt.	Pvt.	Govt.	Pvt.							
FIS/LIS/DTW	6,130	Nil	Nil	Nil	Nil	0	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00 No	0.00 No	Nil	6,130	0.00 No

Annexure VI: Domestic Water Demand

Blocks	Population as per census 2011	Population in 2016 (*)	Present Water Requirement (2016) (MCM)	Projected population in 2020 (*) (MCM)	Annual Water Requirement in 2020 (MCM)
Khoirabari	8398	9330	0.34	10076	3.68
Sipajhar	221556	246149	8.98	265823	97.03
Paschim Mangaldai	92472	102736	3.75	110948	40.50
Pub- Mangaldai Part	176604	196207	7.16	211889	77.34
Kalaigaon	82606	91775	3.35	99111	36.18
Bechimari	124,907	138772	5.07	149863	54.70
Dalgaon-Sialmari	177467	197166	7.20	212925	77.72
Total	884010	982135	35.85	1060635	387.13

Annexure VII: Livestock Water Demand

Block	Small Animals in 2015	Large animals in 2015	Total number of livestock (2015)	Small Animals in 2020	Large animals in 2020	Projected Total number of livestock (2020)	Present water demand (MCM)	Water Demand in 2020 (MCM)	Existing water potential (MCM)*	Water potential to be created (MCM)
Paschim Mangaldai	187206	23983	211189	196566.30	25182.15	221748.45	0.98	1.03	0.98	0.049
Bechimari	25337	33231	58568	26603.85	34892.55	61496.40	0.84	0.89	0.84	0.042
Dalgaon Sialmari	153474	66464	219938	161147.70	69787.20	230934.90	1.91	2.01	1.91	0.096
Pub-Mangaldai	33099	39033	72132	34753.95	40984.65	75738.60	1.00	1.05	1.00	0.050
Sipajhar	196577	87620	284197	206405.85	92001.00	298406.85	2.51	2.63	2.51	0.125
Kalaigaon	111598	5875	117473	117177.90	6168.75	123346.65	0.38	0.40	0.38	0.019

Annexure VIII. A: Strategic Action Plan for Irrigation under PMKSY

S. No.	Name of the District	Concerned Ministry/ Department	Component	Activity	Total Number/Capacity (cum)	Command Area/ Irrigation Potential (Ha.)	Period of Implementation	Estimated Cost (in Rs.)
1	Darrang	MoWR	AIBP	Major Irrigation	-	-	-	-
2		MoWR		Medium Irrigation	-	-	-	-
3		MoWR		Surface Minor Irrigation	41	30558	7	44621.25
4		MoWR	HAR Khet Ko Pani	Lift Irrigation	25	3050	7	6500
5		MoWR	HAR Khet Ko Pani	Ground Water development	808	20318	7	37001
6		MoWR	HAR Khet Ko Pani	RRR of Water Bodies	-	-	-	-
7		MoWR	HAR Khet Ko Pani	Construction of field channels				
7.1		MoWR	HAR Khet Ko Pani	Lined Field Channels	10	5024	7	2326
7.2		MoWR	HAR Khet Ko Pani	Unlined Field Channels	54	350	7	873
8		MoWR	HAR Khet Ko Pani	Micro-Irrigation	-	-	-	-
9	Darrang	MOA & FW-DAC & FW	Per drop more crop (Micro Irrigation)	DPAP Drip	-	-	-	-
10		MOA & FW-DAC & FW	Per drop more crop (Micro Irrigation)	DPAP Sprinkler	-	-	-	-
11		MOA & FW-DAC & FW	Per drop more crop (Micro Irrigation)	Non- DPAP Drip	-	-	-	-
12		MOA & FW-DAC & FW	Per drop more crop (Micro Irrigation)	Non- DPAP Sprinkler	-	-	-	-
13	Darrang	MOA & FW-DAC & FW	Per drop more crop (Supplementary water management activities)	Topping up of MNREGA	-	-	-	-
					-	-	-	-
					-	-	-	-
					-	-	-	-

					-	-	-	-
					-	-	-	-
14	MOA & FW-DAC & FW	Per drop more crop (Supplementary water management activities)	Drought Proofing through check Dams/Water Harvesting Structures		-	-	-	-
					-	-	-	-
					-	-	-	-
					-	-	-	-
					-	-	-	-
					-	-	-	-
					-	-	-	-
					-	-	-	-
15	MOA & FW-DAC & FW	Per drop more crop (Supplementary water management activities)	Secondary Storage Structure		-	-	-	-
					-	-	-	-
					-	-	-	-
16	MOA & FW-DAC & FW	Per drop more crop (Supplementary water management activities)	On Farm Development (distribution pipe / raised bed and furrow system etc.)	-	-	-	-	
17	Darrang	DoLR-MoRD	PMKSY Watershed	Newly created WHS				
17.1		DoLR-MoRD	PMKSY Watershed	Farm Ponds	40	97	2016-17	200
17.2		DoLR-MoRD	PMKSY Watershed	Check Dams	-	-	-	-
17.3		DoLR-MoRD	PMKSY Watershed	Nallah Bunds	-	-	-	-
17.4		DoLR-MoRD	PMKSY Watershed	Percolation Tank	-	-	-	-
17.5		DoLR-MoRD	PMKSY Watershed	Other Ground Water Recharge structure	-	-	-	-
17.6		DoLR-MoRD	PMKSY Watershed	Fishery Ponds/cattle Ponds	163	21.13	2016-17	585
18		DoLR-MoRD	PMKSY Watershed	Renovated WHS				
18.1		DoLR-MoRD	PMKSY Watershed	Farm Ponds	101	12.9	2016-17	330
18.2		DoLR-MoRD	PMKSY Watershed	Check Dams	-	-	-	-
18.3		DoLR-MoRD	PMKSY Watershed	Nallah Bunds	26	2.4	2016-17	49
18.4		DoLR-MoRD	PMKSY Watershed	Percolation Tank	-	-	-	-
18.5		DoLR-MoRD	PMKSY Watershed	Other Ground Water Recharge structure	-	-	-	-
18.6		DoLR-MoRD	PMKSY Watershed	Fishery Ponds/cattle Ponds	100	15.95	2016-17	460
19	Darrang	DoRD-MoRD	Convergence with MGNREGA	Newly Created				

19.1		DoRD-MoRD	Convergence with MGNREGA	Water Conservation	102	11.62	2016-17	304
19.2		DoRD-MoRD	Convergence with MGNREGA	Water Harvesting	10	2.3	2016-17	45
19.3		DoRD-MoRD	Convergence with MGNREGA	Creation of Irrigation canals & Drains	76	89.4	2016-17	163
19.4		DoRD-MoRD	Convergence with MGNREGA	Providing Infrastructure for Irrigation	-	-	-	-
19.5		DoRD-MoRD	Convergence with MGNREGA	Land Development	300	82.9	2016-17	906.65
20		DoRD-MoRD	Convergence with MGNREGA	Renovation				
20.1		DoRD-MoRD	Convergence with MGNREGA	Renovation of water bodies including desilting:	21	8.3	2016-17	98
20.2		DoRD-MoRD	Convergence with MGNREGA	Renovation & Maintenance of Irrigation Canals & Drains	94	256.46	2016-17	160.5
21	Darrang	State Planned Scheme of Irrigation						
21.1	Darrang	State Irrigation Department	Name of the scheme	Major Irrigation	-	-	-	-
21.2	Darrang	State Irrigation Department	Name of the scheme	Medium Irrigation	-	-	-	-
21.3	Darrang	State Irrigation Department	Name of the scheme	Surface Minor Irrigation	-	-	-	-
22	Darrang	Irrigation Scheme of State Agriculture Department	Name of the scheme		-	-	-	-
23	Darrang	Irrigation Scheme of State Agriculture Department	Name of the scheme		-	-	-	-
24	Darrang	Externally aided projects	Name of the scheme		-	-	-	-
25		other loan projects like NABARD	Loan Projects like RIDF of NABARD, SCSP and		47	3063	1	2934.4

	Darrang		ABY				
Darrang District Total				2018	62963.36		97556.8

Annexure VIII. B: Block Wise Strategic Action Plan for Surface Minor Irrigation Plan in the District under PMKSY

