GOVERNMENT OF KARNATAKA

DEPARTMENT OF AGRICULTURE

Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)

DISTRICT IRRIGATION PLAN

BENGALURU RURAL DISTRICT

2016

FOREWORD

The sustainability of the water resource is a sensitive issue which impacts a lot of aspects that has a major impact on many inter-related components. Basically, the project focuses on the water resources that Is currently available in the district and being used for multi purposes. We are mainly focusing on doing a qualitative as well as quantitative analysis of the data collected through various resources in order to implement "PradhanMantriKrishiSinchayaYojanaya (PMKSY)"With the motto of "harkethkopani" and "Per drop more Crop"which enhances the water usage to expand the cultivable area as per the projection to 2020.

In order to get the facts and figures for analysing, we are closely co-ordinating and monitoring with various departments that has the available data that is necessary for projection of the project. The departments involved are :- Minor irrigation, Water source, Ground water Resources, Panchayat Raj Institutions who have immensely helped to get our data in place for analysis. Also adding various departments who have helped us in providing the statistical data which was also a part of core subject : Horticulture , Animal Husbandry, Industries and commerce, KEB (Power Generation) ,BWSSB (Sewage treatment).

We have considered the water availiablity and assessing requirement of water for the present year and 2020 respectively. Some of the aspects are : Domestic purpose, crops, animals, industries, Power generation. We are having more concentraion on preparing district irrigation plan which is one of the components of PMKSY which has the motto "Per drop-more crop", where micro-irrigation is popularized. Implementation of water application devices like drip, sprinkler, rain guns, pivots, rain water harvesting structures to effectively use the physically available sources of water.

As mentioned above, We have a committee formed to successfully implement the changes chaired by District commissioner Followed by vice chairman, CEO (Z.P), Dist.head,Department of agriculture (Member secretary), Horticulture , District head of the dept. (Agriculture marketing, Forest Dept., Water resources Dept., Minor Irrigation Dept., Rural Development &Panchayat Raj Dept., Ground water Dept., Surface & ground water resources Dept., Reprentative from zonal research station., Programme Co-ordinatior (KVK)., Lead bank officer of the district., Two representative farmers., Leading NGO, Representative from input supplying association.

I hereby declare that all the information is carefully reviewed and will provided an assistance to plan and execute the water implementation programme successfully to reap benefits.

Deputy Commissioner

Bangalore Rural.District

CONTENTS

LIST OF TABLES

LIST OF FIGURES

PRADHAN MANTRI KRISHI SINCHAYEE YOJANA (PMKSY)

I. INTRODUCTION:

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

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

Programme architecture of PMKSY will be to adopt a 'decentralized State level planning and projectised execution' structure that will allow States to draw up their own irrigation development plans based on District Irrigation Plan (DIP) and State Irrigation Plan (SIP). It will be operative as convergence platform for all water sector activities including drinking water & sanitation, MGNREGA, application of science & technology etc., through comprehensive plan. State Level Sanctioning Committee (SLSC) chaired by the Chief Secretary of the State with the authority to oversee its implementation and sanction of projects.

The programme will be supervised and monitored by an Inter-Ministerial National Steering Committee (NSC) will be constituted under the Chairmanship of Prime Minister with Union Ministers from concerned Ministries. A National Executive Committee (NEC) constituted under the Chairmanship of Vice Chairman, NITI Aayog to oversee programme implementation, allocation of resources, inter-ministerial coordination, monitoring &performance assessment, addressing administrative issues etc.,

Components and responsible Ministries/ Departments are as follows:

1. AIBP by MoWR, RD &GR: To focus on faster completion of on-going Major and Medium Irrigation including National Projects.
2. PMKSY (Har Khet Ko Pani) by MoWR, RD & GR: Creation of new water sources through Minor Irrigation (both surface and ground water), Repair, restoration and renovation of water bodies; strengthening carrying capacity of traditional water sources, construction rain water harvesting structures (Jal Sanchan); Command area development, strengthening and creation of distribution network from source to the farm. Improvement in water management and distribution system for water bodies to take advantage of available source, which is not apote i to its fullest capacity (deriving benefits from low hanging fruits).

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

4. PMKSY (Per drop more crop) by Dept. of Agriculture & Cooperation, MoA Programme management, preparation of State/District Irrigation Plan, approval of annual action plan, Monitoring etc., Promoting efficient water conveyance and precision water application devices like drips, sprinklers, pivots, rain-guns in the farm (Jal Sinchay). Topping up of input cost particularly under civil construction beyond permissible limit (40%), under MGNREGA for activities like lining inlet, outlet, silt traps distribution systematic.

Construction of micro irrigation structures to supplement source creation activities including tube wells and dug wells (in areas where ground water is available and not under semi critical /critical /over exploited category of development) which are not supported under PMKSY (WR), PMKSY (Watershed) and MGNREGA.

Secondary storage structures at tail end of canal system to store water when available in abundance (rainy season) or from perennial sources like streams for use during dry periods through effective on-farm water management Water lifting devices like diesel/ electric/ solar pumpsets including water carrying pipes.

Extension activities for promotion of scientific moisture conservation and agronomic measures including cropping alignment to maximize use of available water including rainfall and apote i irrigation requirement (Jal samrankshan)

Capacity building, training for encouraging potential use water source through technological, agronomic and management practices including community irrigation awareness campaign on water saving technologies, practices, programmes etc., apote izing of workshops, conferences, publication of booklets, pamphlets, success stories, documentary, advertisements etc. Improved/innovative distribution system like pipe and box outlet system with controlled outlet and other activities of enhancing water use efficiency.

District Irrigation Plans (DIPs):

District Irrigation Plan (DIP) shall be the cornerstone for planning and implementation of PMKSY. DIP will identify the gaps in irrigation infrastructure after taking into consideration the District Agriculture Plans (DAPs) already prepared for Rashtriya Krishi Vikas Yojana (RKVY) vis-à-vis irrigation infrastructure currently available and resources that would be added during XII Plan from other ongoing schemes (both State and Central), like Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGA), Rashtriya Krishi Vikash Yojana (RKVY), Rural Infrastructure Development Fund (RIDF), Member of Parliament Local Area Development (MPLAD) Scheme, Member of Legislative Assembly Local Area Development (MLALAD) Scheme, Local body funds etc. The gaps identified under Strategic Research & Extension Plan (SREP) be used in preparation of DIP. DIPs will present holistic irrigation development perspective of the district outlining medium to long term development plans integrating three components viz., water sources, distribution network and water use applications incorporating all

usage of water like drinking & domestic use, irrigation and industry. Preparation of DIP will be taken up as joint exercise of all participating departments. DIP will form the compendium of all existing and proposed water resource network system in the district.

The DIPs may be prepared at two levels, the block and the district. Keeping in view the convenience of map preparation and data collection, the work would be primarily done at block level. Block wise irrigation plan is to be prepared depending on the available and potential water resources and water requirement for agriculture sector apote izing the activities based on socio-economic and location specific requirement. In case of planning is made based on basin/sub basin level, the comprehensive irrigation plan may cover more than one district. The activities identified in the basin/sub-basin plan can be further segregated into district/block level action plans.

i. Background

Hon'ble President in his address to the joint Session of the Parliament of 16th Lok Sabha indicated that "Each drop of water is precious. Government is committed to giving high priority to water security. It will complete the long pending irrigation projects on priority and launch the 'Pradhan Mantri Krishi Sinchayee Yojana' with the motto of 'Har Khet Ko Paani'.

There is a need for seriously considering all options including linking of rivers, where feasible; for ensuring optimal use of our water resources to prevent the recurrence of floods and drought. By harnessing rain water through 'Jal Sanchay' and 'Jal Sinchan', we will nurture water conservation and ground water recharge. Micro irrigation will be to ensure 'Per drop-More crop'. Out of about 141 ml ha of 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 assured or protective irrigation encourages farmers to invest more in farming technology and inputs leading to productivity enhancement and increased farm income. The over reaching vision of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) will be to ensure access to some means of protective irrigation to all agricultural farms in the country, to produce 'per drop more crop', thus bringing much desired rural prosperity.

ii. Vision

To utilize the available water resources in the district to the maximum extent in an efficient way to meet the basic needs of every living being and enhancing the livelihoods of rural population to the maximum extent thus alleviating poverty in a sustainable way without compromising the interests of future generations.

iii. Objective

Following are the objectives:

A. Enhance the physical access of water on the farm and expand cultivable area under assured irrigation (Har Khet ko pani).

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

C. Improve on-farm water use efficiency to reduce wastage and increase availability both in duration and extent.

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

- ❑ Enhance the physical access of water on the farm and expand cultivable area under assured irrigation (Har Khet ko pani).
- ❑ Integration of water source, distribution and its efficient use, to make best use of water through appropriate technologies and practices.

- ❑ Improve on-farm water use efficiency to reduce wastage and increase availability both in duration and extent.
- ❑ Enhance the adoption of precision-irrigation and other water saving technologies (More crop per drop).
- ❑ Enhance recharge of aquifers and introduce sustainable water conservation practices.
- ❑ Ensure the integrated development of rain fed areas using the watershed approach towards soil and water conservation, regeneration of ground water and arresting runoff.
- ❑ Promote extension activities relating to water harvesting, water management and crop alignment for farmers and grass root level field functionaries.
- ❑ Explore the feasibility of reusing treated municipal wastewater for peri-urban agriculture.

iii. Strategy /approach

- ❑ Creation of new water sources; repair, restoration and renovation of defunct water sources; construction of water harvesting structures, secondary & micro storage, ground water development
- ❑ Developing/augmenting distribution network where irrigation sources (both assured and protective) are available or created;
- ❑ Promotion of scientific moisture conservation and run off control measures to improve ground water recharge so as to create opportunities for farmer to access recharged water through shallow tube/dug wells;
- ❑ Promoting efficient water conveyance and field application devices within the farm *viz.*, underground piping system, Drip & Sprinklers
- ❑ Encouraging community irrigation through registered user groups.

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

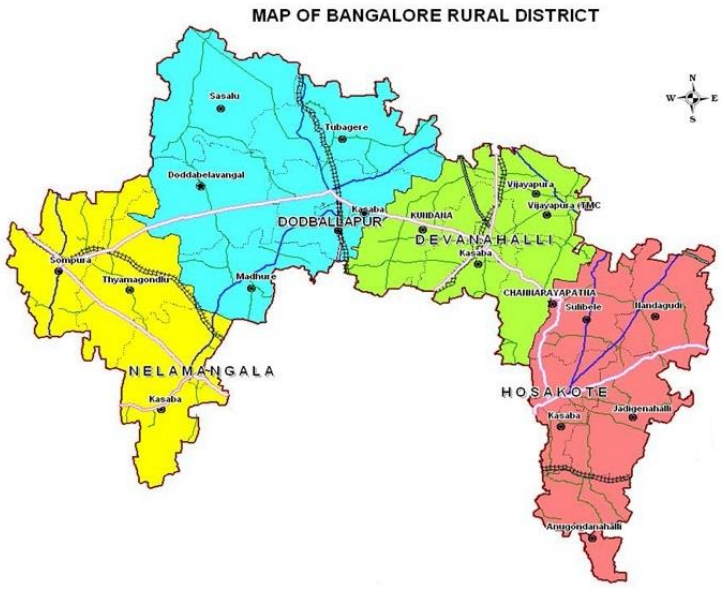
CHAPTER I

GENERAL INFORMATION OF THE DISTRICT

1.1. DISTRICT PROFILE:

Bengaluru Rural district is located in the south-eastern corner of Karnataka State, with geographical area of 229519 ha. It forms about 1.2 % of the total area of the State. The district is located at 13^0 18' 56.5" North latitude and 77^0 30'53.1" East longitude. The rural district is almost surrounded by Bengaluru Urban district except having a small gap in the south-east portion (Fig. 1.1).

Fig. 1.1



The district is on the plateau with an average elevation of 600m to 900m from mean sea-level and has ranges of hills which are actually spurs of the eastern ghats stretching north-wards with peaks. The district comes under the Agro-climatic zone V – Eastern Dry Zone.

The district has 4 taluks, 17 hoblies, 98 gram-panchayats and 1052 villages with a population of 990896.

The total geographical area of the district is 229519 ha of which 100226 ha. is the net sown area and 103446 ha is gross cultivated area which work out to a cropping intensity of 103%. The district has 11322 ha under forest. Although 6 rivers originate from Nandi hills (Chickkaballapur district) which were flowing with full water in Bengaluru Rural district in about 5 decades back, have all been reduced to small seasonal streams in view of urbanization, de-forestation and encroachment.

The soils of the district are mainly red sandy loams which cover an area of 2.19 lakh ha. Doddaballapur and Nelamangala taluks have 100% red sandy loam soils while Devanahalli and Hosakote taluk have 99 % of red sandy loam soils and only 1% clayey lateritic soils.

The average annual rainfall received in the district is 834 mm with 50 rainy days in a bi-modal pattern from April to June and again September to November. This pattern helps the farmers to grow two crops in a year in both kharif and rabi season due to good distribution of rainfall. However, occurrence of drought and dry spells are observed during the cropping season. The mean maximum temperature ranges from 29 to 32^0 C and mean minimum temperature ranges from 18 to 20^0 C.

Bengaluru rural district, although agrarian in nature, due to proximity of Bengaluru city, agriculture and allied sectors has taken second priority. Out of the total population of 9.91 lakhs, nearly 73% of the population is residing in Rural areas. Most common crops grown in the district are finger-millet, maize, field bean, red-gram and groundnut. Important horticulture crops grown are mango, grapes papaya, apote, vegetable crops such tomato, capsicum, cucumber and floriculture (cut flowers). To supplement the income of the rural folks apart from cultivation of Agriculture and Horticulture crops, Animal Husbandry, Poultry and Sericulture are other important activities.

In view of the rapid urbanization and availability of employment in Bengaluru city, the rural population has gradually migrated to city. However, the remaining population in rural areas is taking up allied occupations of horticulture, dairying and sericulture on large scale.

Table 1-1 : District Profile

1.	District Code	29
2.	Latitude and Longitude	13^0 18' 56.5" North latitude and 77^0 30' 53.1" East longitude
3.	Total Number of block	4
4.	Total Number of Grama Panchayat	98
5.	Total No. of Hoblies	17
6.	Total Number of Villages	1052
7.	Total Population	990896
8.	Total Male Population	509172
9.	Total Female Population	481724
10.	Total Child population	107062
11.	Total SC Population	213700
12.	Total ST Population	52903
13.	Geographical Area	229519
14.	Net Sown Area	100226 ha
15.	Gross Cropped Area	103446 ha
16.	Net Irrigated	24995 ha
17.	Area under Forest	11322 ha
18.	Total livestock	411006
19.	Total poultry	4110696

1.2. Demography:

1.2.1: Population:

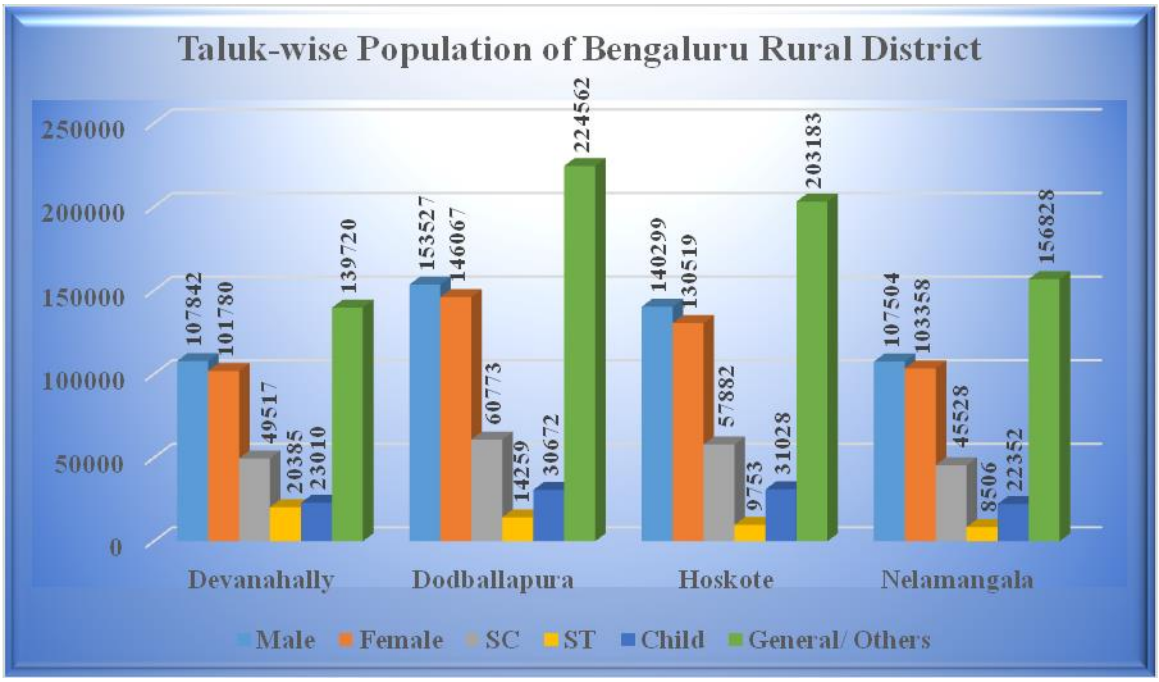
The total population of the district is 990,896. Of this, 509,172 are male and 481,724 are females. SC population is 213,700 (21.6%) the ST population is 52,903 (5.3%). Further, Doddaballapur taluk has the highest population of 299,594 (30.2%), followed by Hosakote with 270,818 (27.3%) and Nelamangala has 210,862 (21.3%). Devanahalli has the lowest population of 209,622 (21.2%). Devanahalli taluk has the highest percentage (23.6%) of SC population, followed by Nelamangala taluk (21.6%), Hosakote (21.4%) and Doddaballapur (20.3%), where as the percentage of ST population is highest in Devanahalli taluk (9.7%) followed by Doddaballapur (4.8%), Nelamangala (4.0%) and Hosakote (3.6%). Details are furnished at Table 1.2, Fig. 1.2 and Appendices 1.2.

Table 1.2 : Taluk wise population of Bengaluru Rural district.

Sl. No	Name of the Block	Population			SC	ST	Child	General/ Others	Total
		Male	Female	Total					
1	Devanahalli	107842	101780	209622	49517	20385	23010	139720	209622
2	Dodballapura	153527	146067	299594	60773	14259	30672	224562	299594
3	Hosakote	140299	130519	270818	57882	9753	31028	203183	270818
4	Nelamangala	107504	103358	210862	45528	8506	22352	156828	210862
Total		**509172**	**481724**	**990896**	**213700**	**52903**	**107062**	**831355**	**990896**

Source: Census report 2011

Fig.1.2.



1.2.2: Rural and Urban Population:

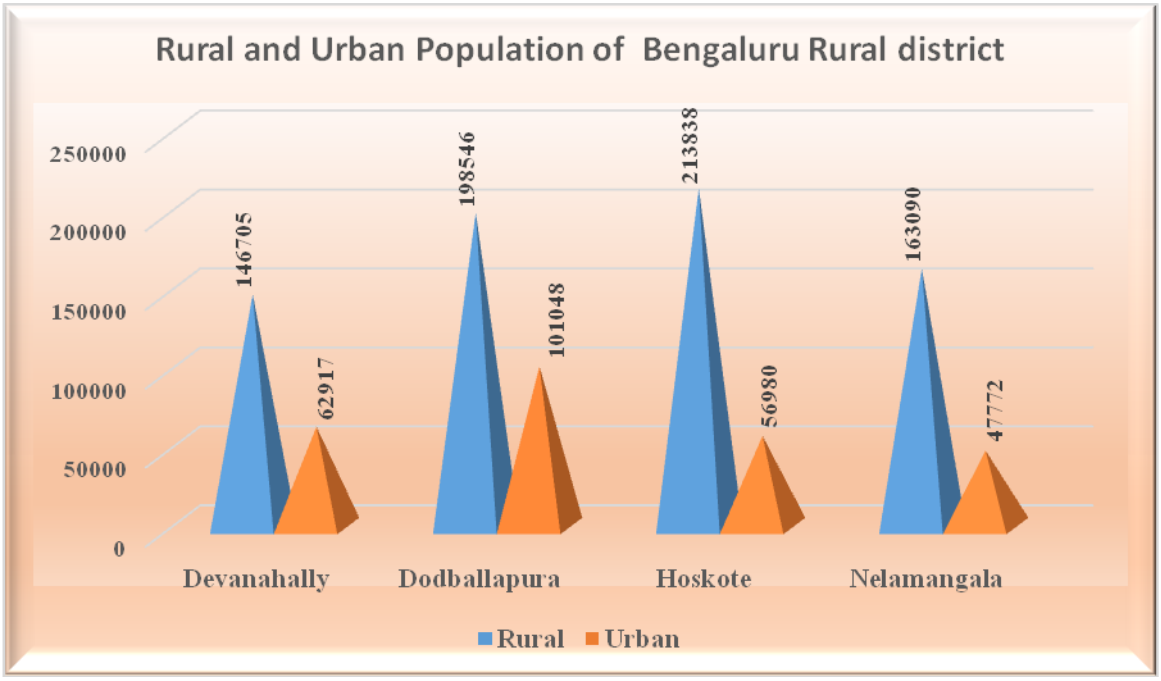
The district is having a Rural population of 722179 (72.9 %) and the Urban population is 268744 (27.1%). Higher rural population is an indication of agrarian nature of the district. Hosakote taluk has the highest rural population of 213838, followed by Doddaballapur (198546), and Nelamangala (163090). Devanahalli taluk has the lowest Rural population (146705). Whereas, Urban population is highest in Doddaballapur taluk (101048), followed by Devanahalli (62917) and Hosakote (56980). Lowest urban population is in Nelamangala (47772). Details are furnished in Table 1.3 and Fig. 1.3.

Table 1.3 : Rural and Urban Population of Bengaluru Rural district

Sl. No.	Block/Taluk	Rural	Urban	Total
1	Devanahalli	146705	62917	209622
2	Dodballapura	198546	101048	299594
3	Hosakote	213838	56980	270818
4	Nelamangala	163090	47772	210862
Total		**722179**	**268744**	**990896**

Source: Census report 2011

Fig.1.3



1.2.3. House Holds in Bengaluru Rural district.

The total number of households in the district is 229279. Rural house holds are 164814 (71.9%) and the Urban households are 64465 (28.1%). Devanahallli taluk has the highest No. of Rural households (46980), followed

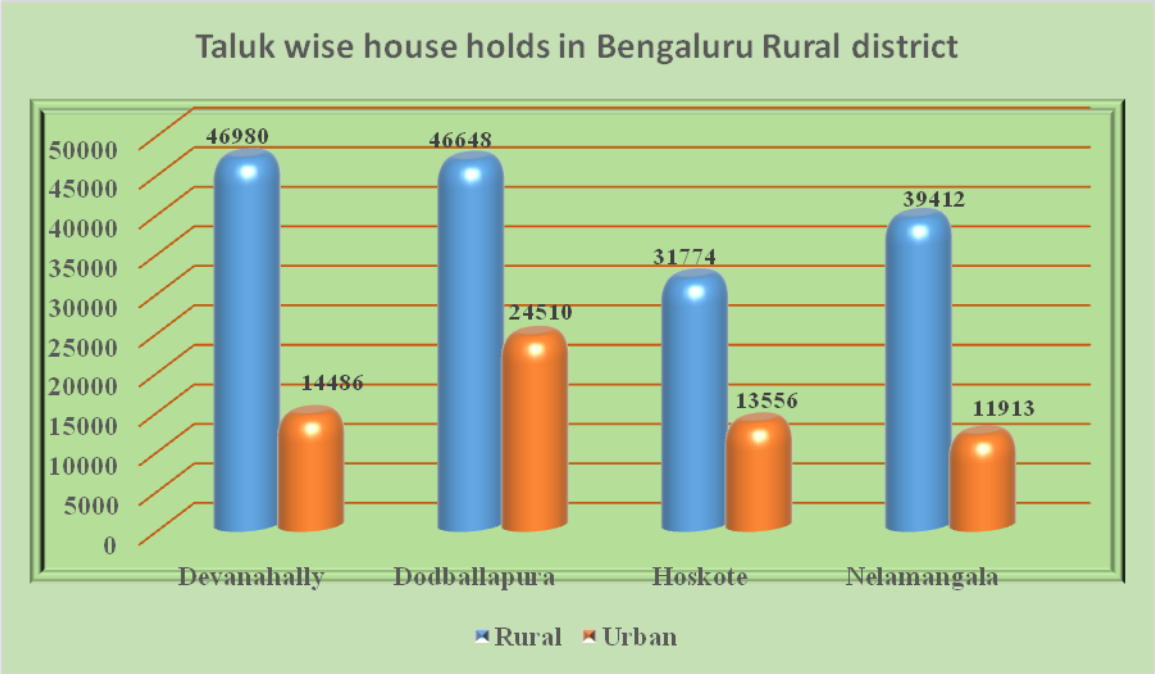
by Doddabalapura (46648) and Nelamangala (39412). Hosakote taluk has the lowest no. of rural households (31774). Whereas, Urban households are highest in Doddaballapur taluk (24510), followed by Devanahalli taluk (14486) and Hosakote (13556). Lowest Urban households are in Nelamangala taluk (11913). Details are furnished at Table 1.4 and Fig. 1.4.

Table.1.4 Taluk wise households in Bengaluru Rural district

Sl.No.	Taluk	Rural	Urban	Total
1	Devanahalli	46980	14486	61466
2	Dodballapura	46648	24510	71158
3	Hosakote	31774	13556	45330
4	Nelamangala	39412	11913	51325
Total		**164814**	**64465**	**229279**

Source: Census report 2011

Fig. 1.4



1.3. Biomass and Livestock:

1.3.1: Large animals:

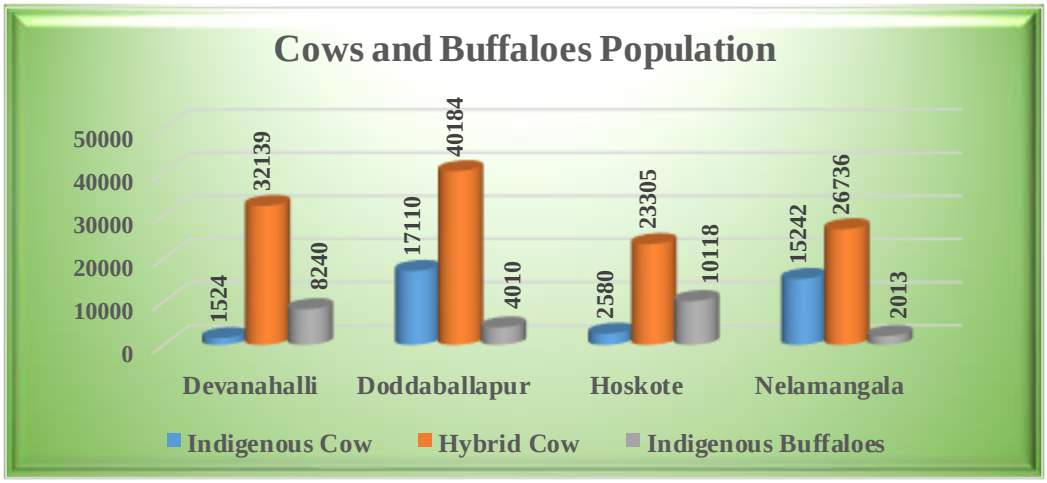
The total large animals in the district are 199344. Total Cow & buffaloes population in the district is 158820 (79.7%) and 24381 (12.2%), respectively. Other milch animals and draft animals account for the remaining 8.1%. Doddaballapur taluk has the highest cattle and buffaloes population of 61304 (33.5 %), followed by Nelamangala with 43991 (24.0%) and Devanahalli 41903 (22.9%). Hosakote taluk has the lowest cattle and buffaloe population of 27956 (13.7%) in the district. Regarding draft animals, Doddaballapur has the highest No. (5413), followed by Nelamangala (3479) and Hosakote (2021). Devanahalli taluk has the lowest draft animals. Details of large animals are furnished in Table 1.5 and Fig. 1.5.

Table. 1.5 : Large animal population

Sl. No	Taluk	Large Animals				Any Other Milch Meat Animal	Draft Animal (Buffalo/ Yak/ Bulls/ Any Other)	Total Large animals
		Indigenous Cow	Hybrid Cow	Total Cow	Indigenous Buffaloes			
1	Devanahalli	1524	32139	33663	8240	115	1263	43281
2	Doddaballapur	17110	40184	57294	4010	611	5413	67328
3	Hosakote	2580	23305	25885	10118	105	2021	38129
4	Nelamangala	15242	26736	41978	2013	3136	3479	50606
Total		**36456**	**122364**	**158820**	**24381**	**3967**	**12176**	**199344**

Source: District at a Glance

Fig 1.5



1.3.2: Small Animals

The district has totally, 211662 Small animals viz., Sheep, Goat and Pigs and 4110696 poultry birds. Of the total Small animals, Sheep account for 59.0%, Goats account for 38.1 % and Pigs account for 2.9%. Doddaballapur taluk has the highest Small animals 74060 (35.0 %), followed by Devenahalli with 55858 (26.4%) and Hosakote with 49456 (23.4%). Nelamangala has the lowest Small animal population of 32288 (15.3%). Regarding poultry, Devenahalli taluk has the highest poultry 1380757 (33.4 %), followed by Hosakote with 1325981 (32.3%) and Doddaballapur with 1019084 (24.8%). Nelamangala has the lowest poultry population of 384874 (9.5%). Taluka wise details are furnished at Table No.1.6 and Fig. 1.6.

Table :1.6 Small animals

Sl. No.	Taluk	Poultry	Small Animals				
			Ducks	Pigs	Goats	Sheep	Total
1	Devanahalli	1380757	0	774	16173	38911	55858
2	Doddaballapur	1019084	0	275	29601	44184	74060
3	Hosakote	1325981	0	4059	16612	28785	49456
4	Nelamangala	384874	0	944	18354	12990	32288
Total		**4110696**	**0**	**6052**	**80740**	**124870**	**211662**

Source: District at a Glance

Fig 1.6

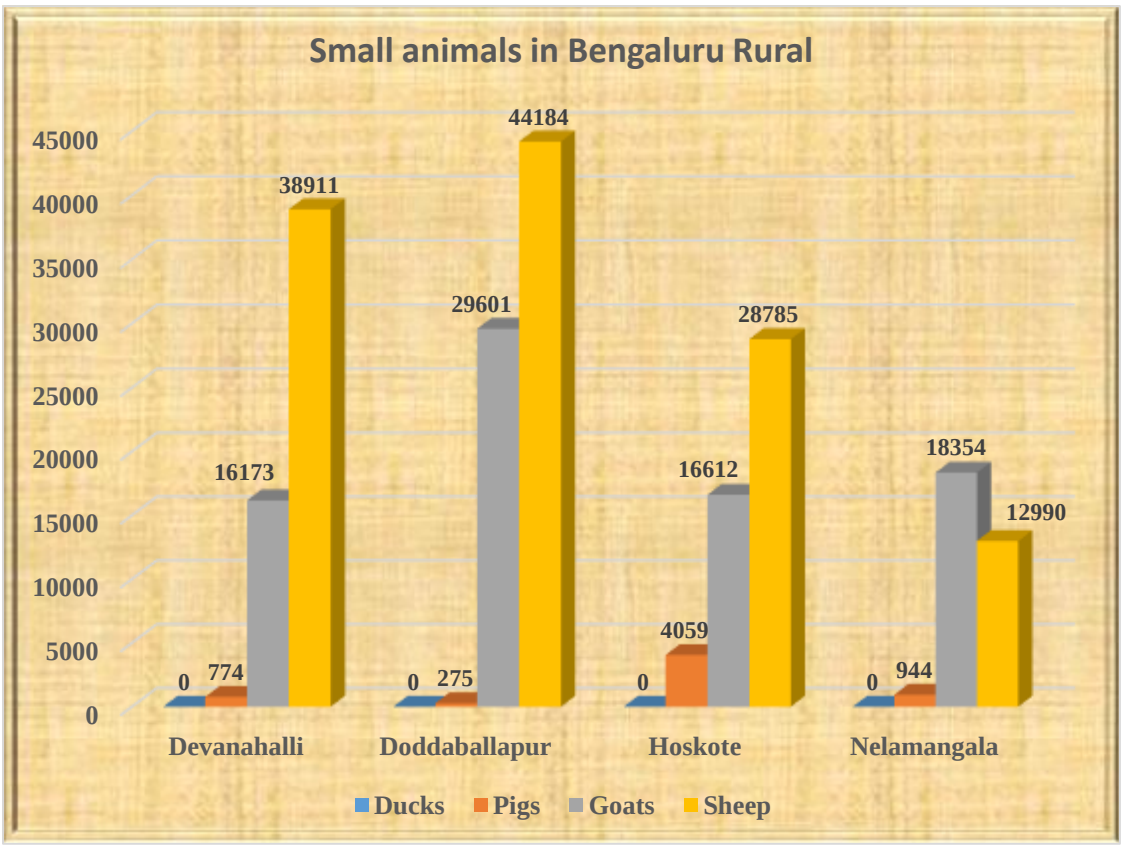
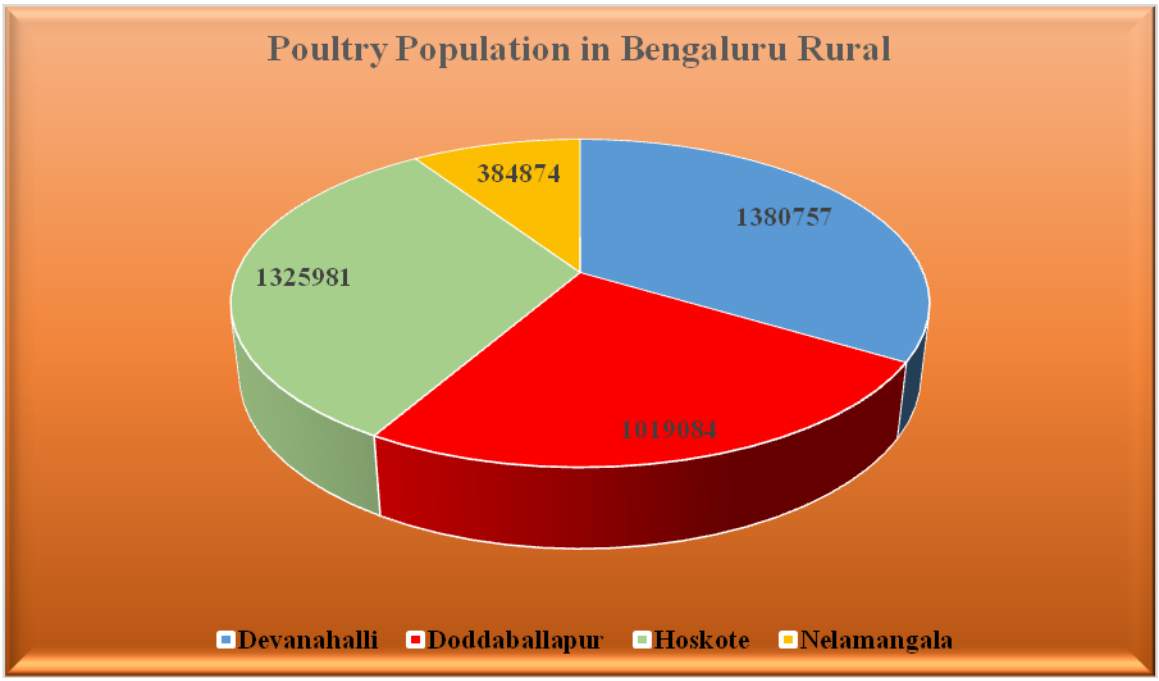


Fig 1.7



1.4 Agro-Ecology, Climate, Hydrology and Topography:

1.4.1 Agro-ecology

All the four taluks of Bengaluru Rural district are located in Eastern Dry Zone (Zone V) of Karnataka. The zone has the characteristic of low rainfall pattern with more uniform and bi-modal distribution. The distribution of different soil types, Alfisols is red sandy loam in major areas and clay lateritic soils are also noticed in patches.

1.4.2: Climate

The average annual rainfall received in the district is 834 mm with 50 rainy days in a bi-modal pattern from April to June and again September to November. This pattern helps the farmers to grow two crops in a year in both kharif and rabi season due to good distribution of rainfall. However, occurrence

of drought and dry spells are observed during the cropping season. The mean maximum temperature ranges from 29 to 32^0 C and mean minimum temperature ranges from 18 to 20^0 C. However, in the recent years the maximum temperatures have reached up to 38^0 C in summer months and reached below 12^0 C in winter months. The humidity ranges from 50 to 75% (Table 1.7).