Block	Component	Activities	Total Number/ Capacity(cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 yrs)	Estimated Cost (Rs. In Lakh)	Remarks
Bechimari	AIBP 2008-09	1. Nadirkash F.I.S	1	800	5	1600.00	On going
Bechimari		2. Padupari F.I.S	1	780	5	1600.00	On going
Bechimari	AIBP 2014-15	3. Laljhora F.I.S.	1	1400	5	2077.49	On going
Bechimari		4. No.-2 Barjhar Irrigation Bund	1	60	5	150.00	New Scheme
Bechimari		5. Sukhabahi-Ranganadi F.I.S.	1	550	5	1375.00	New Scheme
Bechimari		6. Irrigation Bund at No.-2 Majgaon	1	75	5	187.50	New Scheme
Bechimari		7. Const. Of F.I.S. at No.-4 Baruajhar	1	250	5	625.00	New Scheme
Bechimari		8. Pub-Latakhat Laljora Bund I/S	1	1200	5	2810.00	On going
Dalgaon Sialmari	AIBP 2008-09	1. Arimari F.I.S.	1	600	5	1080.00	On going
Dalgaon Sialmari	AIBP 2013-14	2. Sukhajani F.I.S (Ph-II)	1	1900	5	892.50	On going
Dalgaon Sialmari		3. Dhekeriagon Jan F.I.S.	1	600	5	1500.00	New Scheme
Dalgaon Sialmari		4. Nimtoli F.I.S.	1	900	5	2250.00	New Scheme
Kaligaon	AIBP 2012-13	1. Bega F.I.S.		1800	5	2451.80	On going

Kaligaon	do	2 Niz-Dala F.I.S.		35	5	451.75	On going
Kaligaon	AIBP 2013-14	3. Bhalukmari F.I.S.		350	5	495.91	On going
Kaligaon		4. Jabarikuchi Maroichuba FIS.		300	5	120.00	New Scheme
Kaligaon		5. Taxi River F.I.S		1000	5	2500.00	New Scheme
Kaligaon		6. Improvement of Kalpani main canal from MM road to Saloipara paddy field.		30	5	75.00	New Scheme
Kaligaon		7. Improvement of canal from Vetuapota to Bhakatpara with sluice gate.		40	5	100.00	New Scheme
Kaligaon		8. Improvement of both canal embt. Of Makelikanda Bhurargarh link dong with CC Fall.		40	5	100.00	New Scheme
Kaligaon		9. Improvement of dong from Bhurargarh shiv mandir Makelikanda dong to Nabin Deka house.		50	5	125.00	New Scheme
Kaligaon		10. Improvement of Right main Canal from ch. 7000m to 14000m with CC lining and branch canal from ch. 0.0m to ch.3000m with rep. of dist. Head regulator at ch. 7000m of Kulsik Makelikanda F.I.S.		350	5	875.00	New Scheme
Paschim Mangaldai	AIBP 2009-10	1. Balupara F.I.S.		1680	5	332.00	On going
Paschim Mangaldai	AIBP 2012-13	2. C.M.Dutta Bund F.I.S. (Ph-II)		1990	5	2940.00	On going
Paschim Mangaldai		3. Punia FIS (on Noanadi River)		900	5	2250.00	New Scheme
Paschim Mangaldai		4. Janaram Chowka FIS (on Saktola River)		800	5	2000.00	New Scheme
Paschim Mangaldai		5. Extension of Noanadi F.I.S.		600	5	1500.00	On going
Paschim Mangaldai	AIBP 2008-09	6.Noa Nadi Kachia Bund IS		400	5	25.20	Completed
Paschim Mangaldai	AIBP 2009-10	7.Saktola Barkurpar Bund IS (Ph-I & II)		620	5	851.00	On going

Paschim Mangaldai	proposed	8.Noa Nadi Kachia Bund IS (Ph-II)		400	5	270.00	New Scheme
Pub Mangaldai	AIBP 2008-09	1. Tangni F.I.S.		1950	5	2903.10	On going
Sipajhar	AIBP 2008-09	1. Nonoi F.I.S.	1	1998	5	1998	On going
Sipajhar	AIBP 2012-13	1. Duni F.I.S.	1	1800	5	1800	On going
Sipajhar	do	2. Athkuria F.I.S.	1	350	5	350	On going
Sipajhar		3.Suktaguri F.I.S.	1	1500	5	1500	New Scheme
Sipajhar		4. Extension of right main canal from ch. 1500m to 7000m covering village Baminijhar, Hengalpara, Borigaon & Salikajhar of Duni F.I.S	1	300	5	300	New Scheme
Sipajhar		5. Deomornoi F.I.S.	1	400	5	400	New Scheme
Sipajhar		6. Modernisation of Kulsik Naharbari F.I.S. (Re-sectioning & C.C. Lining of canal from Ch. 1000M to 14100M)	1	850	5	850	New Scheme
Sipajhar		7. Renovation of headwork & Re-sectioning & C.C. Lining of both main canal of Kalpani FIS from (From 0-7000m)	1	600	5	600	New Scheme
Sipajhar		8. Improvement of Canal from Kohokhal bundh to Harharia Pather at Bareri	1	100	5	100	New Scheme
Sipajhar	AIBP 2008-09	9. Hussain Chuburi Dimmila Bund IS	1	210	5	210	On going
		Total	41	30558		44621.25	

Annexure VIII. C: Block Wise Strategic Action Plan for Lift Irrigation Plan in the District under PMKSY

Block	Component	Activities	Total Number/ Capacity(cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 yrs)	Estimated Cost (Rs. In Lakh)	Remarks
Bechimari			0	0	0	0	
Kalaigaon		1. Hapamara L.I.S.		50	5	125.00	New Scheme
Kalaigaon		2. Repairing of canal from Kacharipar to Deomorno with bund and sluice gate at Lakhimpur L.I.S.		450	5	1125.00	New Scheme
Kalaigaon		3. Gariapara L.I.S.		70	5	175.00	New Scheme
Kalaigaon		4. Pub Kawadonga L.I.S.		70	5	175.00	New Scheme
Kalaigaon		5. Daksin Kawadonga L.I.S.		70	5	175.00	New Scheme
Kalaigaon		6. Burhinagar Tank L.I.S.		70	5	175.00	New Scheme
Kalaigaon		7. Const. of RCC Canal at Dallanghat L.I.S.		50	5	80.00	New Scheme
Dalgaon Sialmari		1. No.2 Arimari L.I.S. on river Sukhajani at Kalapani	1	500	5	1250.00	New Scheme
Dalgaon Sialmari		2. Dharanipur L.I.S. on river Sukhajani	1	500	5	1250.00	New Scheme
Dalgaon Sialmari		3. Kherani L.I.S. on Brahmaputra	1	500	5	1250.00	New Scheme
Pashim Mangaldai			0	0	0	0.00	0
Pub Mangaldai			0	0	0	0.00	0
Sipajhar		1. Renovation and extension of Kurua L.I.S.	1	100	5	100	New Scheme

Sipajhar	2. Const. of LIS at Nonoi river near Ghorasal (1 No Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	3. Const. of LIS at at Kalpani river near Gangapukhuri-Burhakhat (1 Nos Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	4. Const. of LIS at at Nonoi river near No-1 Chengeliapathar (1 Nos Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	5. Renovation of Burhinagar tank LIS at Burhinagar (1 Nos Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	6. Const. of LIS at Nonoi river to Kehera Pathar (1 No Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	7. Const. of LIS at Nonoi river near Nagaon Khatara (1 No Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	8. Const. of LIS at Nonoi river U/S of NH-15 near Ketekibari pathar (1 No Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	9. Const. of LIS at Nonoi river U/S of NH-15 near Bengenadhowa pathar (1 No Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	10. Const. of LIS at Nonoi river near Metapara & Pokadoli pathar (1 No Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	11. Const. of LIS at Nonoi river near Kacharidol paddy field (1 No Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	12. Const. of LIS at Nonoi river near Punia & Pub Dhekipara village paddy field (1 No Point)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	13. Const. of LIS at Nonoi river near gopalpur village paddy field (1 No Pt)	1/2 Cusec per Point	35	5	35	New Scheme
Sipajhar	14. Renovation and extension of canal system of Kurua L.I.S	1	100	5	100	New Scheme
Sipajhar	15. Renovation of Taragaon L.I.S.		100	5	100	New Scheme
	Total	25	3050		6500.00	

Annexure VIII. C: Block Wise Strategic Action Plan for Ground Water Development in the District under PMKSY

Block	Component	Activities	Total Number/ Capacity(cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 yrs)	Estimated Cost (Rs. In Lakh)	Remarks
Bechimari		1. Deep Tubewell I/S at Nepali Pathar near Georaj Nirala house at No.-1 Bargarah Khuti. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		2. Deep Tubewell I/S at Bargarah Khuti Pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		3. Deep Tubewell I/S at village Chakarabasti. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		4. Deep Tubewell I/S at No.-3 Takimari village. (Solar System)	1 Point/ 0.5 Cusec per point	10		25.00	New Scheme
Bechimari		5. Deep Tubewell I/S at No.-3 Madhabgohai village. (Solar System)	1 Point/ 0.5 Cusec per point	10		25.00	New Scheme
Bechimari		6. Deep Tubewell I/S at No.-3 Khairakata village. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		7. Deep Tubewell I/S at No.-3 Baruapara village. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		8. Deep Tubewell I/S at No.-2 Bargarahkhuti village. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		9. Deep Tube well I/S at Chakarabasti chariali. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		10. Deep Tube well I/S at village No.-1 Barjhar, Darrang. (Solar System)	1 Point/ 0.5 Cusec per point	10		25.00	New Scheme
Bechimari		11. Deep Tubewell I/S at village Barjhar Grant, Darrang. (Solar System)	1 Point/ 0.5 Cusec per point	10		25.00	New Scheme
Bechimari		12. Deep Tubewell I/S at village No.-3 Barjhar, Darrang. (Solar System)	1 Point/ 0.5 Cusec per point	10		25.00	New Scheme
Bechimari		13. Deep Tubewell I/S at village No.-1 Barjhar , Darrang. (Solar System)	1 Point/ 0.5 Cusec per point	10		25.00	New Scheme
Bechimari		14. Deep Tubewell I/S at Uttar daipam. (Solar System)	1 Point/ 1.5 Cusec per point	25		62.50	New Scheme
Bechimari		15. Deep Tubewell I/S at Paschim daipam. (Solar System)	1 Point/ 1.5 Cusec per point	25		62.50	New Scheme
Bechimari		16. Deep Tube well I/S at Pub-Uttar Majgaon. (Solar System)	1 Point/ 1.5 Cusec per point	25		62.50	New Scheme
Bechimari		17. Deep Tube well I/S at Padupari East Chilapathar. (Solar System)	1 Point/ 2.0Cusec per point	35		87.50	New Scheme
Bechimari		18. Deep Tubewell I/S at No.-2 Majgaon. (Solar	1 Point/ 2.0Cusec	35		87.50	New

		System)	per point				Scheme
Bechimari		19. Deep Tubewell I/S at Sukhabahi East. (Solar System)	1 Point/ 1.5 Cusec per point	25		62.50	New Scheme
Bechimari		20. Deep Tubewell I/S at Alisinga Jungle. (Solar System)	1 Point/ 1.5 Cusec per point	25		62.50	New Scheme
Bechimari		21. Deep Tubewell I/S at Baligaon. (Solar System)	1 Point/ 1.5 Cusec per point	25		62.50	New Scheme
Bechimari		22. Deep Tubewell I/S at Padupari West. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		23. Deep Tubewell I/S at Paschim Baliagaon. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		24. Deep Tubewell I/S at Pub-Baliagaon. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		25. Deep Tubewell I/S at Namati near Marabil. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		26. Deep Tubewell I/S at Baligaon. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		27. Deep Tubewell I/S at Sukhabahi. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		28. Deep Tubewell I/S at Madhabpur-B Pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		29. Deep Tubewell I/S at Madhabpur-A Pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		30. Deep Tubewell I/S at Nadirkakh- A pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		31. Deep Tubewell I/S at Nadirkakh- B pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		32. Deep Tubewell I/S at Nadirkakh- B pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		33. Deep Tubewell I/S at Gendapukhuri Pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		34. Deep Tubewell I/S at Barguli Pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		35. Deep Tubewell I/S at No.-3 Chikanmati Pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		36. Deep Tubewell I/S at No.-1 Chikanmati Pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		37. Deep Tubewell I/S at No.-1 Bechimari Jungle Pathar. (Solar System)	1 Point/ 1.00 Cusec per point	20		50.00	New Scheme
Bechimari		38. Deep Tubewell I/S at Madhupur South Pathar. (Solar System)	1 Point/ 2.00 Cusec per point	30		75.00	New Scheme
Bechimari		39. Deep Tubewell I/S at No.-5 Baruajhar-A. (Solar	1 Point/ 0.5 Cusec	10		25.00	New

	System)	per point			Scheme
Bechimari	40. Deep Tubewell I/S at No.-5 Barujhar-B. (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Bechimari	41. Deep Tubewell I/S at Kahibari Pub Chuba. (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Bechimari	42. Deep Tubewell I/S at Kahibari Paschim Chuba. (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Bechimari	43. Deep Tubewell I/S at Sarisabari Pub Chuba. (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Bechimari	44. Deep Tubewell I/S at Sarisabari Paschim Chuba. (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Bechimari	45. Deep Tubewell I/S at Dowarpara Pub Chuba. (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Bechimari	46. Deep Tubewell I/S at Dowarpara Paschim Chuba. (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Bechimari	47. Deep Tubewell I/S at Dompara . (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Bechimari	48. Deep Tubewell I/S at Barujhar Uttar Chuba . (Solar System)	1 Point/ 0.5 Cusec per point	10	25.00	New Scheme
Dalgaon Sialmari	1. Ghiladhari Gaon D.T.W. I/S	2 Points/ 2 Cusec per Point	70	175.00	New Scheme
Dalgaon Sialmari	2. No.-4 Sialkhuti D.T.W. I/S	3 Points/ 2 Cusec per Point	105	262.50	New Scheme
Dalgaon Sialmari	3. Sialmari Majgaon D.T.W. I/S	2 Points/ 2 Cusec per Point	70	175.00	New Scheme
Dalgaon Sialmari	4. Rangagarah D.T.W. I/S	2 Points/ 2 Cusec per Point	70	175.00	New Scheme
Dalgaon Sialmari	5. Bagichakakh D.T.W. I/S	2 Points/ 2 Cusec per Point	70	175.00	New Scheme
Dalgaon Sialmari	6. Thaltholigaon D.T.W. I/S	3 Points/ 2 Cusec per Point	105	262.50	New Scheme
Dalgaon Sialmari	7. Rangagarah Pathar D.T.W. I/S	2 Points/ 2 Cusec per Point	70	175.00	New Scheme
Dalgaon Sialmari	8. Nowarashisa D.T.W. I/S	3 Points/ 2 Cusec per Point	105	262.50	New Scheme
Dalgaon Sialmari	9. Renovation of Kopati L.I.S. (To be converted into D.T.W)	3 Points/ 2 Cusec per Point	105	262.50	New Scheme
Dalgaon Sialmari	10. Revival of Kalyangaon D.T.W. I/S	8 Points/ 1.0 Cusec	160	400.00	New Scheme
Dalgaon Sialmari	11. Alikakh D.T.W. I/S	8 Points/ 1.5 Cusec	200	500.00	New Scheme
Dalgaon	12. Khagjani D.T.W. I/S	6 Points/ 1.0 Cusec	120	300.00	New

Sialmari							Scheme
Dalgaon Sialmari		13. Kachomari Sonari D.T.W. I/S	3 Points/ 1.5 Cusec per Point	75		187.50	New Scheme
Dalgaon Sialmari		14. Sialmari D.T.W. I/S	2 Points/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		15. No.-1 Sialmari D.T.W. I/S	2 Points/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		16. Konakatapara D.T.W. I/S	2 Points/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		17. Sialmari Nepaligaon D.T.W. I/S	1 Points/ 1.5 Cusec per Point	25		62.50	New Scheme
Dalgaon Sialmari		18. Kacharivetitooop D.T.W. I/S	4 Points/ 1.5 Cusec per Point	100		250.00	New Scheme
Dalgaon Sialmari		19. No.-3 Kacharivetitooop D.T.W. I/S	3 Points/ 1.5 Cusec per Point	75		187.50	New Scheme
Dalgaon Sialmari		20. Bechimari D.T.W. I/S	4 Points/ 1.5 Cusec per Point	100		250.00	New Scheme
Dalgaon Sialmari		21. Kopatigaon D.T.W. I/S	4 Points/ 1.5 Cusec per Point	100		250.00	New Scheme
Dalgaon Sialmari		22. Borkur Bodlichor D.T.W. I/S	4 Points/ 1.5 Cusec per Point	100		250.00	New Scheme
Dalgaon Sialmari		23. No.2 Sialmari D.T.W. I/S	6 Points/ 1.5 Cusec per Point	150		375.00	New Scheme
Dalgaon Sialmari		24. Borkur D.T.W. I/S	1 Point/ 1.5 Cusec per Point	25		62.50	New Scheme
Dalgaon Sialmari		25. Roumari D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		26. No.4 Shyampur D.T.W. I/S	4 Point/ 1.5 Cusec per Point	100		250.00	New Scheme
Dalgaon Sialmari		27. Badlichar D.T.W. I/S	1 Point/ 1.5 Cusec per Point	25		62.50	New Scheme
Dalgaon Sialmari		28. No.3 Shyampur D.T.W. I/S	1 Point/ 1.5 Cusec per Point	25		62.50	New Scheme
Dalgaon Sialmari		29. Bilpar D.T.W. I/S	1 Point/ 1.5 Cusec per Point	25		62.50	New Scheme
Dalgaon Sialmari		30. No.1 Shyampur D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		31. No.2 Shyampur D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		32. Nadirmukh D.T.W. I/S	1 Point/ 1.5 Cusec per Point	25		62.50	New Scheme
Dalgaon		33. Muwamari D.T.W. I/S	2 Point/ 1.5 Cusec	50		125.00	New