Table 1.7 Data on Weather of Bengaluru Rural district

Sl. No.	Taluk	Rainfall		Temperature		Humidity (%)	
		No. of rainy days	Average rainfall (mm)	Min. ^{0}C	Max. ^{0}C	Min	Max
1	Devanahalli	50	792	20	29	75	60
2	Doddaballapur	50	796	20	31	50	58
3	Hosakote	49	829	18	32	55	75
4	Nelamangala	53	920	20	29	75	60
Total/Mean		**50**	**834**	**19.5**	**30**	**64**	**63**

Source: KSNDMC., Bengaluru

1.4.3 Hydrology

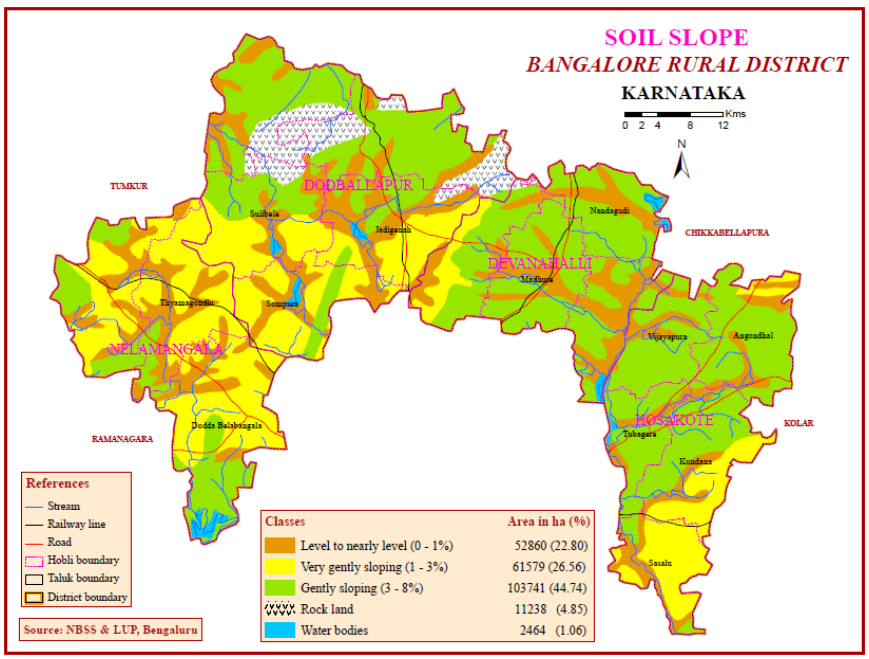
Geology of the Bangalore rural district is broadly described under two groups (i) the dominating Archaean crystalline formation comprising peninsular gneissic complex with a small patch of horn blend schist in the northern part and intrusive closepet granite all along the western part of the district (ii) smaller stretches of unconsolidated sediments. The granite gneisses are mainly of migmatitic type, highly banded in composition from granite to diorite. The ground water occurs in the open spaces of weathered fractured gneisses and granites. In these rocks the water bearing and yielding properties are primarily due to weathering and fracturing. In the weathered zone, ground water occurs under water table conditions and in the fractured and jointed formations it occurs under semiconfined conditions. In Laterite ground water occurs under phreatic condition. Alluvium along the river courses, though limited in

thickness and aerial extent possess substantial ground water potential. The seasonal water level fluctuation for the year 2006 in 31 national hydrograph network stations were in the range of -0.10 to 2.14m.

1.4.4 : Topography:

The lands of the district can be broadly divided into three soil slope classes i) level to nearly level lands (0-1% slope), ii) very gently sloping lands (1-3% slope) and iii) gently sloping lands (3-8% slopes). Lands of the district are mainly gently sloping in Devanahalli, Doddaballapur, Hosakote taluks and in parts of Nelamangala taluk. The lands with very gently sloping occur mainly in Nelamangala, Doddaballapur taluks and parts of Hosakote taluk, whereas level to nearly level lands in valleys are mainly found in all the taluks mainly in valleys. The lands of the district that are gently sloping cover an area of 103,741 ha (44.74%) followed by very gently sloping lands which are spread over an area of 61,579 ha (26.56 %) and level to nearly level lands in the valleys occur in an area of 52860 ha (22.80%). Rockland in the district occurs over an area of 11,238 ha (4.85 %) (Fig. 1.8).

Fig. 1.8



1.5 : Soil Profile

The soils of Bengaluru Rural district are mainly of the soil orders Alfisols, Inceptisols, Entisols and in a small area Vertisols. Alfisols occur in an area of 139,460.50 ha (60.14 %) in Nelamangala, Devanahalli, Hosakote and parts of Doddaballapur taluks; Inceptisols are in an area of 60,762.90 ha (26.20%), while Entisols occur in an area of 18,817.70 ha (8.12 %) mainly in Hosakote, Devanahalli and Nelamangala taluks. Vertisols are found in a small area of 690.90 ha (0.30 %) in Doddaballapur taluk (Table 1.8, 1.9, Fig. 1.9, 1.10).

The soils of the soil order Alfisols are deep to very deep, at places moderately deep, well drained to somewhat excessively drained, clayey and at places gravelly clay, with surface crusting, occurring on very gently sloping to undulating lands and at places of undulating lands with moderate erosion. Soils of the soil order Inceptisols are deep to very deep and at places shallow, moderately well drained to well drained, gravelly clay to clay, occurring on undulating interfluves and ridges with moderate erosion. Soils of the soil order Entisols are deep at places shallow, well drained to somewhat excessively drained and at places moderately well drained, clayey, gravelly in the sub-surface at places, occurring on gently sloping to rolling lands with moderate erosion, while soils of the soil order Vertisols are very deep, moderately well drained, calcareous clayey soils in valleys with moderate erosion.

Table 1.8 Soils of Bengaluru Rural district

Sl. No.	Soil	Area (Ha)	Area %	Characteristics
1	Alfisols	139460.50	60.14	Deep to very deep, at places moderately deep, well drained to somewhat excessively drained, clayey and at places gravelly clay, with surface crusting, occurring on very gently sloping to undulating lands and at places of undulating lands with moderate erosion.
2	Inceptisols	60762.90	26.20	Deep to very deep and at places shallow, moderately well drained to well drained, gravelly clay to clay, occurring on undulating interfluves and ridges with moderate erosion
3	Entisols	18817.70	8.12	Deep at places shallow, well drained to somewhat excessively drained and at places moderately well drained, clayey, gravelly in the sub-surface at places, occurring on gently sloping to rolling lands with moderate erosion
4	Vertisols	690.90	0.30	Very deep, moderately well drained, calcareous clayey soils in valleys with moderate erosion.
Rockland		**9686**	**4.18**	
Water bodies		**2464**	**1.06**	
Total		**231882**	**100.00**	

Fig. 1.9

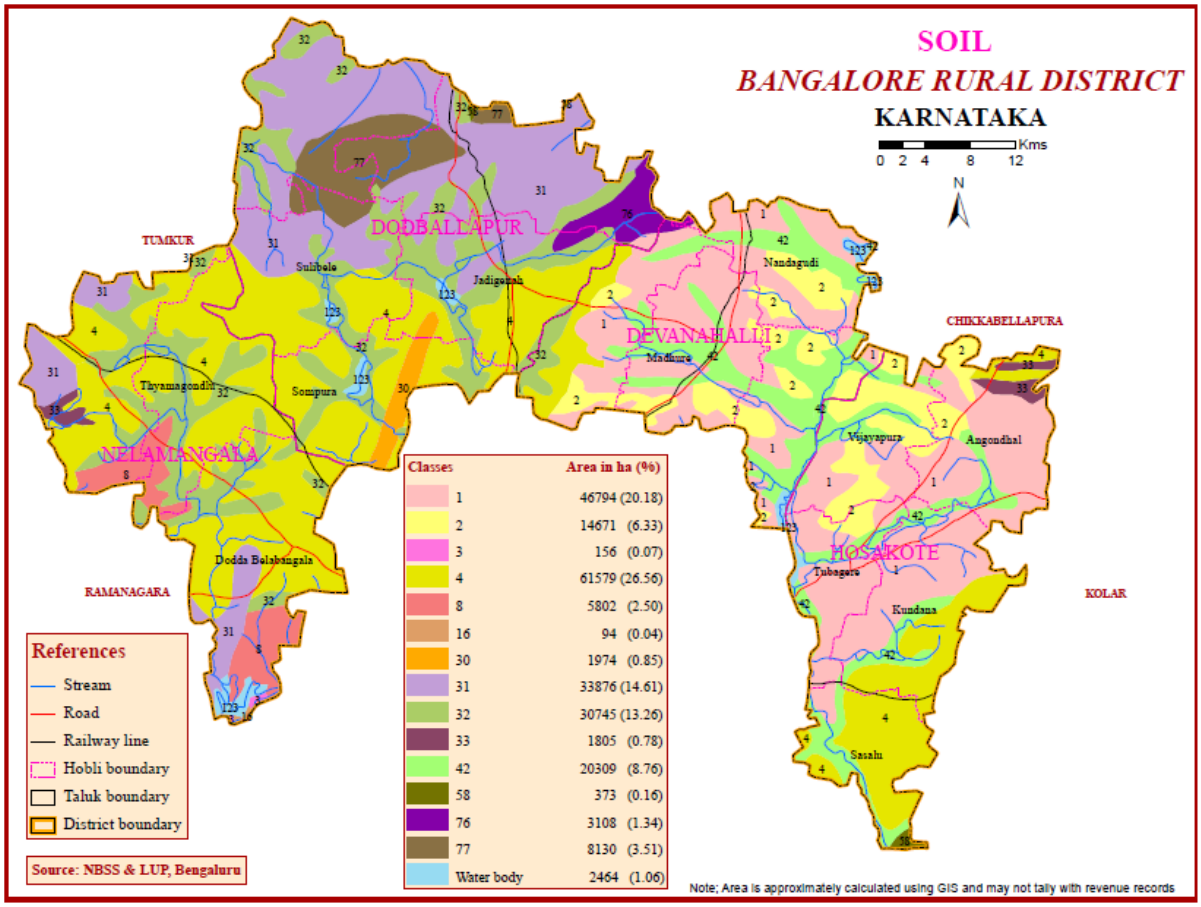

SOIL
BANGALORE RURAL DISTRICT
KARNATAKA
Kms
0 2 4 8 12
N
DODBALLAPUR
DEVANAHALLI
NELAMANGALA
HOSAKOTE
TUMKUR
CHIKKABELLAPURA
RAMANAGARA
KOLAR
Sulibele
Jadigenahalli
Nandagudi
Madhure
Tyamagondlu
Sompura
Vijayapura
Angondhal
Dodda Belabangala
Tubagere
Kundana
Sasalu
References
Stream
Road
Railway line
Hobli boundary
Taluk boundary
District boundary
Source: NBSS & LUP, Bengaluru
Classes
Area in ha (%)
1 46794 (20.18)
2 14671 (6.33)
3 156 (0.07)
4 61579 (26.56)
8 5802 (2.50)
16 94 (0.04)
30 1974 (0.85)
31 33876 (14.61)
32 30745 (13.26)
33 1805 (0.78)
42 20309 (8.76)
58 373 (0.16)
76 3108 (1.34)
77 8130 (3.51)
Water body 2464 (1.06)
Note; Area is approximately calculated using GIS and may not tally with revenue records

Table 1.9 SOIL LEGEND – BENGALURU RURAL DISTRICT

Map sym-bol	Major soils description	Classification		Area	
		Major soils	Inclusions	Ha	%
SOILS OF SOUTH DECCAN PLATEAU					
1	Very deep, somewhat excessively drained, clayey soils with surface crusting on very gently sloping colluvial plains, with moderate erosion; Associated with Moderately deep, somewhat excessively drained, clayey soils with surface crusting	Fine Kaolinitic, Typic Kandiustalfs Fine, kaolinitic, Rhodic Kandiustalfs	Fine, kaolinitic, Kanhaplic Haplustalfs	46794	20.18
2	Very deep, somewhat excessively drained, clayey soils with crust of laterite on gently sloping laterite mounds, with moderate erosion; Associated with Deep, somewhat excessively drained, clayey soils, severely eroded.	Clayey-skeletal, kaolinitic, Rhodic Kandiustalfs Fine, kaolinitic, Typic Kandiustalfs	Fine, kaolinitic, Rhodic Kandiustalfs	14671	6.33

Map symbol	Major soils description	Major soils	Inclusions	Area	
3	Deep, somewhat excessively drained, gravelly clay soils on rolling lands, with moderate erosion; Associated with Deep, somewhat excessively drained, clayey soils	Clayey-skeletal, mixed, Kandic Paleustalfs Fine, mixed, Kandic Paleustalfs	Clayey-skeletal, mixed, Typic Ustropepts	156	0.07
4	Deep, somewhat excessively drained, gravelly clay soils on gently sloping interfluves, with moderate erosion; Deep, somewhat excessively drained, clayey soils	Fine, kaolinitic, Kandic Paleustalfs Fine, kaolinitic, rhodic kandiustalfs	Loamy-skeletal, mixed, Typic Ustropepts Fine, mixed, Typic Rhodustalfs	61579	26.56

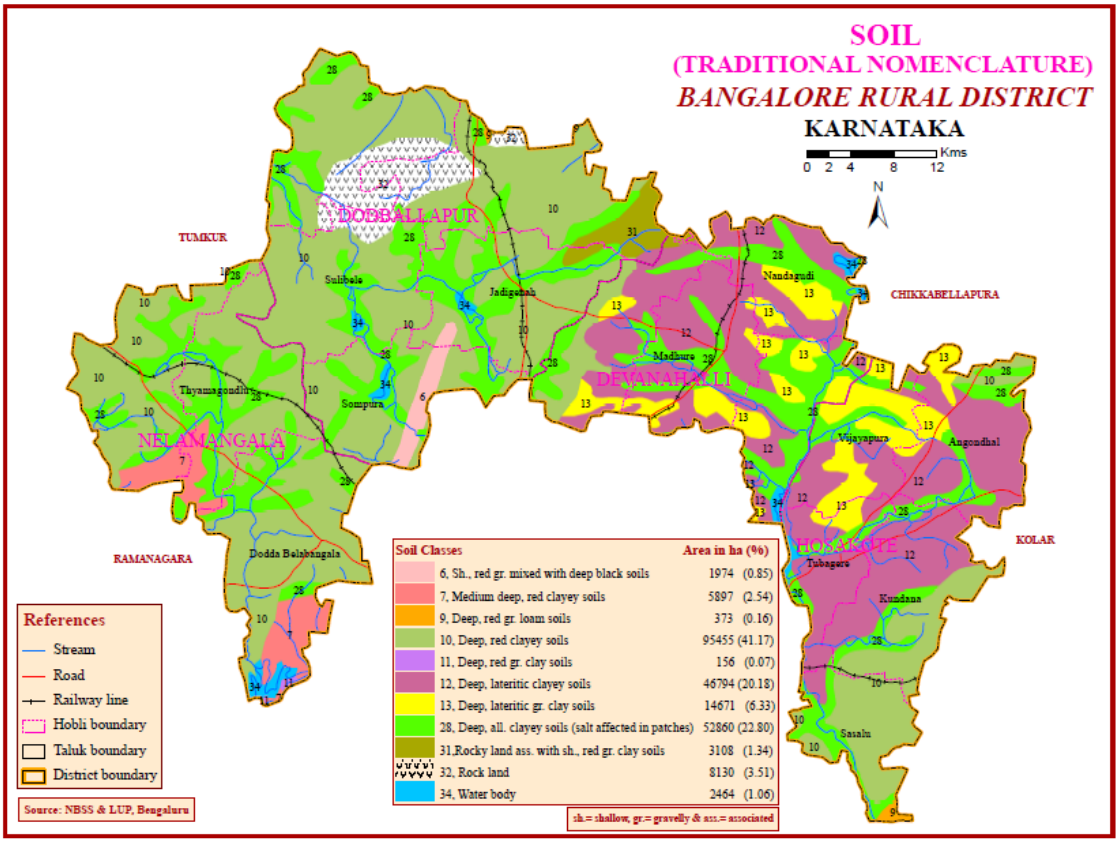
Map symbol	Major soils description	Major soils	Inclusions	Area	
8	Moderately deep, well-drained, clayey soils on undulating interfluves, with moderate erosion; Moderately deep, well-drained, gravelly clay soils	Fine, mixed, Rhodic Paleustalfs Clayey-skeletal, mixed, Ultic Haplustalfs	Fine, mixed, Typic Ustropepts Fine, mixed, Typic Rhodustalfs	5802	2.5
16	Moderately deep, well-drained, clayey soils with medium AWC on undulating interfluves, with moderate erosion; Moderately deep, somewhat excessively drained, gravelly clay soils, strongly gravelly in the sub-soil	Fine, mixed, Typic Haplustalfss Clayey-skeletal, mixed, TypicRhodustalfs	Fine, mixed, Typic Ustropepts Fine, mixed, Rhodic Paleustalfs	94	0.04

Map symbol	Major soils description	Major soils	Inclusions	Area	
30	Shallow, well-drained, gravelly clay soils with very low AWC, strongly gravelly in the sub-soil on undulating interfluves; Associated with Very deep, moderately well-drained, calcareous, cracking clay soils, moderately eroded	Clayey-skeletal, mixed, Typic Ustropepts Very-fine, montmorillonitic, Typic Pellusterts	Fine, mixed, Typic Haplustalfs Fine montmorillonitic, Vertic Ustropepts	1974	0.85
31	Deep, well-drained, clayey soils on undulating interfluves, with moderate erosion; Associated with Deep, well-drained, clayey soils	Fine, mixed, Typic Ustropepts Fine, mixed, Typic Rhodustalfs	Fine, mixed, Rhodic Paleustalfs	33876	14.61

Map symbol	Major soils description	Major soils	Inclusions	Area	
32	Very deep, moderately well-drained, clayey soils of valleys, with problems of drainage and slight salinity in patches; Associated with Moderately deep, well-drained, loamy soils	Fine, mixed, Typic Ustropepts Clayey, Over loamy, mixed Typic Ustifluvents	Fine, mixed, Aquic Ustropets	30745	13.26
33	Deep, moderately well-drained, clayey soils of valleys, with problems of drainage and slight salinity in patches; Deep, imperfectly drained, clayey over sandy soils	Fine, mixed, Typic Ustropetps Fine mixed, Typic Ustifluvents	Fine, mixed, Aeric Tropaquepts	1805	0.78
42	Deep, moderately well-drained, clayey soils of valleys, with shallow water table; Associated with	Fine, mixed, Aquic Ustropepts	Fine mixed, Fluventic Ustropepts	20309	8.76

Map symbol	Major soils description	Major soils	Inclusions	Area	
	Deep, imperfectly drained, clayey soils with shallow water table	Fine, mixed, Typic Ustifluvents			
58	Very deep, well-drained, gravelly, loam soils, strongly gravelly in the sob soil on rolling lands, with moderate erosion; Associated with Shallow, somewhat excessively drained, gravelly clay soils with very low AWC	Loamy-skeletal, mixed, Typic Ustorthents Clayey-skeletal, mixed, Lithic Ustorthents	Clayey-skeletal, mixed, Typic Ustsropepts Fine, mixed, Typic Ustropepts	373	0.16
76	Rock outcrops; Associated with Shallow, somewhat excessively drained, gravelly clay soils on ridges, severely eroded	Rock land Clayey-skeletal, mixed, Lithic Ustropepts	Clayey-skeletal, mixed, Typic Ustropepts	3108	1.34
77	Rockoutcrops	Rock land		8130	3.51
123		Water bodies		2464	1.06
	TOTAL			**231882**	**100**

Fig.1.10.



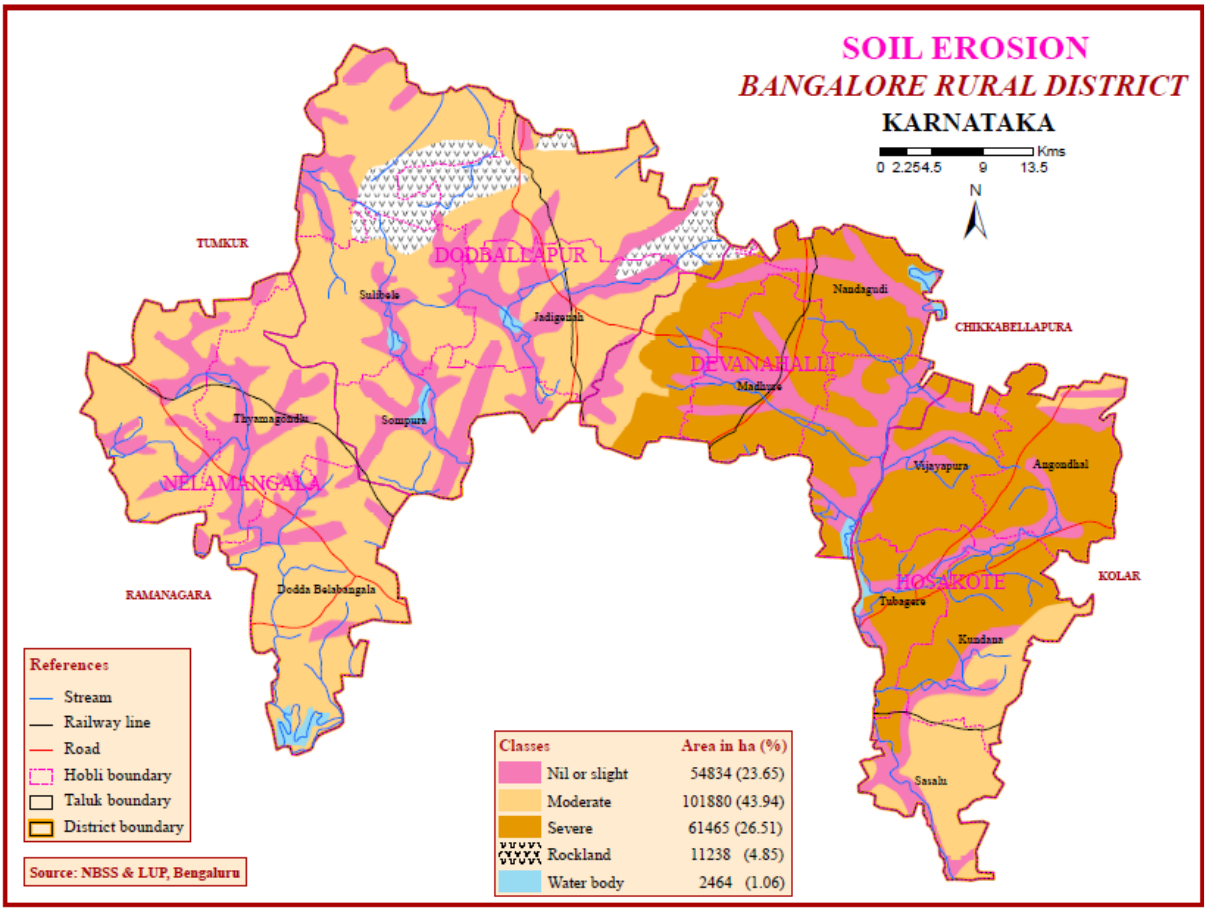
1.6 Soil Erosion

Soil erosion which occurs at varying rates is a widespread threat to sustainable resource management. Major causes of soil erosion are cultivation without proper soil and water conservation measures in area not suitable for crops, denuded areas without vegetation, cultivated fallow on moderate slopes, degraded forests/pastures on steep slopes and poorly managed forest cover. Appropriate soil conservation and land management techniques for the different soil erosion classes were suggested. It is generally associated with agricultural practices, leading to decline in soil fertility, bringing in a series of negative environmental impacts and has become a threat to sustainable agricultural production and water quality.

Soil erosion is one form of soil degradation. Soil erosion is a naturally occurring process on all land. The agents of soil erosion are water and wind, each contributing a significant amount of soil loss each year. Soil erosion may be a slow process that continues relatively unnoticed, or it may occur at an alarming rate causing serious loss of top soil. The loss of soil from farmland may be reflected in reduced crop production potential, lower surface water quality and damaged drainage networks.

The soils of Bengaluru Rural district are classified mainly under non or slight erosion, moderately eroded and severely eroded classes. The soils of the district are mainly moderate in erosion occurring over an area of 101,880 ha (43.94 %) mainly in Nelamangala, Doddaballapur and Hosakote taluks and in a small patch in Devanahalli taluk. The soils that are severe in erosion are in an area of 61,465 ha (26.51%) mainly occurring in Devanahalli and Hosakote while soils with non or slight erosion cover an area of 54,834 ha (23.65%) occur in valleys and lower reaches in all taluks. Surface runoff is high in 70.45% area of the district that is moderately eroded to severely eroded, resulting in loss of water, soil fertility and top soil. Necessary water conservation measures are needed to be taken up to conserve water and soil in the district.

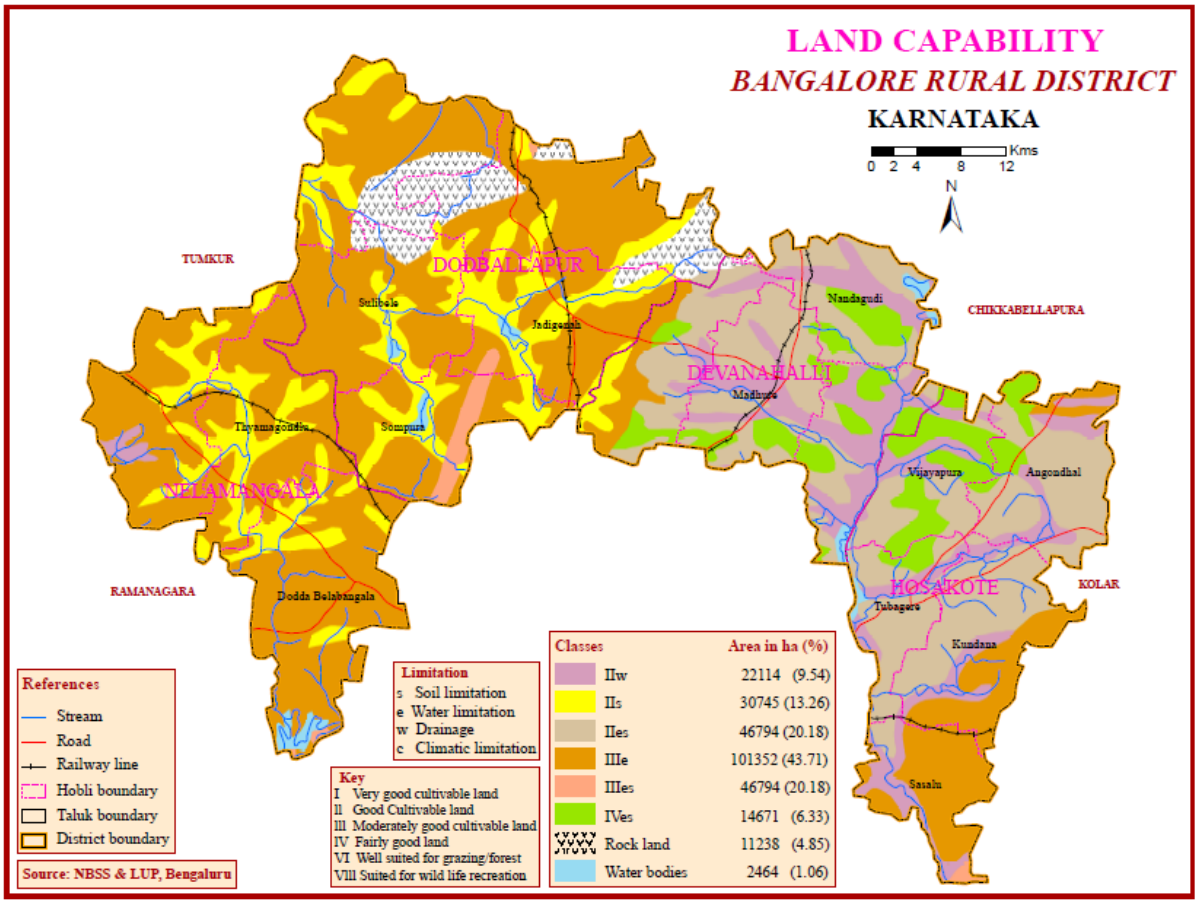
Fig . 1.11



Land Capability classes:

The lands of the district are classified under the land capability classes II, III, and IV. Lands over an area of 103,856 ha (44.79 %) of the district are moderately good cultivable lands (class III) with moderate limitations of erosion and soil mainly occurring in mainly in Nelamangala and Doddaballapur taluks and in parts of Devanahalli and Hosakote taluks. Good cultivable lands (class II) are in an area of 99,653 ha (42.97 %) with limitation of soil and water found mainly in Hosakote and Devanahalli taluks and parts of Doddaballapur and Nelamangala taluk. Fairly good lands (class IV) are mainly in Hosakote and Devanahalli taluks over an area of 14,671 ha (6.33 %) with limitation of erosion and soil. Rocklands occur mainly in Doddaballapur taluk over an extent of 11,238 ha (6.33 %) (Fig. 1.12).

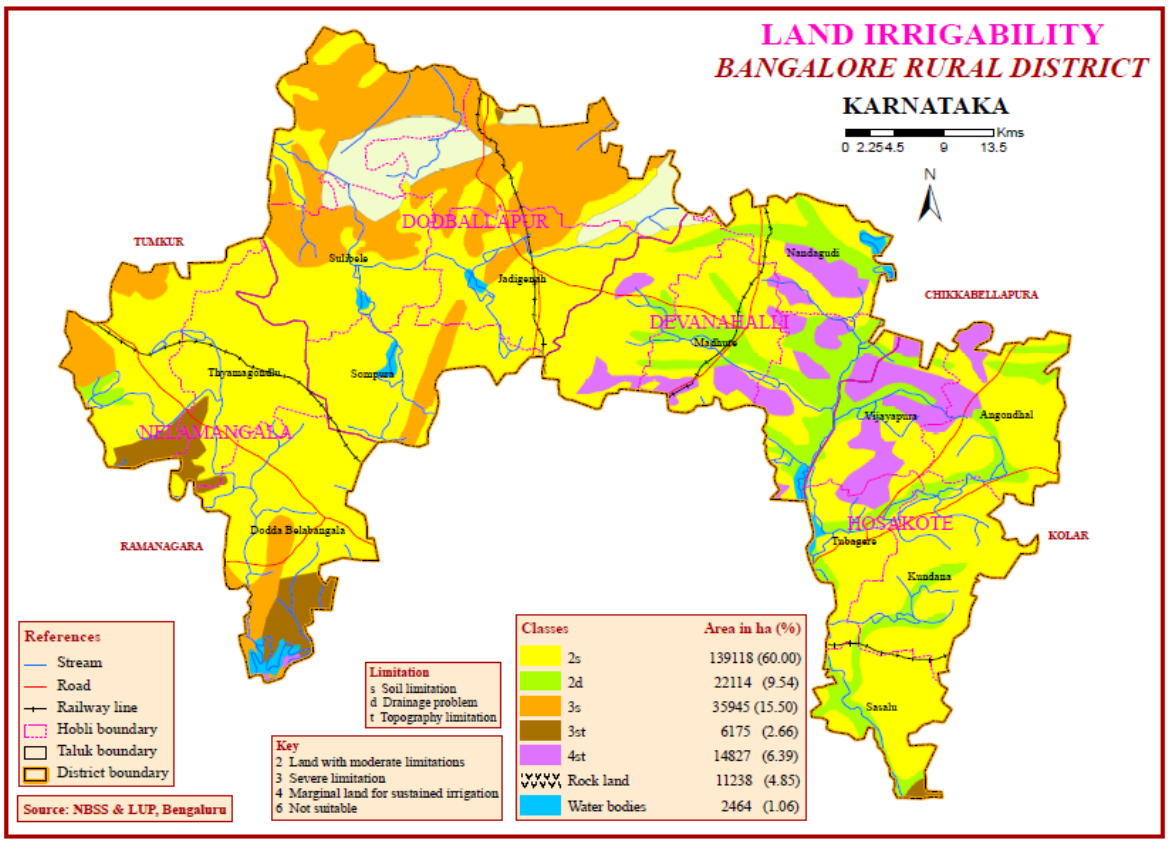
Fig. 1.12.



Land Irrigability classes:

The Land Irrigability classes in Bengaluru Rural district are mainly Class 2, 3 and 4. Lands that are good cultivable lands for sustained use under irrigation (class 2) with limitations of soil and drainage cover an area of 161,232 ha (70.44 %) occurring mainly in Nelamangala, Devanahalli, Hosakote and in a smaller area in Doddaballpur taluk. Lands that are moderately good cultivable lands for sustained use under irrigation with limitation of soil and water occur mainly in Doddaballapur and parts of Nelamangala taluks over an area 42,120 ha (18.16 %) and lands that are fairly good cultivable lands for sustained use under irrigation with limitations of erosion and soil (class 4) occur in an area of 14827 ha (6.39 %) in Devanahalli and Hosakote taluks (Fig. 1.13).

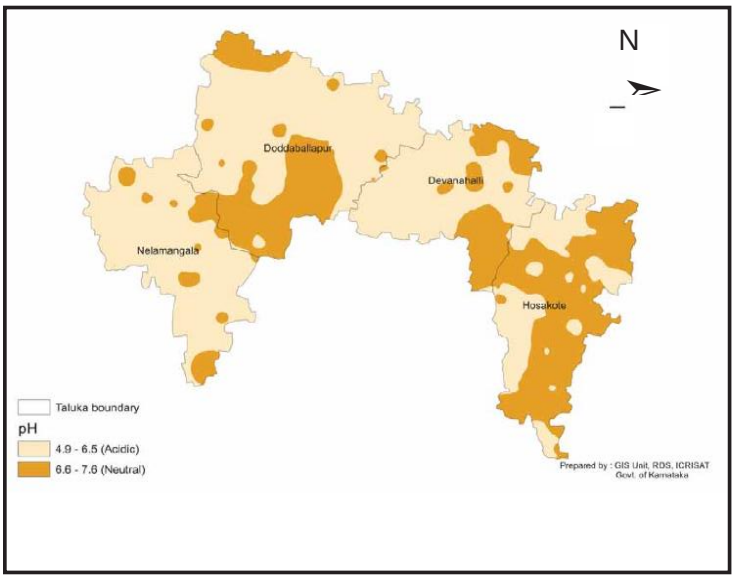
Fig 1.13



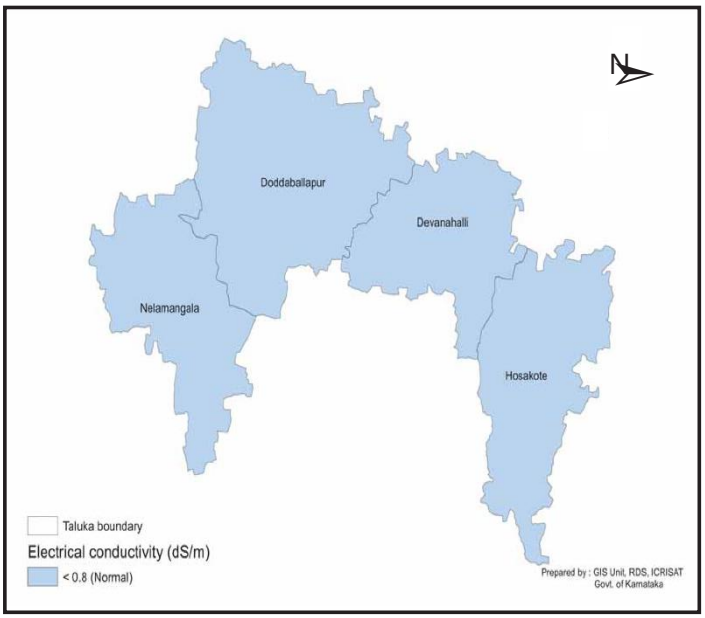
Soil Fertility

The soils of the district are mainly red sandy loam soils which cover an area of 2.19 lakh ha. Doddaballapur and Nelamangala taluks have 100% red sandy loam soils, while Devanahalli and Hosakote taluks have 99 % of red sandy loam soils and only 1 % clayey lateritic soils. The soil pH is acidic (pH 4.5 to 6.5) in major parts of the district i.e., Nelamangala, Doddaballapur and Devanahalli taluks, whereas in Hosakote taluk, major area and parts of Doddaballapur taluk, the soil pH is neutral (pH 6.5 to 7.6). The Electrical conductivity is Normal (0.8 dS/m). Except in small area in Devanahalli taluk, the major portion of soils of the district are deficient in Organic Carbon content (<0.5). The available Phosphorus (>5 ppm) and available Potassium (>50) in the soils of the district are sufficient, whereas, the soils of the district are deficient in available Sulphur (< 10), available Zinc (<0.75) and Boron (<0.58) (Fig. 1.14).