Sialmari			per Point				Scheme
Dalgaon Sialmari		34. Bhotpukhuri D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		35. Ghenamari D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		36. No.1 Punia D.T.W. I/S	3 Point/ 1.5 Cusec per Point	75		187.50	New Scheme
Dalgaon Sialmari		37. Nizbaruajhar D.T.W. I/S	3 Point/ 1.5 Cusec per Point	75		187.50	New Scheme
Dalgaon Sialmari		38. Simalubari D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		39. No.3 Golandi D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		40. Duliapara D.T.W. I/S	4 Points/ 1.5 Cusec per Point	100		250.00	New Scheme
Dalgaon Sialmari		41. Mollapara D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		42. Baghorbari D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		43. No.2 Golandi D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		44. No.2 Kowaripukhuri D.T.W. I/S	3 Point/ 1.5 Cusec per Point	75		187.50	New Scheme
Dalgaon Sialmari		45. Arimari D.T.W. I/S	5 Point/ 1.5 Cusec per Point	125		312.50	New Scheme
Dalgaon Sialmari		46. Badlibarali D.T.W. I/S	4 Point/ 1.5 Cusec per Point	100		250.00	New Scheme
Dalgaon Sialmari		47. Borhaipara D.T.W. I/S	2 Point/ 1.5 Cusec per Point	50		125.00	New Scheme
Dalgaon Sialmari		48. Junglepara D.T.W. I/S	1 Point/ 2.0 Cusec per Point	35		87.50	New Scheme
Dalgaon Sialmari		49. Ulubari D.T.W. I/S	1 Point/ 2.0 Cusec per Point	35		87.50	New Scheme
Dalgaon Sialmari		50. Barongabri D.T.W. I/S	1 Point/ 2.0 Cusec per Point	35		87.50	New Scheme
Dalgaon Sialmari		51. 10 HP Solar Power DTW I/S at Niz Baruajhar Pachim	1 Point/ 1.0 Cusec per Point	18		45.00	New Scheme
Dalgaon Sialmari		52. 10 HP Solar Power DTW I/S at No.2 Kuwaripukhuri	2 Point/ 1.0 Cusec per Point	19		47.50	New Scheme
Dalgaon Sialmari		53. 10 HP Solar Power DTW I/S at Bechimari Pather	3 Point/ 1.0 Cusec per Point	20		50.00	New Scheme
Dalgaon Sialmari		54. 10 HP Solar Power DTW I/S at No.3	4 Point/ 1.0 Cusec	21		52.50	New

Sialmari	Chikonmati	per Point				Scheme
Dalgaon Sialmari	55. 10 HP Solar Power DTW I/S at Pachim Kamarpara.	5 Point/ 1.0 Cusec per Point	22		55.00	New Scheme
Dalgaon Sialmari	56. 10 HP Solar Power DTW I/S at Pub Kamarpara.	6 Point/ 1.0 Cusec per Point	23		57.50	New Scheme
Dalgaon Sialmari	57. 10 HP Solar Power DTW I/S at Mowamari (Fakirpara)	7 Point/ 1.0 Cusec per Point	24		60.00	New Scheme
Dalgaon Sialmari	58. 10 HP Solar Power DTW I/S at Bihudia.	8 Point/ 1.0 Cusec per Point	25		62.50	New Scheme
Dalgaon Sialmari	59. 10 HP Solar Power DTW I/S at Kasomari Nepaligaon.	9 Point/ 1.0 Cusec per Point	26		65.00	New Scheme
Dalgaon Sialmari	60. 10 HP Solar Power DTW I/S at Kasomari Chapori.	10 Point/ 1.0 Cusec per Point	27		67.50	New Scheme
Dalgaon Sialmari	61. 10 HP Solar Power DTW I/S at Barkur Village.	11 Point/ 1.0 Cusec per Point	28		70.00	New Scheme
Dalgaon Sialmari	62. 10 HP Solar Power DTW I/S at Bilpar Village.	12 Point/ 1.0 Cusec per Point	29		72.50	New Scheme
Dalgaon Sialmari	63. 10 HP Solar Power DTW I/S at Rowmari Village.	13 Point/ 1.0 Cusec per Point	30		75.00	New Scheme
Dalgaon Sialmari	64. 10 HP Solar Power DTW I/S at No.2 Shyampur.	14 Point/ 1.0 Cusec per Point	31		77.50	New Scheme
Dalgaon Sialmari	65. 10 HP Solar Power DTW I/S at No.1 Arimari.	15 Point/ 1.0 Cusec per Point	32		80.00	New Scheme
Dalgaon Sialmari	66. 10 HP Solar Power DTW I/S at No.3 Arimari.	16 Point/ 1.0 Cusec per Point	33		82.50	New Scheme
Dalgaon Sialmari	67. 10 HP Solar Power DTW I/S at Kheroni Chapori.	17 Point/ 1.0 Cusec per Point	34		85.00	New Scheme
Dalgaon Sialmari	68. 10 HP Solar Power DTW I/S at Kasomari Nepaligaon Pt-II	18 Point/ 1.0 Cusec per Point	35		87.50	New Scheme
Kalaigaon	1. Const. of DTW I/S at Daksin Bokrajhar (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon	2. Const. of DTW I/S at Dhan khunda paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon	3. Const. of DTW I/S at Jhargaon Purana Mandir (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon	4. Const. of DTW I/S at Tengabari Chowk (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon	5. Const. of DTW I/S at Barpathar paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon	6. Const. of DTW I/S at Dhopartal paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon	7. Const. of DTW I/S at Bagarital paddy field (1 No.	1/2 Cusec per Point	35		87.50	New

		Point)					Scheme
Kalaigaon		8. Const. of DTW I/S at Athtiital paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		9. Const. of DTW I/S at Kendutal paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		10. Const. of DTW I/S at Jamartal paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		11. Const. of DTW I/S at Pachim paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		12. Const. of DTW I/S at Pub Mowamari paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		13. Const. of DTW I/S at Bagarkash paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		14. Const. of DTW I/S at Chenibari paddy field (3 Nos. Point)	3/2 Cusec per Point	105		262.50	New Scheme
Kalaigaon		15. Const. of DTW I/S at Barkola paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		16. Const. of DTW I/S at No.1 Dhansirikash paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		17. Const. of DTW I/S at No.2 dhansirikash paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		18. Const. of DTW I/S at Pachim Podokhat paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		19. Const. of DTW I/S at Mousita paddy field (1 No. Point)	1/2 Cusec per Point	35		87.50	New Scheme
Kalaigaon		20. Const. of DTW I/S (10HP Solar Power) at Kadamtala.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		21. Const. of DTW I/S (10HP Solar Power) at Damarguri.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		22. Const. of DTW I/S (10HP Solar Power) at Jhargaon & Topaghat (2Nos. Point).	2/1 Cusec per Point	40		100.00	New Scheme
Kalaigaon		23. Const. of DTW I/S (10HP Solar Power) at Kaithpara.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		24. Const. of DTW I/S (10HP Solar Power) at Tengabari, Samalakhata, Choudhuripara & Neogpara. (4 Nos Point)	4/1 Cusec per Point	80		200.00	New Scheme
Kalaigaon		25. Const. of DTW I/S (10HP Solar Power) at Kacharipara.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		26. Const. of DTW I/S (10HP Solar Power) at Durgagaon.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		27. Const. of DTW I/S (10HP Solar Power) at Kawadanga.	1/1 Cusec per Point	20		50.00	New Scheme

Kalaigaon		28. Const. of DTW I/S (10HP Solar Power) at Barjhar.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		29. Const. of DTW I/S (10HP Solar Power) at Bhurargaon.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		30. Const. of DTW I/S (10HP Solar Power) at Daksin Bokrajhar.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		31. Const. of DTW I/S (10HP Solar Power) at Naharbari	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		32. Const. of DTW I/S (10HP Solar Power) at Pariapara.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		33. Const. of DTW I/S (10HP Solar Power) at Uttar Balipota.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		34. Const. of DTW I/S (10HP Solar Power) at Baligaon.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		35. Const. of DTW I/S (10HP Solar Power) at Makelikanda.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		36. Const. of DTW I/S (10HP Solar Power) at Botabari.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		37. Const. of DTW I/S (10HP Solar Power) at Niz Patala.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		38. Const. of DTW I/S (10HP Solar Power) at Pachim Potala.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		39. Const. of DTW I/S (10HP Solar Power) at Darogachuba.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		40. Const. of DTW I/S (10HP Solar Power) at Sigribari.	1/1 Cusec per Point	20		50.00	New Scheme
Kalaigaon		41. Const. of DTW I/S at west Kapilisatra paddy field (1 No. Point)	1/2 Cusec per Point	35		87.5	
Paschim Mangaldai		1. Const. of DTW I/S at Jogipara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		2. Const. of DTW I/S at Naharbari Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai		3. Const. of DTW I/S at Niz Chapai Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai		4. Const. of DTW I/S at Kumarpara Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai		5. Const. of DTW I/S at Jhargaon Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai		6. Const. of DTW I/S at Sareng Chuburi (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		7. Const. of DTW I/S at Kameipara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme

Paschim Mangaldai		8. Const. of DTW I/S at Alagjhari Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		9. Const. of DTW I/S at Adhamapara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		10. Const. of DTW I/S at Bezpara Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai		11. Const. of DTW I/S at Saikiapara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		12. Const. of DTW I/S at Medhipara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		13. Const. of DTW I/S at Bar-Athiabaria Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		14. Const. of DTW I/S at Soto-Athiabaria Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		15. Const. of DTW I/S at Patalsingpara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		16. Const. of DTW I/S at Keotpara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		17. Const. of DTW I/S at Kabikara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		18. Const. of DTW I/S at Pakabangipara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		19. Const. of DTW I/S at Ganakpara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		20. Const. of DTW I/S at Niz Dahi Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		21. Const. of DTW I/S at Barsatra Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		22. Const. of DTW I/S at Barangabari Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		23. Const. of DTW I/S at Tamulipara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		24. Const. of DTW I/S at Nagaon (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		25. Const. of DTW I/S at Bar Nagaon Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		26. Const. of DTW I/S at Choto Nagaon Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		27. Const. of DTW I/S at Ghatuapara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai		28. Const. of DTW I/S at Boinaojhapara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme

Paschim Mangaldai	29. Const. of DTW I/S at Bar Kumarpara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	30. Const. of DTW I/S at Manitari Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai	31. Const. of DTW I/S at Bar Thekerabari Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai	32. Const. of DTW I/S at Garkhowapara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	33. Const. of DTW I/S at Bhalukhowapara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	34. Const. of DTW I/S at Dariapara Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	35. Const. of DTW I/S at Bhangurichuba (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	36. Const. of DTW I/S at Saru Thekerabari Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai	37. Const. of DTW I/S at Hatow Chapori (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai	38. Const. of DTW I/S at Kamarpara Village (2 nos. point)	2/2 Cusec per Point	70		175.00	New Scheme
Paschim Mangaldai	39. Const. of DTW I/S at No1Bezpara Village(Bharalichuba) (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	40. Const. of DTW I/S at Mohanpur Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	41. Const. of DTW I/S at Bhokelimaradal Village (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	42. Const. of DTW I/S at No 1 Ghatarag Chapori (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	43. Const. of DTW I/S at No 2 Ghatarag Chapori (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	44. Const. of DTW I/S at No 1 Rowmari Chapori (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	45. Const. of DTW I/S at No 2 Rowmari Chapori (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	46. Const. of DTW I/S at Bhokelikanda (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	47. Const. of DTW I/S at No 1 Borolekhaiti (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	48. Const. of DTW I/S at No 2 Borolekhaiti (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Paschim Mangaldai	49. Const. of DTW I/S at No 3 Borolekhaiti (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme

Paschim Mangaldai		50. Const. of DTW I/S at Bherpori Chapori (1 no. point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		1. Const. of DTW I/S at Dhansiri kash (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		2. Const. of DTW I/S at Gadhowa Chapori (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		3. Const. of DTW I/S at Gadhowa NC village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		4. Const. of DTW I/S at No 2 Nangli Char (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		5. Const. of DTW I/S at Chutiapara Char (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		6. Const. of DTW I/S at No.1 Nangli Char (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		7. Const. of DTW I/S at Chaolkhowa Chapori (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		8. Const. of DTW I/S at Aparia Chapori (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		9. Const. of DTW I/S at Dhariakhaity Chapori (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		10. Const. of DTW I/S at Baralekhaity Chapori (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		11. Const. of DTW I/S at Baigarmari village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		12. Const. of DTW I/S at Islampur village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		13. Const. of DTW I/S at NC Islampur village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		14. Const. of DTW I/S at Ozagaon village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		15. Const. of DTW I/S at Niz Kharupetia (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		16. Const. of DTW I/S at Bologarah (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		17. Const. of DTW I/S at Hirapara (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		18. Const. of DTW I/S at Boragaon (Hirapara) (3 Nos Point)	3/2 Cusec per Point	105		262.50	New Scheme
Pub Mangaldai		19. Const. of DTW I/S at Khataniapara (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		20. Const. of DTW I/S at Mazgaon (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme

Pub Mangaldai		21. Const. of DTW I/S at Bandia Village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		22. Const. of DTW I/S at Baghpori Village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		23. Const. of DTW I/S at Mangaldai Gaon (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		24. Const. of DTW I/S at Mowamari Village(2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		25. Const. of DTW I/S at Chereng Chapori (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		26. Const. of DTW I/S at Paniakhaity Village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		26. Const. of DTW I/S at Paniakhaity Village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		27. Const. of DTW I/S at No 2 Magurmari (3 Nos Point)	3/2 Cusec per Point	105		262.50	New Scheme
Pub Mangaldai		28. Const. of DTW I/S at Nispy Garapori Village (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		29. Const. of DTW I/S at Atakata Chapori (2 Nos Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		30. Const. of DTW I/S at Kasir Char (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		31. Const. of DTW I/S at Arimari Chuba of Grandland Bagicha (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		32. Const. of DTW I/S near Munser Ali House at Chapai Dalgaon (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		33. Const. of DTW I/S at Kacharibari (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		34. Const. of DTW I/S at Chapai Dalgaon (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		35. Const. of DTW I/S at Rajapukhuri (1 No Point)	1/2 Cusec per Point	35		87.50	New Scheme
Pub Mangaldai		36. Const. of DTW I/S at Latakhat (3 No Point)	3/2 Cusec per Point	105		262.50	New Scheme
Pub Mangaldai		37. Const. of DTW I/S at Bagdia (3 No Point)	3/2 Cusec per Point	105		262.50	New Scheme
Pub Mangaldai		37. Const. of DTW I/S at Batabari (3 No Point)	3/2 Cusec per Point	105		262.50	New Scheme
Pub Mangaldai		37. Const. of DTW I/S at Sherpur (3 No Point)	3/2 Cusec per Point	105		262.50	New Scheme
Pub Mangaldai		38. Const. of DTW I/S at Jogipara Village (3 Nos Point)	3/2 Cusec per Point	105		262.50	New Scheme

Pub Mangaldai		39. Const. of DTW I/S at No.1 Thekerabari (2 No Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		40. Const. of DTW I/S at No.2 Thekerabari (2 No Point)	2/2 Cusec per Point	70		175.00	New Scheme
Pub Mangaldai		41. Const. of DTW I/S at No.3 Thekerabari (2 No Point)	2/2 Cusec per Point	70		175.00	New Scheme
Sipajhar		1. Const. of DTW I/S at Dalarpathar (1 No. Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		2. Const. of DTW I/S at Uhupathar (1 No. Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		3. Const. of DTW I/S at Bhekidalpathar (1 No. Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		4. Const. of DTW I/S at Dagipathar (1 No. Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		5. Const. of DTW I/S at Balipathar (1 No Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		6. Const. of DTW I/S at Saktalipathar (1 No Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		7. Const. of DTW I/S at Kuwalipathar (1 No Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		8. Const. of DTW I/S at Bardalpathar Chapori (1 No Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		9. Const. of DTW I/S at Barkarapathar (1 No Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		10. Const. of DTW I/S at Ghulipathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		11. Const. of DTW I/S at Ahot-tolpathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		12. Const. of DTW I/S at Khejuripathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		13. Const. of DTW I/S at Dolibari pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		14. Const. of DTW I/S at Kamakhyapathar (1 No Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		15. Const. of DTW I/S at Pachimpathar (1 No Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		16. Const. of DTW I/S at Prakhudha pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		17. Const. of DTW I/S at Dakhin Santi pukhuri (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		18. Const. of DTW I/S at Niz-Sarabari Kalitapara Pathar (1 No. Point)	1/2 Cusec per Point	35		35	New Scheme

Sipajhar		19. Const. of DTW I/S at Hatimuria Village (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		20. Const. of DTW I/S at Rupahikakh Village (4 Nos Point)	4/2 Cusec per Point	140		140	New Scheme
Sipajhar		21. Const. of DTW I/S at Satkhali village (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		22. Const. of DTW I/S at Rajapukhuri Village(2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		23. Const. of DTW I/S at Na-Pukhuri Deka Chuba (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		24. Const. of DTW I/S at Satkhali Hindupara Village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		25. Const. of DTW I/S at Uttar Bherua Paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		26. Const. of DTW I/S at Bherua gaon Paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		27. Const. of DTW I/S at Bihai gaon Paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		28. Const. of DTW I/S at Nowdinga village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		29. Const. of DTW I/S at Balikuchi village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		30. Const. of DTW I/S at Sonarikhil village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		31. Const. of DTW I/S at Titkuchi village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		32. Const. of DTW I/S at Burha village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		33. Const. of DTW I/S at Padmajhar village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		34. Const. of DTW I/S at Chakarmukh village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		35. Const. of DTW I/S at Burhadoi Chapori village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		36. Const. of DTW I/S at Burhadoi(B) village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		37. Const. of DTW I/S at Jayantipar village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		38. Const. of DTW I/S at Piprakuchi village (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		39. Const. of DTW I/S at Ramraipara village (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme

Sipajhar		40. Const. of DTW I/S at Barkumarpara village (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		41. Const. of DTW I/S at Patharighat village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		42. Const. of DTW I/S at Ramgaon village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		43. Const. of DTW I/S at Mahaliapara pathar near Bali Pukhuri(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		44. Const. of DTW I/S at Bareri (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		45. Const. of DTW I/S at Kharhowapara Borpathar (4 Nos Point)	4/2 Cusec per Point	140		140	New Scheme
Sipajhar		46. Const. of DTW I/S at Kharhowapara Patidarrang, Bareri, Teltopi Pathar (4 Nos Point)	4/2 Cusec per Point	140		140	New Scheme
Sipajhar		47. Const. of DTW I/S at Kharabhanga Pathar (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		48. Const. of DTW I/S at raikabari Pathar (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		49. Const. of DTW I/S at Lozrajara Pathar (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		50. Const. of DTW I/S at Lozra Patigiri Pathar (3 Nos Point)	3/2 Cusec per Point	105		105	New Scheme
Sipajhar		51. Const. of DTW I/S at Lozra Bor Pathar (3 Nos Point)	3/2 Cusec per Point	105		105	New Scheme
Sipajhar		52. Const. of DTW I/S at Lozra Arjun tol Pathar (2 Nos Point)	4/2 Cusec per Point	140		140	New Scheme
Sipajhar		53. Const. of DTW I/S at Koikara Chenga-Pathar (3 Nos Point)	3/2 Cusec per Point	105		105	New Scheme
Sipajhar		54. Const. of DTW I/S at Kumarpara Kona-Pathar (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		55. Const. of DTW I/S at Kharkhowapara (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		56. Const. of DTW I/S at Kumarpara Moutpara Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		57. Const. of DTW I/S at Patidarrang Dolpathar, Kanyapathar (3 Nos Point)	3/2 Cusec per Point	105		105	New Scheme
Sipajhar		58. Const. of DTW I/S at Chengapara village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		59. Const. of DTW I/S at Muslimghopa village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		60. Const. of DTW I/S at ranga Charai Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme

Sipajhar		61. Const. of DTW I/S at Padmapukhuri Paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		62. Const. of DTW I/S at Padmapukhuri Paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		63. Const. of DTW I/S at Bamunchuba field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		64. Const. of DTW I/S at Sarudalpathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		65. Const. of DTW I/S at Hazarikapara Barpathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		66. Const. of DTW I/S at Barchala paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		67. Const. of DTW I/S at Swet-Madar(Deka Chuburi) (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		68. Const. of DTW I/S at Pithakhowa Kuheichuba paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		69. Const. of DTW I/S at Pithakhowa Kuheichuba paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		70. Const. of DTW I/S at Kacharijhar paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		71. Const. of DTW I/S at Bodar pathar Hazarikapara (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		72. Const. of DTW I/S at Biswa Satra Paddy Field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		73. Const. of DTW I/S at Biswa Satra Paddy Field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		74. Const. of DTW I/S at Hazarikapara Gadlichuba (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		75. Const. of DTW I/S at Nayakpara Bengnoi pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		76. Const. of DTW I/S at Saloi pathar (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		77. Const. of DTW I/S at Baladevpara (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		78. Const. of DTW I/S at Balipara village (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		79. Const. of DTW I/S at Dokanpara pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		80. Const. of DTW I/S at Mahariapathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		81. Const. of DTW I/S at Mahariapathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme

Sipajhar		82. Const. of DTW I/S at Jatar Bhui pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		83. Const. of DTW I/S at Kana Punia pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		84. Const. of DTW I/S at Garakhia mandir pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		85. Const. of DTW I/S at Betargar pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		86. Const. of DTW I/S at Niz-Sipajhar pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		87. Const. of DTW I/S at Barpathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		88. Const. of DTW I/S at Pakabangi (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		89. Const. of DTW I/S at Barpathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		90. Const. of DTW I/S at Ambari Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		91. Const. of DTW I/S at Batabari (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		92. Const. of DTW I/S at Suktaguri (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		93. Const. of DTW I/S at saloipitoni (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		94. Const. of DTW I/S at Chandaipara Harimandir (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		95. Const. of DTW I/S at Maroi Khoirapara (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		96. Const. of DTW I/S at Maroi Khoirapara (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		97. Const. of DTW I/S at Maroi Mahariapathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		98. Const. of DTW I/S at Maroi Niginapara Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		99. Const. of DTW I/S at Punia Dol (Bijulibari) (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		100. Const. of DTW I/S at Rampara Hari Mandir (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		101. Const. of DTW I/S at Bijulibari near PBSL Ltd. (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		102. Const. of DTW I/S at Bijulibari (2Nos. Point)	2/2 Cusec per Point	70		70	New Scheme

Sipajhar		103. Const. of DTW I/S at ward no-10, Chutiyakata (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		104. Const. of DTW I/S at Bhetubari Jarawali (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		105. Const. of DTW I/S at Narikali Gopaltari pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		106. Const. of DTW I/S at Marowachowki(3 Nos Point)	3/2 Cusec per Point	105		105	New Scheme
Sipajhar		107. Const. of DTW I/S at North side of Bangalmara Paddy field(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		108. Const. of DTW I/S at Datal Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		109. Const. of DTW I/S at Batiyanabari paddy field(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		110. Const. of DTW I/S at Kanidalpathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		111. Const. of DTW I/S at Bhakumari paddy field(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		112. Const. of DTW I/S at Badiasisa pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		113. Const. of DTW I/S at Dumunichowki Boiragichuba (2 No. Pt.)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		114. Renovation of of DTW I/S at Hengalpara (2 No. Pt.)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		115. Const. of DTW I/S at Borigaon (2 No. Pt.)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		116. Const. of DTW I/S at dakhin Jaipur paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		117. Const. of DTW I/S at sanpara pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		118. Const. of DTW I/S at Khorapara pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		119. Const. of DTW I/S at Kandaniapara, Banapara pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		120. Const. of DTW I/S at Duwaripara Chalihapathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		121. Const. of DTW I/S at Khalihamari pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		122. Const. of DTW I/S at Khata Dhokaparapathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		123. Const. of DTW I/S at Pitarpar Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme

Sipajhar		124. Const. of DTW I/S at Kathamara Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		125. Const. of DTW I/S at Sarubyaspara Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		126. Const. of DTW I/S at Ojapara Kalimandir Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		127. Const. of DTW I/S at Duwaripara Dakhin-pub Pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		128. Const. of DTW I/S at Sanowatari North Paddy field (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		129. Const. of DTW I/S at Sanowa village (4 Nos Point)	4/2 Cusec per Point	140		140	New Scheme
Sipajhar		130. Const. of DTW I/S at Majgaon chuba agricultural field (2 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		131. Const. of DTW I/S at Sanowa uttar pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		132. Const. of DTW I/S at Uttar Kamargaon habi pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		133. Const. of DTW I/S at Uttar Kamargaon pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		134. Const. of DTW I/S at Dipila Gowlapara pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		135. Const. of DTW I/S at Dipila Kalitapara Anchali Smanan pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		136. Const. of DTW I/S at Khatara pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		137. Const. of DTW I/S at Dagiapara Kamargaon paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		138. Const. of DTW I/S at Dagiapara paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		139. Const. of DTW I/S at Nagaon Hatimara paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		140. Const. of DTW I/S at Dakhin Kamargaon paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		141. Const. of DTW I/S at Dakhin Kamargaon paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		142. Const. of DTW I/S at Pub Alikhapara paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		143. Const. of DTW I/S at Pub Rajadol paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		144. Const. of DTW I/S at Ghopeli village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme

Sipajhar		145. Const. of DTW I/S at Kumarpara paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		146. Const. of DTW I/S at Baghmara village paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		147. Const. of DTW I/S at Kenduguri village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		148. Const. of DTW I/S at Chengeliajhar village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		149. Const. of DTW I/S at Bogasola village (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		150. Const. of DTW I/S at Besimari pathar, Khilapam (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		151. Const. of DTW I/S at Dabar pathar, Jhakuapara (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		152. Const. of DTW I/S at Kaniaberpathar, Jhakuapara (1 No. Pt)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		153. Const. of DTW I/S at Saki pathar, Dangiachuba (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		154. Const. of DTW I/S at Tubapara pathar, Nij Sipajhar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		155. Const. of DTW I/S at Nij Sipajhar Pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		156. Const. of DTW I/S at Jhakuapara Pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		157. Const. of DTW I/S at Dolor aag Pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		158. Const. of DTW I/S at Pukhuriapara Pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		159. Const. of DTW I/S at Kanubari Pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		160. Const. of DTW I/S at Barachuba Pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		161. Const. of DTW I/S at kamarpara Pathar, Jhakuapara(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		162. Const. of DTW I/S at Kharadanga Pathar, Debananda(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		163. Const. of DTW I/S at Borsola Pathar, Borachuba(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		164. Const. of DTW I/S at Ahukata Dolor Pathar, Debananda(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		165. Const. of DTW I/S at Chotor tolol Pathar(1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme

Sipajhar		166. Renovation of DTW I/S at Dhekipara village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		167. Const. of DTW I/S at Dhekipara village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		168. Const. of DTW I/S at Punia village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		169. Const. of DTW I/S at Patgiri Chuba (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		170. Const. of DTW I/S at Chamukha pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		171. Const. of DTW I/S at Patgiri Chuba brahman chuburi (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		172. Const. of DTW I/S at Gharowa Sonapur west side (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		173. Const. of DTW I/S at Bornodi west side paddy field(4 Nos Point)	1/2 Cusec per Point	140		140	New Scheme
Sipajhar		174. Const. of DTW I/S at Maijali pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		175. Const. of DTW I/S at Lekera pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		176. Const. of DTW I/S at Bari pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		177. Const. of DTW I/S at Niz-Barampur village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		178. Const. of DTW I/S at Sahariapathar & Outol pathar at sarabari Borompur village (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		179. Const. of DTW I/S at Near Barampur Sub-centre southern paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		180. Const. of DTW I/S at Masjid pathar of sarabari Borompur village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		181. Const. of DTW I/S at north side of pota-pukhuri village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		182. Const. of DTW I/S at Ghilakuri 5 no. Ward paddy field (2 Nos Point)	2/2 Cusec per Point	70		70	New Scheme
Sipajhar		183. Const. of DTW I/S at Athkuria village (4 Nos Point)	4/2 Cusec per Point	140		140	New Scheme
Sipajhar		184. Const. of DTW I/S at north Hira para paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		185. Const. of DTW I/S at sanowa major chuba southern paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		186. Const. of DTW I/S at north Hira para paddy field (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme

Sipajhar		187. Const. of DTW I/S at Ganakbari pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		188. Const. of DTW I/S at Duni Tengeri (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		189. Const. of DTW I/S at Duni SMT (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		190. Const. of DTW I/S at Barbari pathar (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		191. Const. of DTW I/S at Niz-Salmara (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		192. Const. of DTW I/S at Chamuapara of GaneshKuwari (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		193. Const. of DTW I/S at Kalitapara of GaneshKuwari (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		194. Const. of DTW I/S at Barpathar village (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		195. No-1 Barachuba char area Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		196. No-1 Kiringbori Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		197. No-2 Dhalpur Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		198. No-2 Dhalpur Bamunichar Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		199. Renovation of DTW I/S at Kadamtoli (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		200. Const. of DTW I/S at Batabari (3 Nos Point)	3/2 Cusec per Point	105		105	New Scheme
Sipajhar		201. Const. of DTW I/S at Maharipara (1 Nos Point)	1/2 Cusec per Point	35		35	New Scheme
Sipajhar		202. Gangapukhuri(Santipukhuri) Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		203. Maz-Kurua Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		204. No-1 Suktaguri Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		205. Hengalpara Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		206. Sanowa Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		207. Bhati Kurua Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme

Sipajhar		208. No-2 Suktaguri Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		209. Niz-Sipajhar Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		210. Chalardal Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		211. Patgirichuba Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		212. Hatimuria Solar energy DTW Scheme (10 HP) (1 Nos Point)	1/1 Cusec per Point	18		18	New Scheme
Sipajhar		213. Renovation of DTW I/S at Kabeichuba (3 Nos Point)	3/2 Cusec per Point	105		105	New Scheme
		Total	808	20318		37001.00	

Annexure VIII. D: Block Wise Strategic Action Plan for Lined Channel in the District under PMKSY

Block	Component	Activities	Total Number/ Capacity(cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 yrs)	Estimated Cost (Rs. In Lakh)	Remarks
Kalaigaon		1. Const. of brick irrigation canal about 800mtr. Length from lying end point of Kulshik left main canal.		20	5	50.00	New Scheme
Kalaigaon		2. C.C.Lining of canal from Kulsik River to psddy field via No.2 Juma Maszid.		60	5	150.00	New Scheme
Kalaigaon		3. Const. of C.C.Lined canal from Kalpani Main canal to Baralakhat Athiabari, Gomtha paddy field.		20	5	50.00	New Scheme
Paschim Mangaldai		1. Construction of Left main canal with C.C.Lining of Balupara FIS.		840	5	240.00	New Scheme
Paschim Mangaldai		2. Construction of Right main canal with C.C.Lining of Balupara FIS.		840	5	240.00	New Scheme
Paschim Mangaldai		2. Providing C.C.Lining of Main canal of C.M.Dutta FIS. (Balance Portion)		646	5	520.00	Exist. Scheme
Paschim Mangaldai		3. Providing C.C.Lining of Branch canal of C.M.Dutta FIS.(Balance Portion)		543	5	436.00	Exist. Scheme

Paschim Mangaldai		4. Providing C.C.Lining of Public dong from the tail point of C.M.Dutta Main Canal (No-1 Bezpara-Konwarpara)		30	5	120.00	Exist. Scheme
Paschim Mangaldai		5. Const. of Canal from Noanadi river near C.M.Dutta FIS at Pachim Bahjani		75	5	40.00	Exist. Scheme
Pub Mangaldai		1. Const. of Lined Canal of Tangni F.I.S.		1950	5	480	New Scheme
		Total	10	5024		2326.00	

Annexure VIII. D: Block Wise Strategic Action Plan for Unlined Channel in the District under PMKSY

Block	Component	Activities	Total Number/ Capacity(cum)	Command Area/ Irrigation Potential (Ha)	Period of Implementation (5/7 yrs)	Estimated Cost (Rs. In Lakh)	Remarks
Paschim Mangaldai		1. Repairing of Sub- Canal Dhula Chapai PWD road to CM dutta Dong		4	5	10.00	New Scheme
Paschim Mangaldai		2. Repairing of Sub- Canal From CM dutta Dong to Hussain Chuburi paddy field		5	5	12.00	New Scheme
Paschim Mangaldai		3. Repairing of Sub- Canal From CM dutta Dong to Begardal paddy field connected dong.		3	5	7.50	New Scheme
Paschim Mangaldai		4. Repairing of Sub- Canal From CM dutta Dong to Khertoli (Bakara) paddy field connected dong		4	5	10.00	New Scheme
Paschim Mangaldai		5. Repairing of Canal Bagisha chuba Pitoni par to Bagisha Chuba paddy field		5	5	12.00	New Scheme
Paschim Mangaldai		6. Repairing of Sub- Canal From CM dutta Dong to Bagisha Chuba paddy field connected dong		5	5	12.00	New Scheme
Paschim Mangaldai		7. Repairing of Sub Canal from CM dutta Dong to Bezpara paddy field		3	5	7.50	New Scheme
Paschim Mangaldai		8. Repairing of Sub Canal Dhula Chapai road to Howly Mohanpur paddy field		10	5	25.00	New Scheme
Paschim Mangaldai		9. Repairing of CM dutta Sub Dong near Binoy Deka house to Baddis Ali paddy field		4	5	10.00	New Scheme
Paschim Mangaldai		10. Diging activity of Sub- Dong Binoy Deka house to Har Nath Das house		4	5	10.00	New Scheme

Paschim Mangaldai		11. Const of Pakka Canal from the House of Nakul Das to CM Dutta Dong		10	5	25.00	New Scheme
Paschim Mangaldai		12. Const of Canal from CM Dutta Dong to Bandikhal paddy field		10	5	25.00	New Scheme
Paschim Mangaldai		13. Repairing of Canal from CM Dutta Dong to Bhulijhari Paddy field		7	5	17.00	New Scheme
Paschim Mangaldai		14. Repairing of Canal from CM Dutta Dong to Hengerajhar Paddy field		10	5	25.00	New Scheme
Paschim Mangaldai		15. Repairing of Canal from CM Dutta Dong to Raja Howly Paddy field		8	5	20.00	New Scheme
Paschim Mangaldai		16. Repairing of Canal from CM Dutta Dong to Khatabari Paddy field		3	5	7.50	New Scheme
Paschim Mangaldai		17. Repairing of Canal from CM Dutta Dong to Bhurhibari Paddy field		3	5	7.50	New Scheme
Paschim Mangaldai		18. Repairing of Canal from CM Dutta main canal to Kaithpara		5	5	12.50	New Scheme
Paschim Mangaldai		19. Repairing of Sub-Canal from CM Dutta main canal to Deben Saikia House		3	5	7.50	New Scheme
Paschim Mangaldai		20. Repairing of Sub-Canal from CM Dutta main canal to Balo Ram Deka House		3	5	7.50	New Scheme
Paschim Mangaldai		21. Repairing of Sub-Canal from Dhiren Deka House to Jatin Rajbongshi house		3	5	7.50	New Scheme
Paschim Mangaldai		22. Repairing of Canal from Farm Culvert to Chamuapara Gusaibari paddy field		10	5	25.00	New Scheme
Paschim Mangaldai		23. Repairing of Canal from Satghariapara village road with culvert		5	5	12.50	New Scheme
Paschim Mangaldai		24. Repairing of Canal from Mairapathar to Daubhui Pathar at Chamuapara Barkhalpar Chuba		10	5	25.00	New Scheme
Paschim Mangaldai		25. Repairing of Sub- Canal from Mairapathar to Sana Pathar at Chamuapara		8	5	20.00	New Scheme
Paschim Mangaldai		26. Micro Irrigation at Saloipara paddy field		7	5	17.50	New Scheme
Paschim Mangaldai		27. Impvt of Dong from Kulsik river to Borangabari paddy field		15	5	37.50	New Scheme
Paschim Mangaldai		28. Dev. Of Dong from Dhowapara Ghura Noukabari to Jhargaon village		10	5	25.00	New Scheme
Paschim Mangaldai		29. Repairing of Dong Balan river to Baghmara paddy field		8	5	20.00	New Scheme
Paschim Mangaldai		30. Dev. Of Dong from Ganakpara Kalita Pathar to Nagaon balan dong		8	5	20.00	New Scheme

Paschim Mangaldai		31. Dev. Of Dong from Kulsik River to Nangaldhua		10	5	25.00	New Scheme
Paschim Mangaldai		32. Dev. Of Dalimapara Bor Dong		10	5	25.00	New Scheme
Paschim Mangaldai		33. Dev. Of Dong from Kulsik river to Borsatra Habi Pathar with Nangaldhua		8	5	20.00	New Scheme
Paschim Mangaldai		34. Dev. Of Dong from Kulsik river to Tamulipara		7	5	17.50	New Scheme
Paschim Mangaldai		35. Impvt of canal of Purana Saktola Nadi and Spillway at Alagihari village near MM road		8	5	20.00	New Scheme
Paschim Mangaldai		36. Const. of canal from Bhebelapara Kulsik canal to Dhuapara via Jhargaon		15	5	37.50	New Scheme
Paschim Mangaldai		37. Impvt. Of canal from Kulsik Bund to Jogipara Pathar via Dalkona		15		37.50	New Scheme
Paschim Mangaldai		38. Repairing of Sub canal from Layan Saharia house to major pathar		10	5	25.00	New Scheme
Paschim Mangaldai		39. Const of CM Dutta main canal to Sitikapara Hari Mandir Barampur paddy field		10	5	25.00	New Scheme
Paschim Mangaldai		40. Const of CM Dutta main canal to Purani Bakara		2	5	5.00	New Scheme
Paschim Mangaldai		41. Const of canal from Gariajhar Gopsar to Pokamura		3	5	7.50	New Scheme
Paschim Mangaldai		42. Const of CM Dutta main canal to BJ Road lecheri pother		5	5	12.50	New Scheme
Paschim Mangaldai		43. Const of CM Dutta main canal to Balibari paddy field		4	5	10.00	New Scheme
Paschim Mangaldai		44. Const of CM Dutta main canal to Potapukhuri paddy field		5	5	12.50	New Scheme
Paschim Mangaldai		45. Const of canal from Dekargaon Kadamartol to Dhupartol paddy field		3	5	7.50	New Scheme
Paschim Mangaldai		46. Const of canal from Dekargaon to Korosartol to Kachamari LPS		4	5	10.00	New Scheme
Paschim Mangaldai		47. Const of canal from BJ road to Deonagaon Rajabandha		4	5	10.00	New Scheme
Paschim Mangaldai		48. Const of canal from Jaberikuchi Shiva Mandir to Kali Ram Saharia paddy field		4	5	10.00	New Scheme
Paschim Mangaldai		49. Const of canal from Jaberikuchi Chowk to Deonagaon paddy field		3	5	7.50	New Scheme

Paschim Mangaldai		50. Const of Canal from Jaberikuchi Chowka to Saiful Ali house paddy field		5	5	12.50	New Scheme
Paschim Mangaldai		51. Const of Canal from CM Dutta main canal to Jaberikuchi paddy field		5	5	12.50	New Scheme
Paschim Mangaldai		52. Const of Canal from CM Dutta main canal to Jborkola chowka via Jagat Boro house paddy field		5	5	12.50	New Scheme
Paschim Mangaldai		53. Const of Canal from CM Dutta main canal to Mornoipother		5	5	12.50	New Scheme
Paschim Mangaldai		54. Const of Canal from Beganadi Structure to near ITC Ramhari paddy field		7	5	17.50	New Scheme
		Total	54	350		873.00	

Annexure VIII. D: Block Wise Strategic Action Plan for Other Schemes in the District under PMKSY

Block	Concerned Ministry/ Department	Component	Activity	Total Number/Capacity (cum)	Command Area/ Irrigation Potential (Ha.)	Period of Implementation	Estimated Cost (in Rs.)	Remarks
Bechimari	SCSP (2012-13)		1. Sokabahi Dong	1	30	5	0.06	On going
Bechimari	NABARD RIDF XVIII 2013-14		2. Junglepara DTW I/S	1/2 Cusec per Point	35	5	28.52	On going
Bechimari	do		3. Nadirmukh DTW I/S (pt-1&2)	2/2 Cusec per Point	70	5	8.963	On going
Bechimari	do		4. Baruajhar DTW I/S (Pt-1)	1/2 Cusec per Point	35	5	2.426	On going
Bechimari	do		5. Baruajhar DTW I/S (Pt-2)	1/2 Cusec per Point	35	5	3.666	On going
Bechimari	do		6. Baruajhar DTW I/S (Pt-3)	1/2 Cusec per Point	35	5	1.72	On going
Bechimari	do		7. Pub Dulipam DTW I/S	1/2 Cusec per Point	35	5	28.52	On going
Bechimari	do		8. No-3 Golondi DTW I/S	1/2 Cusec per Point	35	5	28.52	On going
Dalgaon Sialmari	SCSP (2012-13)		1. CC Lining from ch. 1200m to 2250m eastern Canal of Sukhajani F.I.S.	1	35	5	51.92	

Dalgaon Sialmari	NABARD RIDF XVIII 2013-14		2. Sialmari DTW I/S	1/2 Cusec per Point	35	5	3.36	
Dalgaon Sialmari	do		3. Kachomari DTW I/S (Pt-1)	1/2 Cusec per Point	35	5	27.878	
Dalgaon Sialmari	do		4. Kachomari DTW I/S (Pt-2)	1/2 Cusec per Point	35	5	27.986	
Dalgaon Sialmari	do		5. Kachomari DTW I/S (Pt-3)	1/2 Cusec per Point	35	5	28.364	
Dalgaon Sialmari	do		6. Kowpati L.I.S.	1/1.5 Cusec per Point	20	5	49.374	
Dalgaon Sialmari	do		7.. Kharupetia DTW I/S	1/2 Cusec per Point	35	5	1.95	
Dalgaon Sialmari	do		8. Kalyangaon DTW I/S	3/2 Cusec per Point	105	5	16.776	
Kalaigaon	NABARD RIDF XIX 2013-14		1. Lakhi Bund F.I.S.		350	5	496.74	On going
Kalaigaon	do		2. Bholanath Bund F.I.S.		603	5	906.19	On going
Kalaigaon	do		4. Dallanghat L.I.S.		200	5	320.00	On going
Kalaigaon	do		8. Naptipara DTW I/S		35	5	31.438	On going
Kalaigaon	13th FC 2011-12		1. Kalaigaon L.I.S.		180	5	48.27	On going
Kalaigaon	SCSP 2013-14		1 Rajapukhuri FIS		100	5	64	On going
Kalaigaon			2. Barbagan FIS		80	5	65	On going
Paschim Mangaldai	ABY (2009-10)		1. Rangamati DTW I/S		70	5	59.85	On going
Paschim Mangaldai	SCSP (2011-12)		1. Niz-Dahi DTW I/S		35	5	54.00	On going
Paschim Mangaldai	do		2. Gadhiapara F.I.S.		140	5	182.71	On going
Paschim Mangaldai	do		2. Ramhari DTW I/S		70	5	57.41	On going
Pub Mangaldai	SCSP (2010-11)		1. Ozagaon STW I/S		30	5	69.41	On going
Sipajhar	NABARD RIDF XVIII 2013-14		1. Pithakhowa DTW I/S		35	5	40.70	

Sipajhar	do		2. Kenduguri DTW I/S (Pt-1)	1/2 Cusec per Point	35	5	31.124	
Sipajhar	do		3. Kenduguri DTW I/S (Pt-2)	2/2 Cusec per Point	70	5	28.623	
Sipajhar	do		3. Kenduguri DTW I/S (Pt-3)	3/2 Cusec per Point	105	5	29.78	
Sipajhar	do		4. Niz-Sarabari DTW I/S (Pt-1)	1/2 Cusec per Point	35	5	29.22	
Sipajhar	do		5. Niz-Sarabari DTW I/S (Pt-2)	2/2 Cusec per Point	70	5	34.10	
Sipajhar	do		6. Niz-Sarabari DTW I/S (Pt-3)	3/2 Cusec per Point	105	5	29.053	
Sipajhar	do		7. Pachimchuba DTW I/S (Pt-1&2)	2/2 Cusec per Point	70	5	46.781	
			Total	47	3063		2934.40	