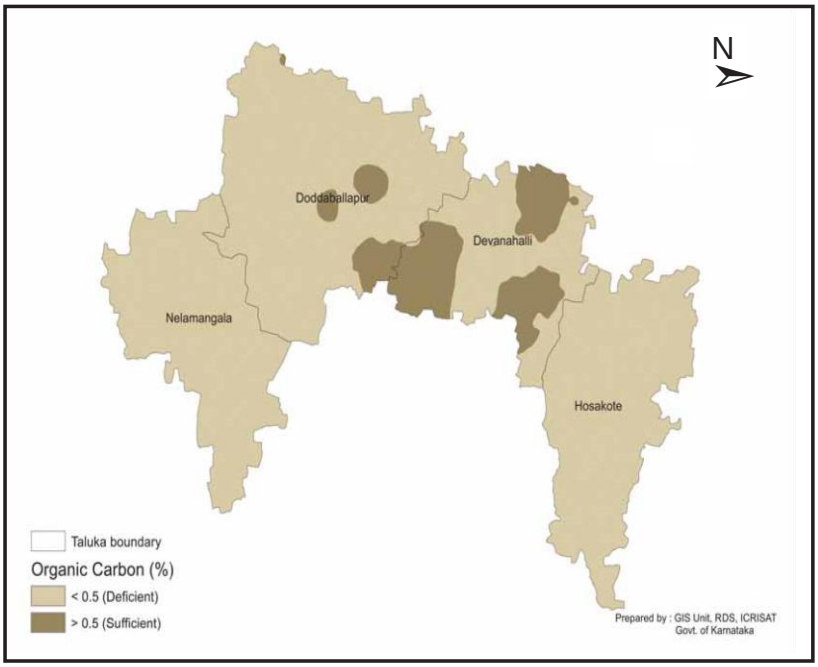
Fig. 1.14



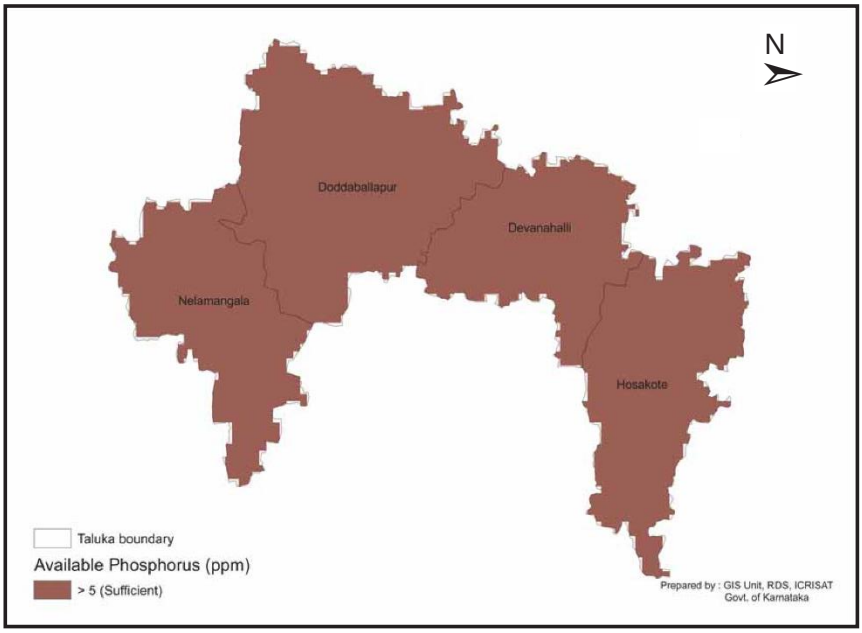
pH status in Bengaluru Rural district



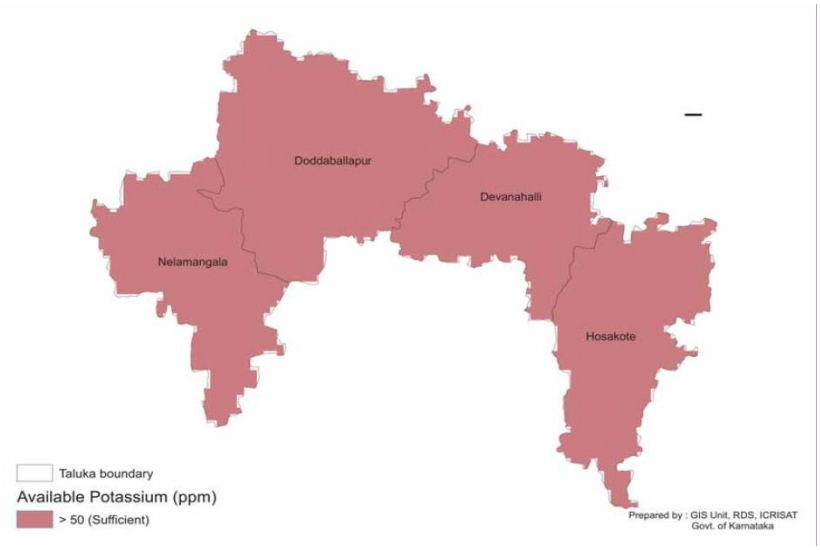
Electrical conductivity status in Bengaluru



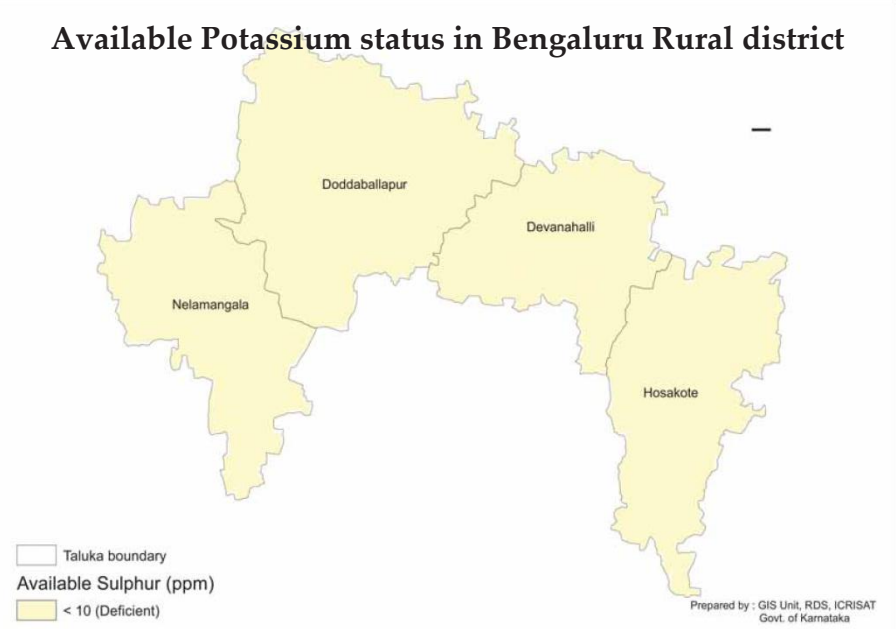
Organic carbon status in Bengaluru Rural district



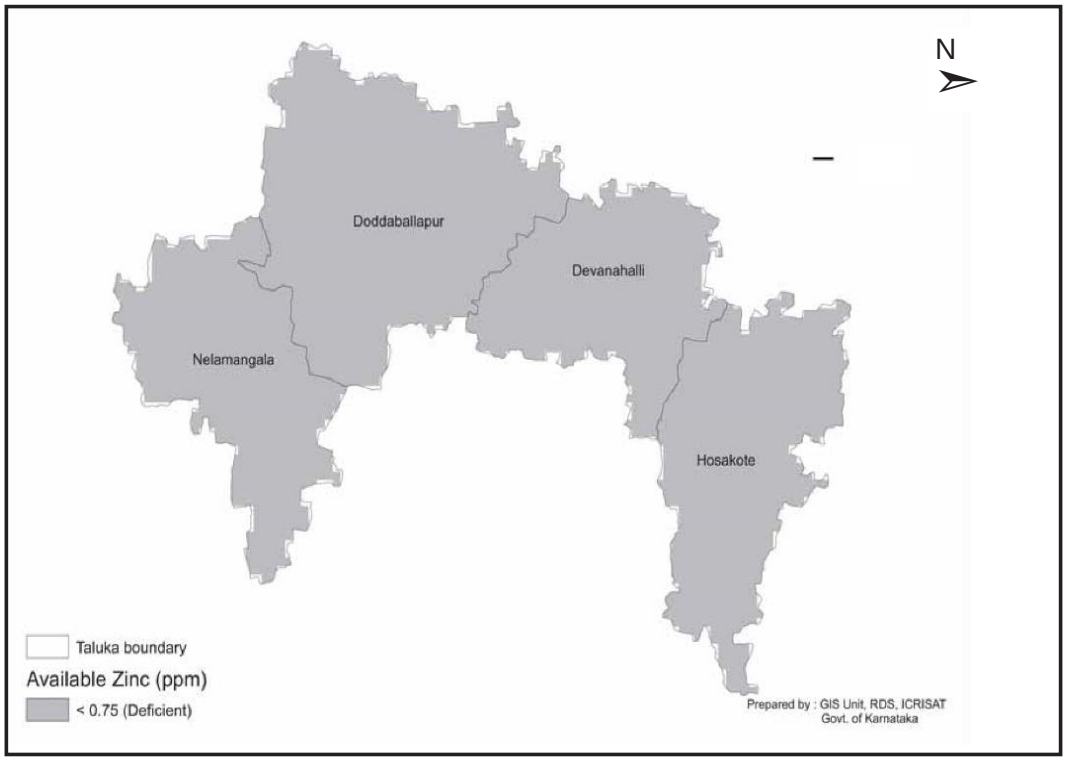
Available phosphorus status in Bengaluru Rural district



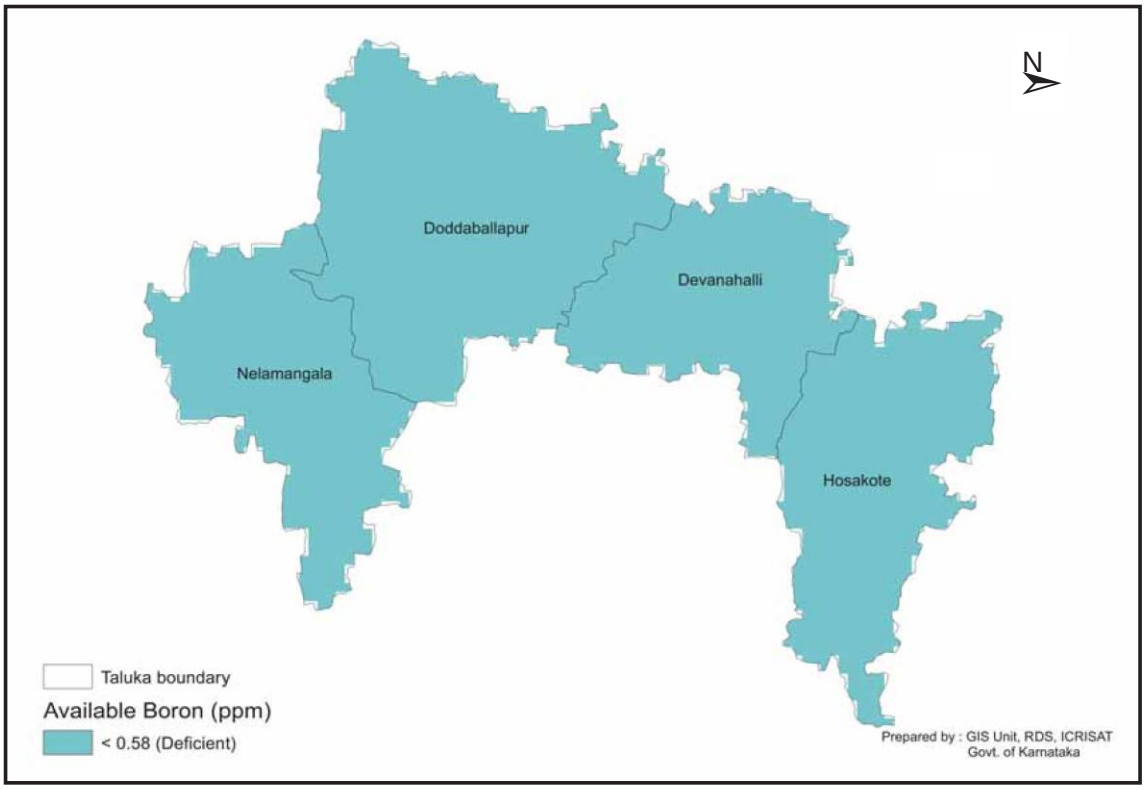
Available Potassium status in Bengaluru Rural district



Available Sulphur status in Bengaluru Rural district



Available zinc status in Bengaluru Rural district



Available Boron status in Bengaluru Rural district

1.7 : Land Use pattern:

Out of the geographical area of 229519 ha, 100226 ha (43.7%) is the net sown area and the forest area accounts for 11322 ha (4.9%) . Area sown more than once is 3220 ha and the cropping intensity works out to103.

Geographical area is highest in Doddaballapur taluk, 78760 (34.3%), followed by Hosakote, 54857 ha (23.9%) and Nelamangala, 50967 ha (22.2%). Lowest geographical area is in Devenahalli taluk, 44935 ha (19.6%).

Gross cropped area is the highest in Hosakote taluk (31931ha), followed by Doddaballapur (28822 ha) and Devanahalli (22990 ha). The lowest gross cropped area is in Nelamangala taluk (19703 ha). Further, net sown area is also highest in Hosakote taluk (28302 ha), followed by Doddaballapur (28302 ha) and Devanahalli (22054 ha). The lowest net cropped area is in Nelamangala taluk (19409 ha). Whereas, area under forest is higher in Doddaballapur taluk (3895 ha), followed by Hosakote (3444 ha) and Devanahalli (2275ha). Lowest forest area is in Nelamangala taluk (1708 ha).

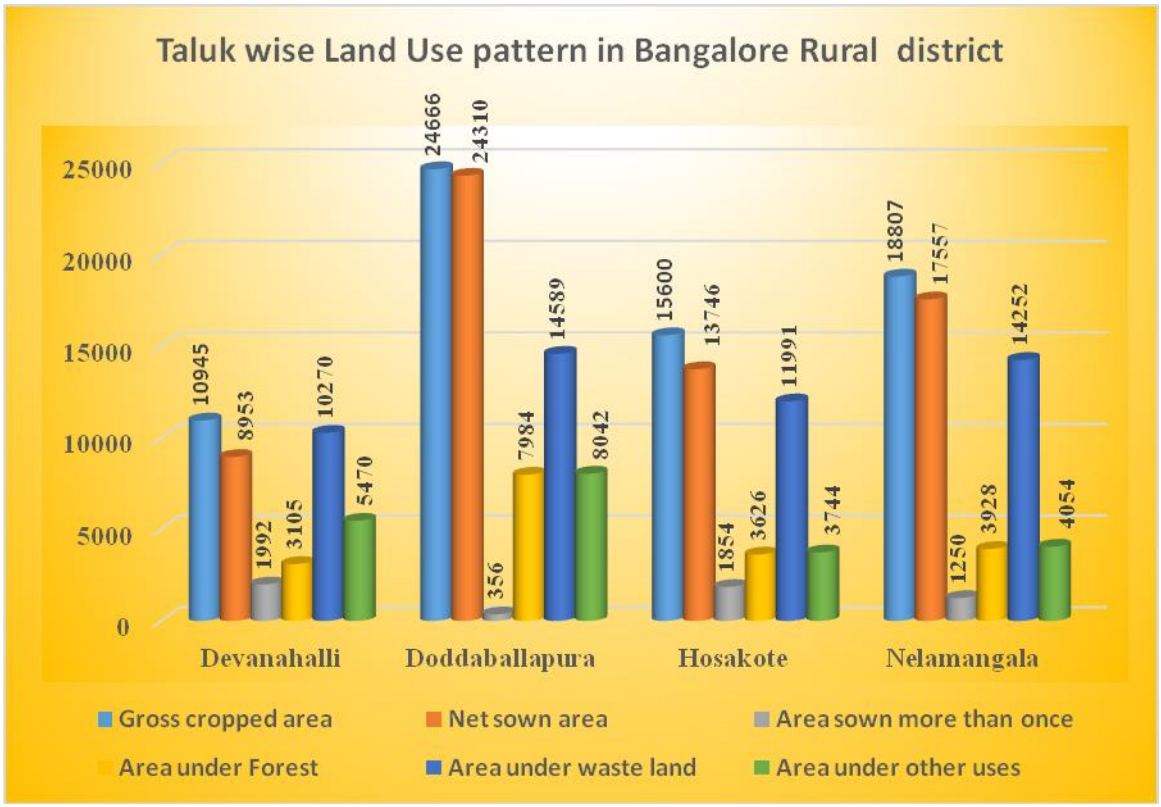
Out of gross cultivated area of 103446 ha, nearly 3220 ha is sown more than once bringing the net cultivated area is 100226 ha with a district cropping intensity of 103%. Devanahalli taluk has the highest cropping intensity 104 %, with 936 ha sown more than once and Nelamangala taluk has the lowest cropping intensity of 102 %. Taluk wise details are furnished in table 1.10 and Fig. 1.15.

Table 1.10 Taluk wise Land Use pattern in Bangalore Rural district.

Sl. No	Taluk	Total Geographical area	Gross cropped area	Net sown area	Area sown more than once	Cropping intensity (%)	Area under Forest	Area under waste land	Area under other uses
1	Devanahalli	44935	22990	22054	936	104	2275	6827	12821
2	Doddaballapur	78760	28822	28302	520	102	3895	16092	16288
3	Hosakote	54857	31931	30461	1470	105	3444	15470	14188
4	Nelamangala	50967	19703	19409	294	102	1708	6354	14093
Total		**229519**	**103446**	**100226**	**3220**	**103**	**11322**	**44743**	**57390**

Source: District at a glance :

Fig. 1.15.



CHAPTER II

DISTRICT WATER PROFILE

2.1. Area Wise, Crop Wise irrigation status:

Taluk wise**,** Season wise, Category wise Irrigated and Rainfed area details in Bengaluru Rural district is furnished at Annexure 2.1. Totally Agriculture, Horticulture crops and Mulberry is cultivated in an area of 103446 ha. Under irrigated condition, crops are cultivated in an area of 30309 ha (29.3%) and 73137 ha (70.7 %) area under rainfed condition. Agriculture crops are cultivated in an area of 70068 ha (67.7%), Horticulture crops in an area of 26891 ha (26.0%) and Mulberry in an area of 6487 ha (6.3%).

During Kharif season, agricultural crops are cultivated in an area of 67075 ha (95.7%), during Rabi season in an area of 2168 ha (3.1%) and during summer season in an area of 825 ha (1.2%). Lion's share of the area of 58127 ha (83.0%) under agricultural crops is covered with Cereal crops, where as Pulse crops are sown in an area of 9452 ha (13.5%) and Oilseeds in an area of 2489 ha (3.5%).

During Kharif season, agricultural crops are cultivated under irrigation on an area of 6434 ha (9.6%) and under rainfed condition in an area of 60641 ha (90.4%), during Rabi season agricultural crops are cultivated under irrigated condition in an area of 610 ha (27.1%) and under rainfed condition in an area of 1558 ha (71.9%) and during summer season all the crops are grown only under irrigated condition in an area of 825ha.

2.2. Production and productivity of major crops:

Production and productivity of major crops during Kharif, Rabi and Summer Taluk wise are furnished in Appendices 2.2. Productivity in brief

during Kharif, Rabi and summer seasons indicates crop yields are higher under irrigated condition than under rainfed conditions. It indicates that moisture is a crucial for crop yields and farmers may go for intensive cultivation of crops under irrigated conditions.

During Kharif season, total agriculture crops production in the district is 114301.91 MT and the productivity is 1804 Kg/ha. Average productivity in case of Cereals is the highest (1951 Kg/ha), followed by Pulses (664 Kg/ha). Average productivity is the lowest in case of Oilseeds (500 Kg/ha). Further, average yields are the highest in Devanahalli taluk (1760 kg/ha), followed by Doddaballapur (1741 Kg/ha), Nelamangala (1656 Kg/ha) and Hosakote taluk (1649 Kg/ha).

During Rabi season, total agriculture crops production in the district is 1988.7 MT and the average productivity is 1441 Kg/ha. Average productivity is the highest in Nelamangala taluk (2077 Kg/ha), followed by Doddaballapur (1418 Kg/ha) and Devanahalli (2077 Kg/ha) taluk and Hosakote (1418 Kg/ha)

During summer season, total agricultural crops production in the district is 788.10 MT with an average productivity of 2571 Kg/ha. Average productivity is highest in Doddaballapur (3386 kg/ha), followed by Devanahalli taluk (3350 Kg/ha), Hosakote (2433Kg/ha), and Nelamangala (681 Kg/ha).

2.3. Irrigation based classification:

The Bengaluru Rural district has very less area under irrigation, since there are no canal irrigation. Although there are 754 tanks and 6017 open wells, there is no water in these tanks and wells, hence no area is irrigated from these sources. However, the district has 33358 bore wells through which 24952 ha of net area and 28132 ha under gross area are irrigated. In view of frequent droughts and over exploitation of underground water, depth of water in the bore

wells has gone below 1000 feet and most of the areas this water has very high fluoride content not fit for domestic use as well as irrigation.

The Net irrigated area of the district is 24995 ha and the gross irrigated area is 28175 ha and about 73137 ha is under rainfed condition. An area of 3180 ha is sown more than once and the irrigation intensity works out to113%.

Table 2.1. Source wise area irrigated in Bengaluru Rural district.

(Area in ha)

Sl No	Taluk	Tanks			Open Wells			Tube/Bore Wells			Lift irrigation		Total	
		Nos.	Area		Nos.	Area		Nos.	Area		Area		Area	
			Gross	Net		Gross	Net		Gross	Net	Gross	Net	Gross	Net
1	Devanahalli	114			1648			10638	8055	7119			8055	7119
2	Doddaballapur	168			427			9019	10511	10031			10511	10031
3	Hosakote	209			2553			8866	3764	2294	43	43	3807	2337
4	Nelamangala	263			1389			4835	5802	5508			5802	5508
Total		**754**	**0**	**0**	**6017**	**0**	**0**	**33358**	**28132**	**24952**	**43**	**43**	**28175**	**24995**

Source: District at a glance

CHAPTER III

WATER AVAILABILITY

3.1. Status of Water availability:

Bengaluru Rural district comprising of 4 taluks comes under Southern Eastern Dry Zone (Zone V). The zone has the characteristic of low rainfall pattern with more uniform and bi-modal distribution. The average annual rainfall of the district is 834 mm with Nelamangala receiving 920 mm, Hosakote – 829 mm, Doddaballapur –796 mm and Devanahalli – 792 mm. The number of rainy days in the district varies from 49 to 53 days.

The general situation of water availability in Bengaluru Rural district is dominated by the limited rainfall and variations in the rainfall have caused the failures of agriculture frequently. The district is dependent only on the tube wells (0.256 BCM) and tanks (0.109 BCM) for the purpose of irrigation. There is no canal irrigation facility in the district.

Table 3.1. Status of Water availability in Bengaluru Rural district

Sl. No	Sources	Tanks	Rabi/ summer	Live capacity (BCM)	Total (BCM)
1	**Surface Irrigation**				
i)	Canal (Major & Medium Irrigation)				
ii)	**Minor Irrigation tanks (ZP tanks)**				
A	Devanahalli	103		0.0014	0.0014
B	Doddaballapur	161		0.0037	0.0037
C	Hosakote	168		0.0097	0.0097
D	Nelamangala	182		0.0075	0.0075
	Total tanks	**614**		**0.0223**	**0.0223**

….contd

Sl. No	Sources	Tanks	Rabi/ summer	Live capacity (BCM)	Total (BCM)
ii)	**Minor Irrigation tanks**				
A	Devanahalli	14		0.0160	0.0160
B	Doddaballapur	39		0.0162	0.0162
C	Hosakote	24		0.0282	0.0282
D	Nelamangala	21		0.0248	0.0248
	Total tanks	**98**		**0.0851**	**0.0851**
iii)	**Lift Irrigation/Diversion**				
A	Devanahalli			0	0.0000
B	Doddaballapur	1		0.0003	0.0003
C	Hosakote (2 lift irrigation schemes)	2		0.0004	0.0004
D	Nelamangala	2		0.0005	0.0005
iv)		**5**		**0.0012**	**0.0012**
Total Surface irrigation Availability		**717**		**0.109**	**0.109**
V	Various Water Bodies Including Rain Water Harvesting				
Vi)	Treated Effluent Received from STP			0.000001	0.000001
VII)	Untreated Effluent				

…..contd

Sl. No	Sources	Tanks	Rabi/ summer	Live capacity (BCM)	Total (BCM)
2	Perennial sources of water				
	Ground Water				
i)	Open Well				
	Deep Tube well				
	Devanahalli	5587		0.05590	0.05590
	Doddaballapur	6206		0.06851	0.06851
	Hosakote	6076		0.06448	0.06448
	Nelamangala	6297		0.06746	0.06746
	Total	**24166**	**0**	**0.256**	**0.256**
ii)	Dug Well				
	Devanahalli	**6**			
	Doddaballapur	20			
	Hosakote	5			
	Nelamangala	12			
	Total	**43**	**0**	**0**	**0.000**
Total Ground Water Availability		**24209**	**0**	**0.256**	**0.256**
Total (Surface + GW)		**24926**	**0**	**0.365**	**0.365**

Source: Agriculture Dept./Irrigation Dept.

3.2 Status of Ground water availability:

The ground water estimation is worked out based on the methodology recommended by Ground Water Estimation Committee. The ground water resource of the entire State has been computed by Central Ground Water Board (CGWB, 2013). The salient features of the ground water resources are given below. The data has been computed Block-wise. The areas having

slopes of >20% have been excluded from the recharge computation. The information has been calculated separately for each taluk.

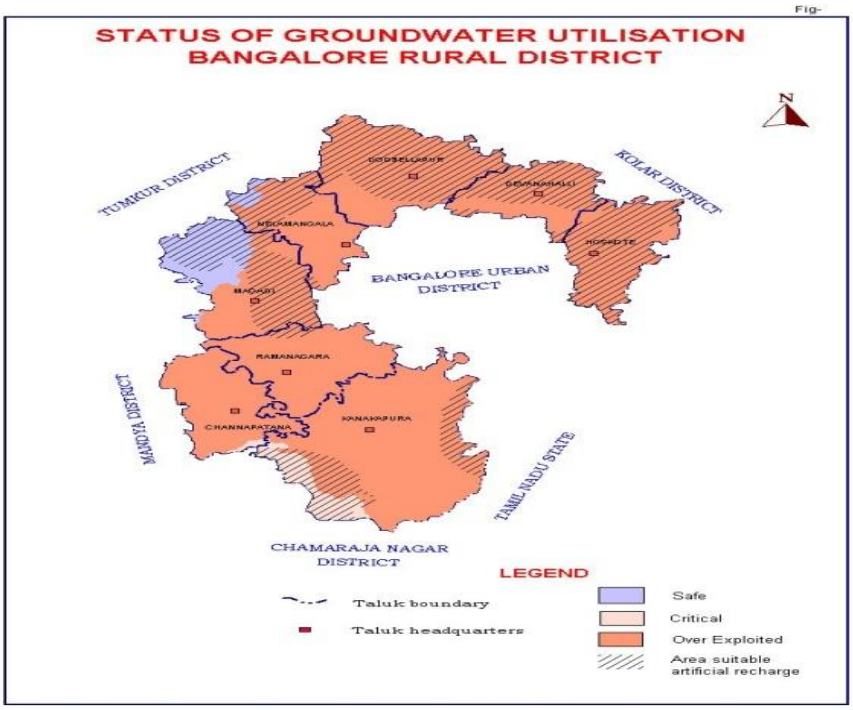
As per the ground water estimation studies, the whole Bengaluru Rural district is overexploited, as indicated in Table 3.2 except for a minor area of 10 % of the Nelamangala taluk, which is safe. The total draft is 32.2 % more than the annual replenishable recharge warranting for intensive water recharging structures like recharge pits, trench cum bunds and bore well recharging structures etc., to be taken up coupled with efficient use of available water by adopting drip and sprinkler irrigation for agriculture and horticulture crops.

Table 3.2 Status of ground water in Bengaluru Rural district

Taluk	Status of ground water exploitation- taluk wise (% area in each taluk)				Status of ground water draft, recharge (BCM)	
	Safe	Semi critical	Critical	Over exploited	Annual Net groundwater available, BCM	Total underground water draft for all uses
Devanahalli	--	--	--	100	0.04101	0.06053
Doddaballapur	--	--	--	100	0.04973	0.06500
Hosakote	--	--	--	100	0.0434	0.06252
Nelamangala	10	--	--	90	0.0598	0.06848
Total					**0.19394**	**0.25653**

http://cgwb.gov.in/District_Profile/karnataka/2012/BANGALORE_RURAL-2012.pdf; Groundwater Information Booklet –Bangalore Rural District, 2013

Fig 3.1



3.3. Status of Command area:

Bengaluru Rural district has no canal irrigation facilities as there are no reservoirs in the district except for tanks and tube wells.

3.4. Existing type of irrigation:

The total irrigated area in Bengaluru Rural district is mainly through tube wells. An area of 24952 ha is irrigated by tube wells. Doddaballapur taluk has an irrigated area of 10031 ha, Devanahalli taluk -7119 ha, Nelamangala taluk – 5508 ha, while Hosakote taluk has an area of 2294 ha irrigated by tube wells. Hosakote taluk has small area of 43 ha under lift irrigation.

3.3. Status of Existing type of irrigation (Net area irrigated).

Area in hectares

Sl. No	Taluk	Canal	Tanks	Open wells	Tube wells	Lift irrigation	Others	Total
1	Devanahalli				7119			7119
2	Doddaballapur				10031			10031
3	Hosakote				2294	43		2337
4	Nelamangala				5508			5508
Total		**--**	**--**	**--**	**24952**	**43**	**--**	**24995**

Source: District at a glance

Tube wells are the only source of irrigation in Bengaluru Rural district. Tube wells irrigate around 25000 ha spread in all the taluks. Major irrigated area is in Doddaballapur taluk (10031ha). Hosakote taluk ha minimum area irrigated by wells (2337 ha). All the tanks in the district are either dried up or used for drinking purposes and no irrigation is reported from any tanks in the district. All the open wells are dried up, although many of them are not closed.

3.5. Existing water available from various sources in Bengaluru Rural district.

The surface water available from minor irrigation (tanks maintained by Zilla Panchayats and minor irrigation Department), lift irrigation and treated effluent from STP amounts to 0.108701 BCM at present, where as 0.19394 BCM of water is available from underground (wells) in the district. Nelamanagala and Hosakote taluks possess relatively higher amounts of water available from the various sources, followed by Doddaballapur taluk, while it is lower in Devanahalli taluk. Regarding net underground water recharge, relatively higher amounts of water is available in taluks of Nelamangala,

Doddaballapur and Hosakote as compared to Devanahalli (Table 3.4, Fig. 3.2). Of the total water available from various sources (0.30264 BCM), major water of 0.19394 BCM comes from groundwater recharge annually (64.1%) and 0.108701 BCM from tanks and lift irrigation (35.9% of the total) (Table 3.4, Fig. 3.2).

Table 3.4. Water available from various sources in Bengaluru Rural district

Taluks	Net underground water available, BCM (CGWB)#	Surface water available from various sources##	Total water available, BCM - 2015 (Col. 1+2)
	1	2	3
Devanahalli	0.04101	0.0174	0.05841
Doddaballapur	0.04973	0.0202	0.06993
Hosakote	0.0434	0.0383	0.0817
Nelamangala	0.0598	0.0328	0.0926
Total	**0.19394**	**0.108701**	**0.30264**

#- http://cgwb.gov.in/District_Profile/karnataka/2012/BANGALORE_RURAL-2012.pdf;
- Includes water from tanks (maintained by ZP and Minor Irrigation Departments, treated effluents from STP, lift irrigation)- for details refer Table 3.1.

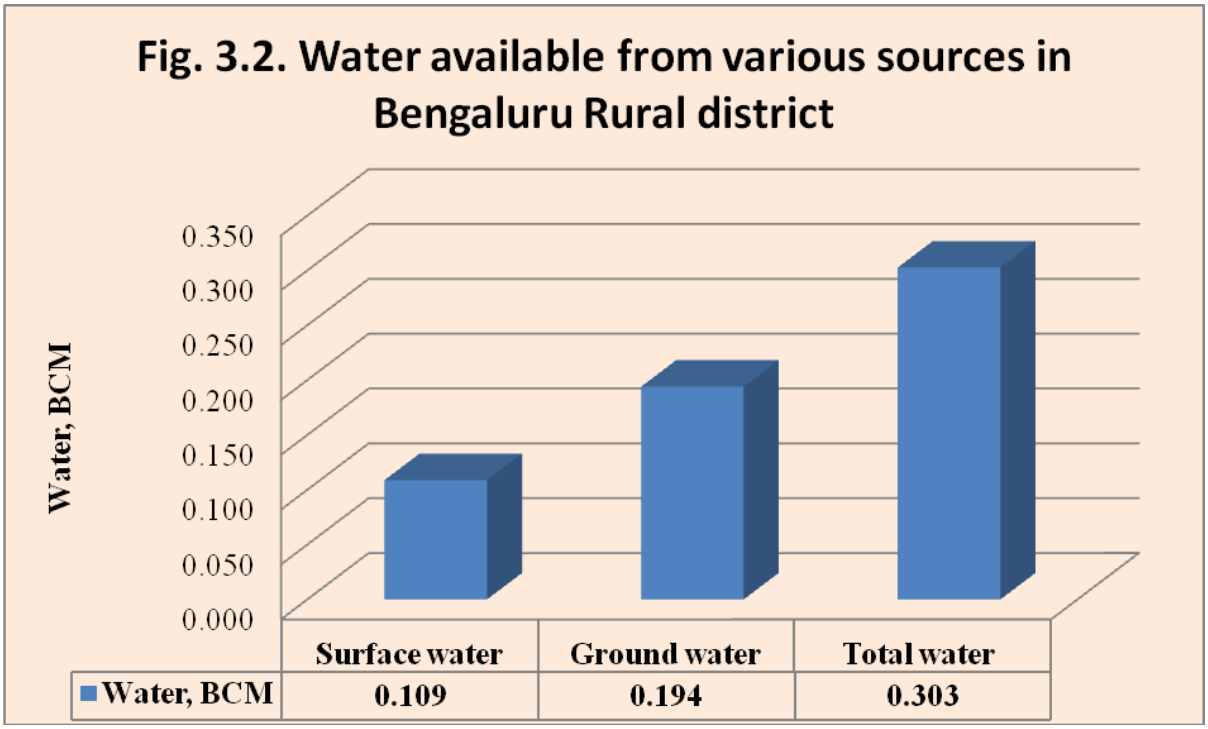


Fig. 3.2. Water available from various sources in Bengaluru Rural district
Water, BCM
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
Surface water
Ground water
Total water
Water, BCM
0.109
0.194
0.303

CHAPTER IV.

WATER REQUIREMENT/ DEMAND - BENGALURU RURAL DISTRICT

Water is a precious natural resource provided by nature to mankind for usage in various activities. Life does not exist without water. All living organisms depend on water for performing various vital functions for survival. Major portion of water is used for agriculture all over India and that too in Karnataka. Although water is renewable resource, it is quite dynamic and becoming scarce due to spatial and temporal variation in rainfall. Water is needed to ensure food security, feed livestock, maintain organic life (sustain lifestyle of human beings, living creatures, conserve biodiversity and environment), industrial use, etc. However with reckless abuse and increasing demand due to growing population and undesirable lifestyle, many states are facing severe water crisis. It is not only due to rapid population growth alone, but also on account of many other factors such as rise in per capita water demand arising out of continuous upward movement of living standards, increased reliance on irrigated agriculture, massive urbanization and industrialization etc. The available utilizable water resource of the country is considered insufficient to meet all future needs. Under such a situation, in order to face the challenge of water deficit, apart from accelerating pace of development of available utilizable water resources, all out efforts, on the part of people from every walk of life, would need to be made to conserve every drop of water and improve efficiency in all areas of water use.

The National Commission on Agriculture in 1976 estimated water resources in the country for 1974 and projected for 2000 and 2025 based on certain empirical formulae and assumptions related to runoff characteristics of soil, rainfall events and vegetation cover. India is a vast country with a geographical area of 328 Mha and receiving annual precipitation of 1194 mm.

This amounts to availability of 400 Mha-m (million hectare meter) of water to India. Out of this, 17.5% goes as immediate evaporation (70 Mha-m), 53.8% as precipitation into soil (215 Mha-m) and 28.7% as surface runoff (115 Mha-m, which includes 10 Mha-m as snowfall). Further total precipitation received on the soil is further divided into 41.3% (165 Mha-m) as soil moisture available for crops and 12.5% as ground water (50 Mha-m). Water is lost through evaporation to an extent of 20% in medium and major reservoirs and 40% in tanks. This assumption is followed for Karnataka (Bhaskar *et al*., 2016).

Karnataka has total geographical area of 19.05 million ha receiving an annual precipitation of 1133.3 mm (average of 55 years from 1960 to 2014). About 71% of rainfall is received during south west monsoon (June to September), while north monsoon contributes 17% (October to December) and early showers by 12%. The south west monsoon sustains agricultural activity in most parts of the state, as large proportion of agriculture is rainfed farming. Taking geographical area and rainfall into consideration, available water due to precipitation is 21.76 Mha-m to Karnataka (215.2864 BCM or 7688.8 TMC). Following NCA 1976 recommendation, out of 215.2864 BCM (7688.8 TMC) of water, 53.8% percolates into soil (115.822 BCM or 4136.57 TMC), 17.5% as immediate evaporation loss (37.674 BCM or 1345.54 TMC), and 28.7% as surface water runoff (61.7876 BCM or 2206.69 TMC).

The average annual rainfall in Karnataka is 1133.3 mm. The state is divided into four meteorological zones viz. North Interior Karnataka, South Interior Karnataka, Malnad and Coastal Karnataka. Coastal Karnataka with an average annual rainfall of 3456 mm is one of the rainiest regions in the country. Contrasting this, the region of South Interior Karnataka and North Interior Karnataka receive only 1286 and 731 mm of average annual rainfall.
(https://en.wikipedia.org/wiki/Rainfall_in_Karnataka).

Karnataka accounts for about six percent of the country's surface water resources. Around 60% of this is provided by the west flowing rivers, while the remaining comes from the east flowing rivers. There are seven river basins in all formed by the Godavari, Cauvery, Krishna, the west-flowing rivers, North Pennar River, South Pennar, and Palar.

(http://waterresources.kar.nic.in/river_systems.htm);
(https://en.wikipedia.org/wiki/Geography_of_Karnataka).

Bengaluru Rural district has a total geographical area of 229,519 ha receiving an annual precipitation of 83.4 cm. Nelamangala taluk receives higher rainfall of 92.0 cm, followed by Hosakote taluk (82.9 cm), while it is lower in Doddaballapur and Devanahalli (79.2 to 79.6 cm). Most of rain (77%) is received during south west monsoon (June to September). The south west monsoon sustains agricultural activity in most parts of the state, as large proportion of agriculture is rainfed farming. Taking geographical area and rainfall into consideration, available water due to precipitation is 1.90647 BCM to Bengaluru Rural. Following NCA 1976 recommendation, out of 1.90647 BCM of water, 53.8% percolates into soil (1.025683943 BCM), 17.5% as immediate evaporation loss (0.333633253 BCM), 28.7% as surface water runoff (0.547158535 BCM) and 12.5% as underground water (0.2383095 BCM) (Table 4.1). Water availability is relatively more in Doddaballapur taluk, followed by Nelamangala, Hosakote, while it is relatively lower in Devanahalli.

4.1. Water Demand for domestic need:

A number of factors like climate, culture, food habits, work and working conditions, level and type of development, and physiology determine the requirement of water. The per capita water requirement in urban areas is more than that in the rural areas. As per the Bureau of Indian Standards, IS:1172-1993, a minimum water supply of 200 liters per capita per day (lpcd) should be provided for domestic consumption in cities with full flushing systems.

IS:1172-1993 also mentions that the amount of water supply may be reduced to 135 lpcd for the LIG and the economically weaker sections (EWS) of the society and in small towns [Modi, 1998]. However, in the Tenth Plan (2002-07), the cities with planned sewerage systems are classified into two groups based on population, i e, metropolitan or megacities (minimum water supply level is 150 lpcd) and non-metropolitan cities (135 lpcd) [Government of India 1997, 2002]. Over and above the aforesaid demand, 15% losses may be allowed for determining the quantity of raw water required.

During 2015, water requirements for domestic use in Hosakote and Doddaballapur taluks are relatively higher (0.014142 to 0.015842 BCM), while it is lower in taluks of Nelamanagala and Devanahalli (0.011031 to 0.011044 BCM). The water requirements in these taluks corresponded to the prevalent population. For district as whole, water demand is 0.052059 BCM in 2015 (Table 4.3). With projected growth of population of 16% during 2011 to 2020, the domestic water requirements in the taluks of Bengaluru Rural district followed the same trend (Table 4.1, Fig. 4.1).

Thus, domestic water requirement is projected at 0.0565569 BCM in 2020 from the present consumption level of 0.052059 BCM during 2015 (Table 4.1, Fig 4.1).

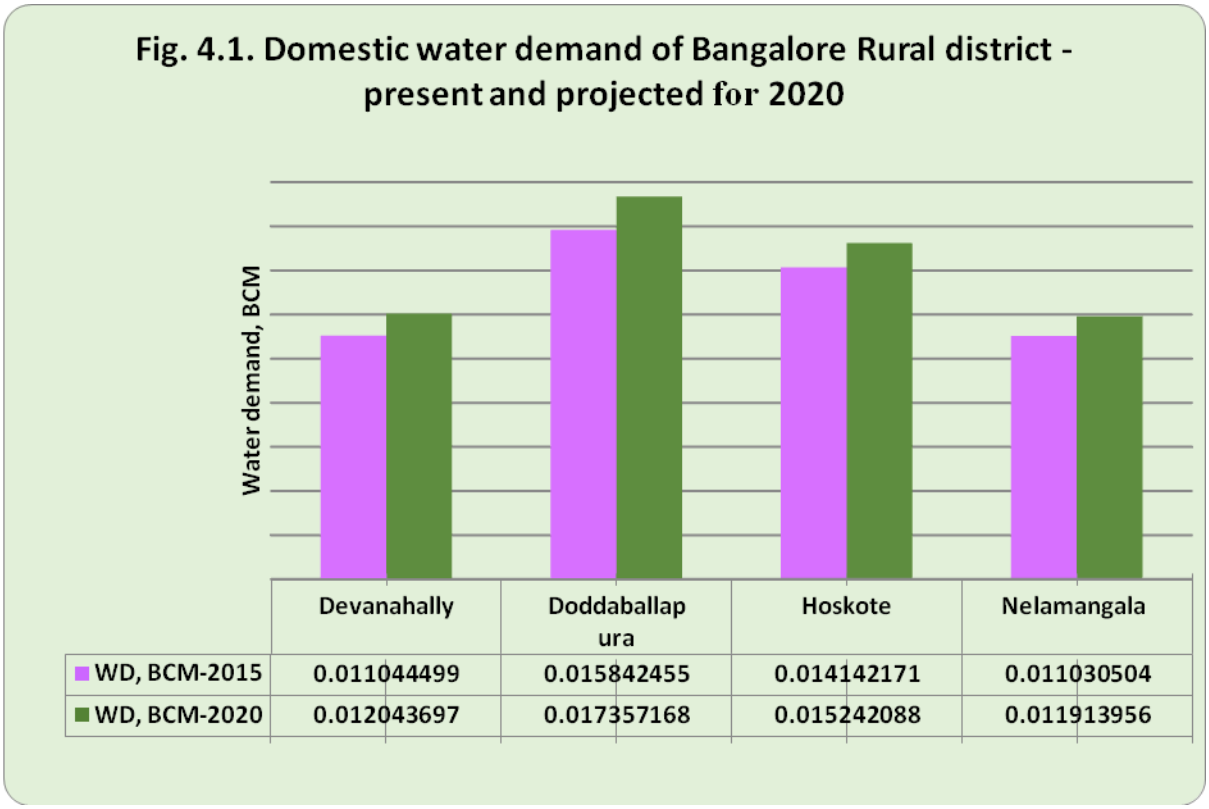


Table 4.1. Domestic water demand (BCM) of Bengaluru Rural district - present and projected 2020

Blocks/ Taluks	Population in 2011	Water demand in 2011, BCM	Population in 2015	Water demand in 2015, BCM	Projected population, 2020	Projected water demand by 2020, BCM
Devanahalli	209,622	0.010329124	224,140	0.011044499	244,418	0.012043697
Doddaballapur	299,544	0.014762494	321,511	0.015842455	352,251	0.017357168
Hosakote	270,818	0.013344557	287,005	0.014142171	309,327	0.015242088
Nelamangala	210,889	0.010391555	223,856	0.011030504	241,785	0.011913956
Total	**990,873**	**0.048827731**	**1056,512**	**0.052059629**	**1147,781**	**0.056556909**

Water requirement for human being - 135 liters/head/day, lphd;
Domestic Water requirement/Demand in Billion cubic meter, BCM
= (Population X Water requirement, 135 lphd X 365 days)/ (1000 liters X 1,000,000,000)
Assumption: Increase in population during 2011 - 2021 is 16.4% similar to as that of decadal growth rate of population of 12.3% observed between 2001-2011.
{Source: Bengaluru Rural district at a glance 2014-15, Zilla Panchayat, Bengaluru Rural}

4.2. Water requirement for crops:

Field/horticultural/plantation crops grown in Bengaluru Rural district are paddy, maize, groundnut, ragi (both in Kharif & summer), Tur, cowpea, avare, horse gram, castor, niger (in Kharif only), Bengal gram (rabi only) (under agriculture), fruit crops, and vegetable crops. For calculation of water requirement of irrigated crops, following methodology and some assumptions have been used based on the recommendations of the NCA, 1976 and methodology suggested by Bhaskar et al. (2016).

Irrigation water requirement considered for calculation purpose for various crops are paddy (150 cm in rabi/summer, 100 cm in Kharif), maize - 60 cm, bajra/jowar - 45 cm, red gram - 70 cm, groundnut - 45 cm, other oilseeds - 40 cm, cowpea/green gram/other pulses - 40 cm, vegetable crops - 50 cm, and fruit crops - 60 cm. From this, water requirement of various crops and the area of the crops grown under irrigation, irrigation water requirement for crops has been worked out.

Assumption - Rain water accounted for crop use is 30% of total rainfall occurring during the cropping season in Bengaluru rural district, considering the soil type (sandy soil, sandy loam soils) and the intensity of rain. Rain water used for rainfed crops during the growing season is accounted for calculation of water requirement of rainfed crops.

Total water requirement of crops is relatively higher in Doddaballapur (0.071602 BCM), followed by Hosakote (0.065592 BCM), Devanahalli (0.0549539 BCM) and Nelamangala (0.0532920 BCM) and in view of large area of under field crops. Total water requirement of field crops of the district is 0.122910 BCM, whereas total water requirement of cereals is 0.104244 BCM in view of large under crops (maize, ragi). Water demand for total horticultural

crops is 0.122529 BCM for Bengaluru Rural district, of which major share goes to fruits (0.070757 BCM), followed by vegetables (0.040713 BCM). Further, water demand of total horticulture crops is more in Hosakote (0.038871 BCM), followed by Devanahalli (0.036653 BCM), Doddaballapur (0.024872 BCM) as compared to Nelamangala taluk (0.02213 BCM). The projected water demand for total crops is also worked out for 2020, keeping 10% increase in irrigated area due to efficient rain water use, more under area and other means. For Bengaluru Rural district, the projected total water demand for crops is 0.269984 BCM by 2020 as compared to the present demand of 0.2454389 BCM), which amounts to 10% increase (Table 4.2, Fig. 4.2, 4.2a).

Table 4.2. Water requirement of horticulture and agricultural crops (BCM) in Bengaluru Rural district - 2014-15

Taluks	Vegetables	Fruits	Spices	Flowers	Total Hort crops
	Net Water requirement, BCM – 2015 – Horticulture crops				
Devanahalli	0.0205569	0.0138083	0.0005727	0.001715	0.0366529
Doddaballapur	0.0131215	0.0086394	0.0011510	0.00196	0.0248719
Hosakote	0.0264489	0.0089052	0.0006319	0.002885	0.0388710
Nelamangala	0.0106300	0.0093598	0.0004281	0.001715	0.0221330
Total	**0.0707574**	**0.0407127**	**0.0027837**	**0.008275**	**0.1225289**

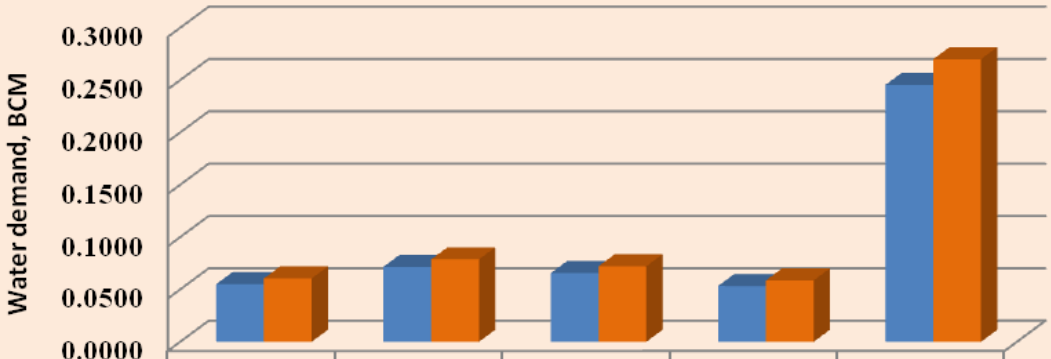
Field crops						
	Cereals	**Pulses**	**Oilseeds**	**Total field crops**	**Total crops – 2015**	**Total crops – 2020**
Devanahalli	0.015304	0.002511	0.000486	0.018301	0.0549539	0.0604494
Doddaballapur	0.040248	0.004771	0.001711	0.046730	0.0716019	0.0787621
Hosakote	0.021914	0.003700	0.001106	0.026721	0.0655920	0.0721512
Nelamangala	0.026778	0.003834	0.000547	0.031159	0.0532920	0.0586212
Total	**0.104244**	**0.014816**	**0.003850**	**0.122910**	**0.2454389**	**0.2699839**

Water requirement for crops: Fruit crops - 60 cm, Vegetable crops - 50 cm, Maize - 60 cm, Pulses - 40 cm, Oilseeds - 40 cm, Groundnut - 45 cm, Tur - 70 cm, Jowar - 55 cm, Ragi - 45 cm; Rice - 150 cm during rabi/summer, 100 cm in Kharif, Sugarcane - 200 cm, Banana - 120 cm, Flowers - 40 cm, Tomato/Onion - 60 cm

Irrigation water requirement, ha - cm = Area of the crop, ha X Water requirement of the crop, cm; One ha-cm = 1,00,000 liters or 100 cubic meters;

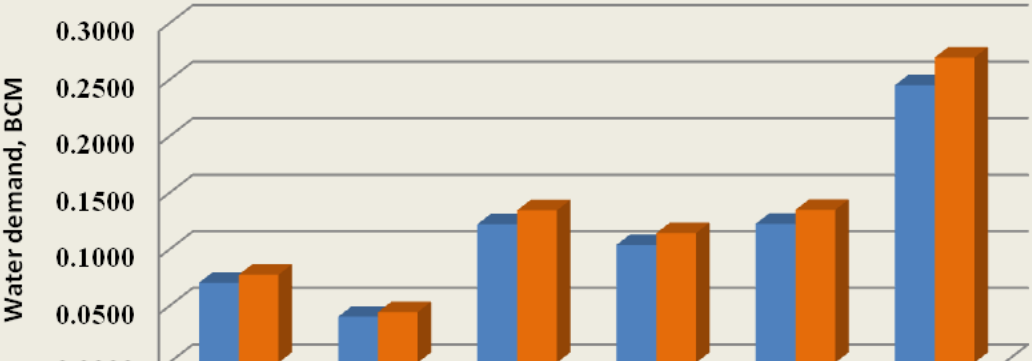
Irrigation water requirement in BCM = {(Irrigation water requirement, ha-cm X 100)/100,000}; Source: Bengaluru Rural district at a glance 2013-14, 2014-15;

Fig. 4.2. Water demand of various crops taluk wise in Bengaluru Rural district - 2015 & 2020



	Devanahally	Doddaballapura	Hoskote	Nelamangala	Total
WD-2015	0.0550	0.0716	0.0656	0.0533	0.2454
WD-2020	0.0604	0.0788	0.0722	0.0586	0.2700

Fig. 4.2a. Water demand of various crops in Bengaluru district - 2015 & 2020



	Fruits	Vegetables	Tot Hort crops	Cereals	Tot Fld crops	Total crops
WD-2015	0.0708	0.0407	0.1225	0.1042	0.1229	0.2454
WD-2020	0.0778	0.0448	0.1348	0.1147	0.1352	0.2700

4.3. Water requirement of Livestock:

Livestock sector plays a significant role in rural economy of India. It contributes to 5% of total domestic gross product (DGP) and one fourth of total agricultural GDP (AgGDP). Livestock sector is unique in terms of providing

employment opportunity particularly to two third of women workforce in India towards animal rearing. Livestock is an integral part of mixed farming of Indian agriculture. Both indigenous cattle and buffalo population registered an annual decline of 4.5 per cent and 4.3 per cent, respectively between 2007 and 2012 census periods, while that of crossbred cattle increased by 5.8 per cent (https:www/Uttara%20Kannada/Livestock%20census%20Karnataka.pdf).

Besides, contributing food and inputs (draught energy and manure) for crop production, livestock are important as savings or investments for the poor household and provide food security or insurance through various ways in different production systems. Rainfed regions support the highest number of livestock units. Except buffalo and pigs, more than half of all livestock species (52.3 to 60.1%) are concentrated in the rainfed region. Even 43.1% of the total buffalo and 44.7% of pigs are reared in rainfed region. Irrigated region accounts for higher proportion of buffalo (43.1%) and except sheep it accounts for second highest population of all major livestock species. although the resource degradation in rainfed areas has been observed, various support programmes of the government are encouraging mixed farming to stabilize the income of the resource poor farmers of arid and semi-arid regions of the state. Considering these facts, increase in total population of the livestock has been maintained at 5% in 2020 as compared to earlier census of 2012 (Anjani Kumar and Singh, 2008).

Water requirement for livestock and other animals namely - indigenous cattle, cross bred cattle, draft animals/bulls/others, sheep, goats, pigs, duck, and poultry, have been calculated separately with the corresponding population for 2012. The projected water requirement for livestock population at 2020 has also been calculated separately for all live stocks. The total water requirement for live stocks for 2012 and projected for 2020 is provided taluk wise in Table 4.3.

Total population of livestock and other animals in Bengaluru Rural district is 4521,702 during 2012 and their water requirement is 0.004475714 BCM. Considering the increase in the population of livestock at 5% from 2012 to 2020, their water demand would be 0.004953109 BCM with corresponding population of 4747,787 (Table 4.3, Fig. 4.3). Water demand of livestock is more in Doddaballapur, followed by Devanahalli, Nelamangala and Hosakote taluks, as reflection of corresponding livestock population in these taluks.

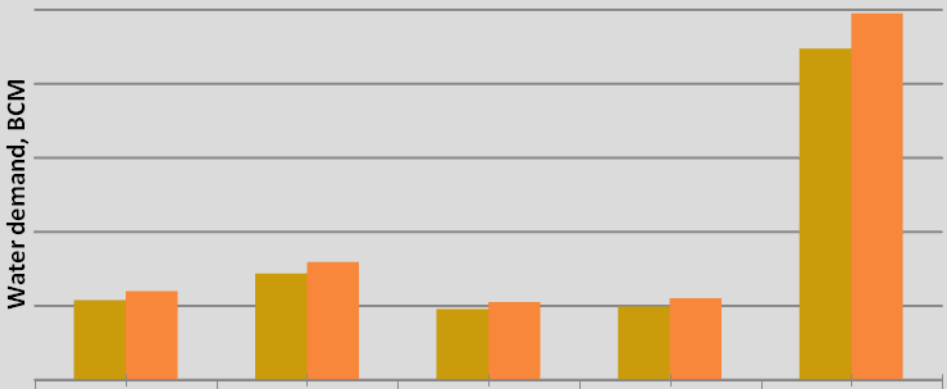
Table 4.3. Water requirement of livestock and other animals in Bengaluru Rural district in 2012 and projected for 2020

Taluks	Water requirement of livestock, Billion cubic meters (BCM)			
	Population, 2007	Present Water requirement for 2012, BCM	Projected Population, 2020	Water requirement for 2020, BCM
Devanahalli	1479,896	0.00108164	1553,891	0.001200472
Doddaballapur	1160,472	0.001439434	1218,496	0.001593302
Hosakote	1413,566	0.000960071	1484,244	0.00105507
Nelamangala	467,768	0.000994569	491,156	0.001104265
Total	**4521,702**	**0.004475714**	**4747,787**	**0.004953109**

Water requirement for various livestock: liters/head/day, lphd: Indigenous cattle - 36 lit; Cross bred cattle/Buffalo - 55 lit; Sheep/Goat - 3.5 lit; Pigs - 6.3 lit; Poultry - 0.3 lit; Dog - 1.8 lit; Duck - 1.0 lit; Others (Bull/He Buffalo/Others) - 55 lit

Water requirement is calculated based on water requirement for various livestock(s), BCM = {(Population of livestock * Water requirement for various livestock, lphd X 365 days)/1000*1000,000,000)}

Fig. 4.3. Water demand of livestock and other animals of Bangalore Rural district - Present and projected for 2020



	Devanahalli	Doddaballapur	Hoskote	Nelamangala	Total
WD, BCM-2012	0.00108164	0.001439434	0.000960071	0.000994569	0.004475714
WD, BCM-2020	0.001200472	0.001593302	0.00105507	0.001104265	0.004953109

4.4. Water demand for Industry

Surface water is the major source of water for the industries in India (41%) followed by groundwater (35%) and municipal water (24%). With greater demand for water, water availability to Industries is becoming scarce and has to invest more for getting water. In addition, industries have to adopt conservation measures and reuse of water after treatment. The water available from waste water treatment is being used for gardening.

While inadequate availability of water is the major risk facing the industries (37%), others agree that poor water quality is another major risk in the running of business (14%). Sectors like pharmaceuticals, power, food processing and agriculture feel the brunt of poor water quality. High costs for obtaining water are hindering the business interest of smaller industries and the ones which are located in the drier regions of the country. Around 14 per cent of the respondents also feel that environmental changes over the past few decades have had an impact on freshwater availability. A realization is

gradually emerging that rectifying measures needs to be taken by industries to augment freshwater through rainwater harvesting and wastewater treatment and reuse.

Indian industry is becoming responsive to the fact that it should be the role of every user to undertake measures for water conservation. It is desirable that the shared responsibility of companies across sectors is to join hands with communities and governments to work on programmes for water conservation, recharge and wastewater treatment (FICCI, 2011).

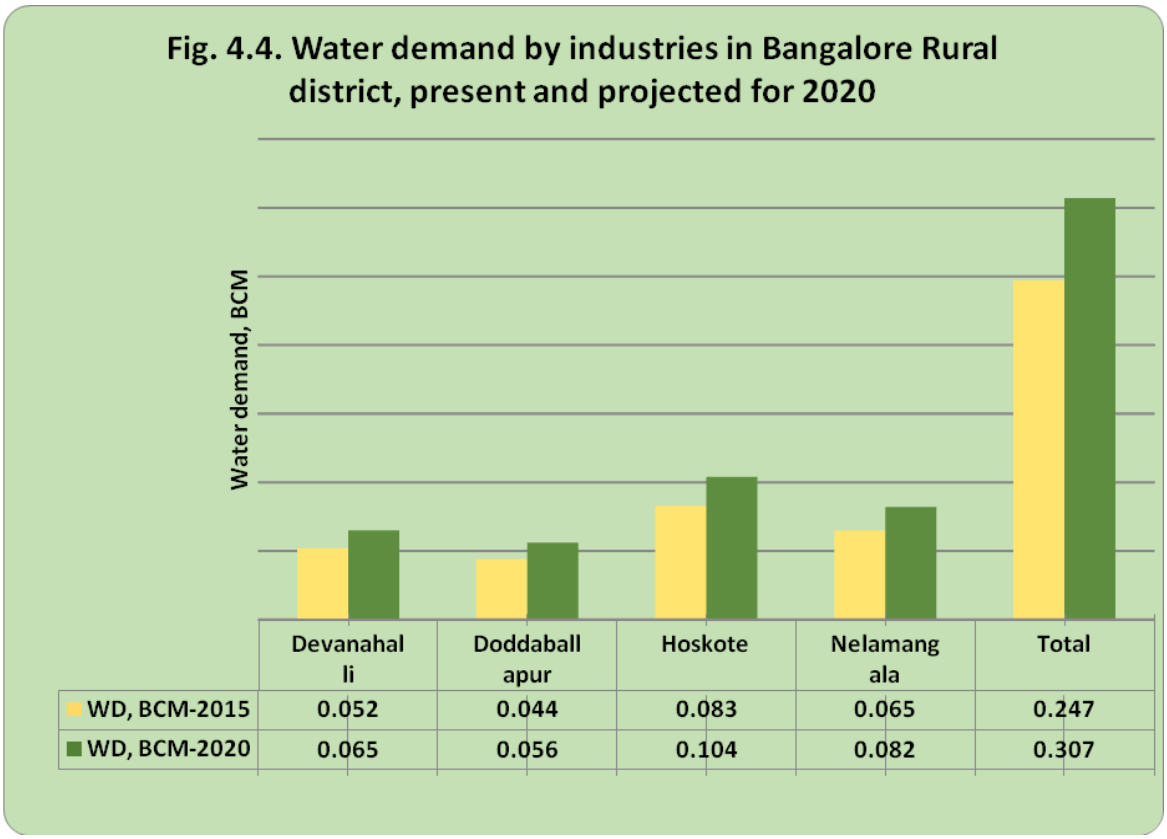
In Bengaluru Rural district, total water demand of 9307 factories/industries at present (2015) is put at 0.244 BCM, whereas the projected water demand for 2020 is 0.307 BCM. The water requirement of industries is more in Hosakote, followed by Nelamangala, Devanahalli and Doddaballapur taluk (Table 4.4, Fig. 4.4).

It is necessary to augment the requirement of fresh water by undertaking wastewater treatment and using it for horticulture, gardening, ash handling, washing of ore, flushing toilets, cleaning, fire-fighting and dust suppression activities**.** The industries must see a merit and an economically value in reusing wastewater for purposes where water quality is not an important criterion. There is need to take up water auditing to understand the complete water use pattern in their operations and look for water saving measures.

Table 4.4 Water demand of Industries (category wise) in Bengaluru Rural district - Present and future demand by 2020

	Taluk	**Water demand, BCM**		
		No of Industries/factories	**2015**	**2020**
1	Devanahalli	1970	0.052	0.065
2	Doddaballapur	1691	0.044	0.056
3	Hosakote	3160	0.083	0.104
4	Nelamangala	2486	0.065	0.082
	Total	**9307**	**0.247**	**0.307**

Here rain water harvesting measures are to be created in the premises of the industries to augment the water demand and also to recharge the bore well.



4.5. Water demand for power generation: No proposal for power generation in the district. There is no new proposal for power generation (Table 4.5).

Table 4.5 Water demand for power generation in Bengaluru Rural district

Block	Name of the power generating unit/ Power requirement	Present Water demand, BCM	Proposed for new power generating unit	Water demand at 2020, BCM
	None		No new proposal	

4.6. Water demand for other public purposes:

Water is also required to be provided in public places like schools, colleges, offices, public toilets, bus station, railway stations, theaters, hostels, hotels, restaurants, hospitals, nursing homes and medical quarters, community hall and all other public places. Here, it is very difficult to work out the water demand for all these places, which require many parameters - number of persons involved in each activity, type facility available, etc. It is assumed that 10% of domestic requirement is considered as water demand for these public places. The water demand for these public places amounted to 0.00488253 BCM in 2015, where as the water demand would be 0.0051508 BCM by 2020 (Table 4.6, Fig. 4.5).

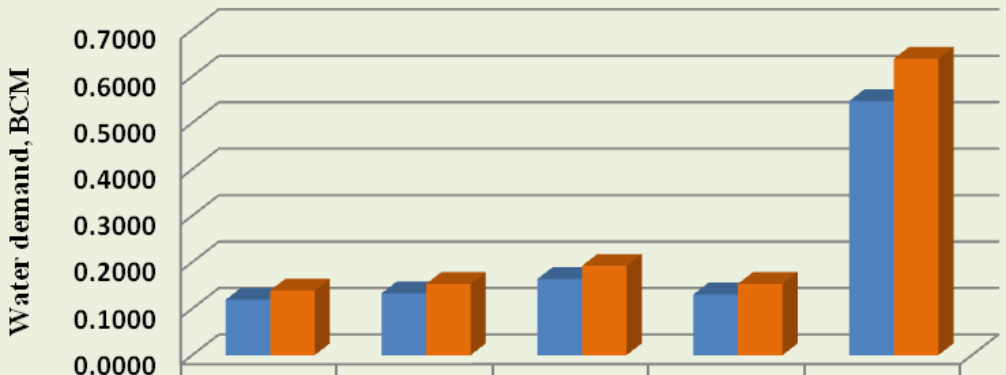
4.7. Total water demand of the district for various sectors:

At present, water demand for all purposes in Bengaluru Rural district is

0.547172 BCM, of which major share goes to water demand for crops

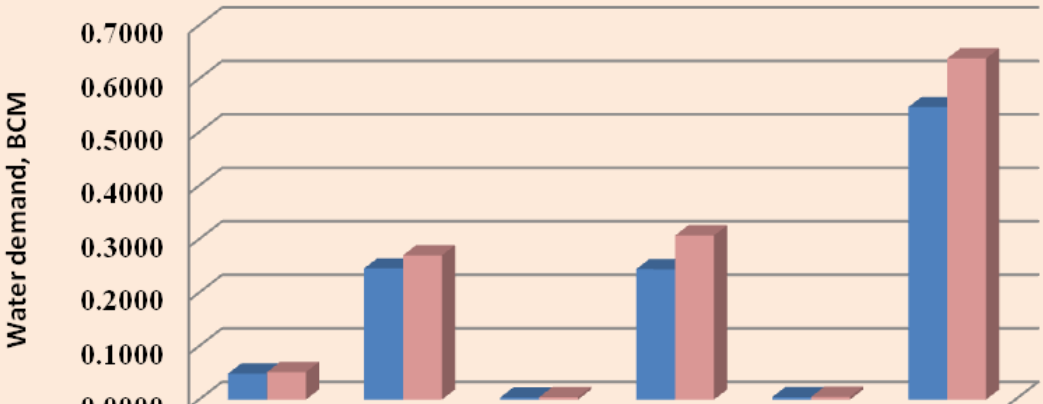
(0.245439 BCM, 44.8%) and industrial use, amounting to 0.244 BCM (44.6%). The next share of water demand is for domestic purpose (8.9%). The water demand of livestock and other purposes is around 1.7% of the total (Table 4.6, Fig. 4.5, 4.6).

Fig. 4.5. Total water demand of various sectors taluk wise in Bengaluru Rural district - 2015 and 2020



	Devanahally	Doddaballapura	Hoskote	Nelamangala	Total
TWD-2005	0.1192	0.1332	0.1641	0.1307	0.5472
TWD-2020	0.1390	0.1532	0.1923	0.1536	0.6381

Fig. 4.6. Total water demand sector wise in Bengaluru Rural district - 2015 and 2020



	Domestic	Crops	Livestock	Industries	Others	Total
TWD-2015	0.0488	0.2454	0.0040	0.2440	0.0049	0.5472
TWD-2020	0.0515	0.2700	0.0045	0.3070	0.0052	0.6381

Water demand for various sectors put together for 2015 is more in Hosakote taluk, followed by Nelamangala and Doddaballapur, while it is lower in Devanahalli taluk. The projected water demand of various sectors for 2020 followed the same trend of 2015 and would be to the tune of 0.638123 BCM.

Table 4.6. Total water demand for various sectors in Bangalore Rural district - present and projected demand for 2020

Taluks	Water demand at present (2015), BCM						
	Domestic	**Crops (Hort. + Field)**	**Livestock**	**Indus-tries**	**Power genera-tion**	**Other public places**	**Total water demand, BCM**
Devanahalli	0.01032912	0.0549539	0.00093045	0.052	0	0.00103291	0.11924638
Doddaballapur	0.01476003	0.0716019	0.00132784	0.044	0	0.00147600	0.13316577
Hosakote	0.01334456	0.065592	0.00081488	0.083	0	0.00133446	0.1640859
Nelamangala	0.01039156	0.053292	0.00095243	0.065	0	0.00103916	0.13067515
Total	**0.04882527**	**0.2454389**	**0.00402559**	**0.244**	**0**	**0.00488253**	**0.54717229**
Taluks	**Water demand for 2020, BCM**						
DEvanahalli	0.011398539	0.060449	0.001041719	0.065	0	0.0011399	0.1390292
Doddaballapur	0.015424455	0.078762	0.001476133	0.056	0	0.0015425	0.1532051
Hosakote	0.013881901	0.072151	0.000902615	0.104	0	0.0013882	0.1923237
Nelamangala	0.010802805	0.058621	0.001060014	0.082	0	0.0010803	0.1535641
Total	0.0515077	0.269984	0.004480481	0.307	0	0.0051508	0.6381230

Assumption - Increase in population is 16%, crops by 10% between 2011 to 2020, livestock by 5% between 2012 to 2020, Industrial use - 26% between 2015 to 2020, Power generation - Not proposed;

4.8. Water budgeting:

Total water available from surface water and groundwater occurring over the territory of Bengaluru Rural district is 0.30264 BCM, of which, water accounted for underground water is 64.1% and surface water available through minor irrigation and lift irrigation is (35.9%) (Table 4.7).

Thus, total water availability for the district from all sources at present is 0.30264 BCM, which is less than the present requirement (2015) of 0.54717 BCM (Table 4.7, Fig. 4.7, 4.8). There is negative amount of water balance

available during 2015, amounting to -0.24453 BCM and during 2020, amounting to -0.33548 BCM. This negative balance has been observed in all taluks and more from Hosakote and Doddaballapur taluks during 2015 as well as for 2020. The effort should be made to encourage water conservation structures to enhance the underground recharge and rejuvenating tanks/lakes by desilting and other means to hold more in tanks/lakes, etc.

Fig. 4.7. Water budgeting in Bengaluru Rural district along with water demand and balance for 2015

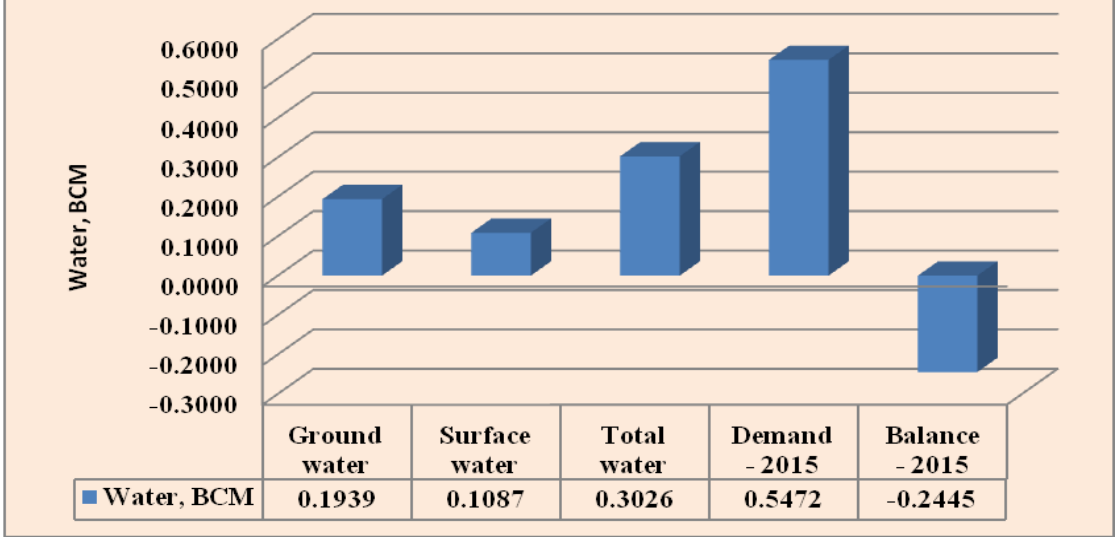


Fig. 4.8. Water budgeting in Bengaluru Rural district along with water demand and balance for 2020

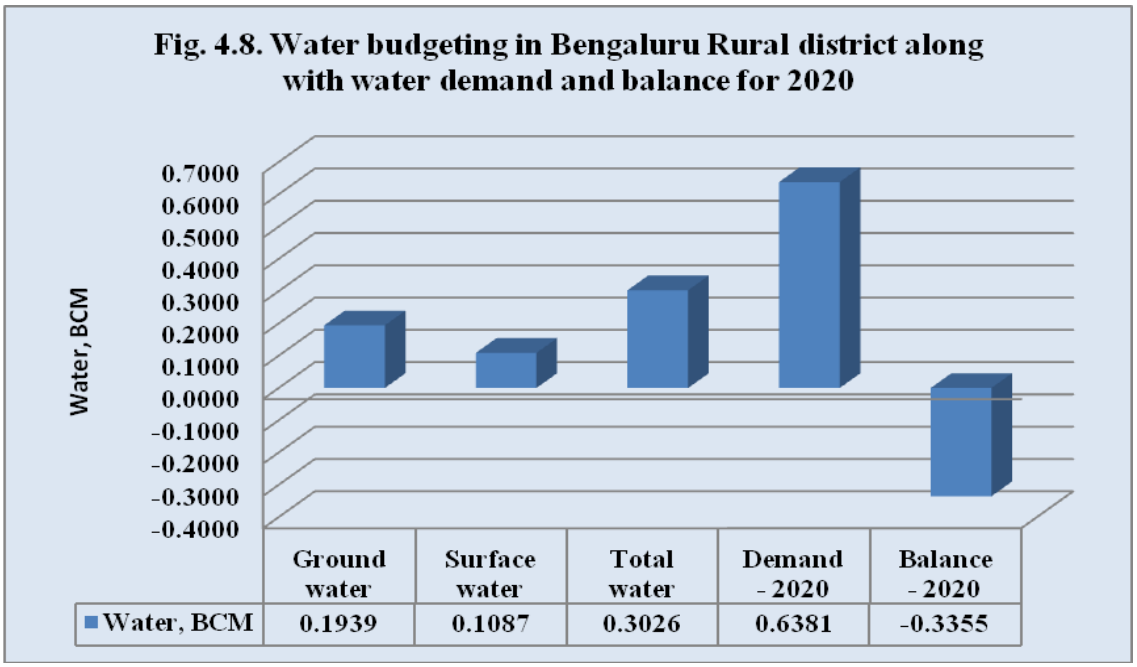


Table 4.7. Water budgeting for Bengaluru Rural district - available, demand and water balance – 2015 and 2020

Taluks	Net underground water available, BCM (CGWB)	Surface water available from various sources	Total water available, BCM - 2015 (Col. 1+2+3)
	1	2	3
Devanahalli	0.04101	0.0174	0.05841
Doddaballapur	0.04973	0.0202	0.06993
Hosakote	0.0434	0.0383	0.0817
Nelamangala	0.0598	0.0328	0.0926
Total	**0.19394**	**0.1087**	**0.30264**

Taluks	Total water demand for various sectors, BCM - 2015	Water balance available after meeting all demand, 2015, BCM	Projected demand, BCM - 2020	Water balance after meeting all demand, 2020, BCM
	4	5	6	7
Devanahalli	0.11925	-0.06084	0.13903	-0.08062
Doddaballapur	0.13317	-0.06324	0.15321	-0.08328
Hosakote	0.16409	-0.08239	0.19232	-0.11062
Nelamangala	0.13068	-0.03808	0.15356	-0.06096
Total	**0.54717**	**-0.24453**	**0.63812**	**-0.33548**

CGWB - Central Ground Water Board, 2008 for Baengaluru Rural district - Net underground water available; tanks (maintained by ZP and Minor Irrigation Departments, treated effluents from STP, lift irrigation)- for details refer Table 3.4

CHAPTER V

STRATEGIC ACTION PLAN FOR IRRIGATION IN BENGALURU RURAL DISTRICT

5.1 Introduction

Bengaluru Rural district was separated out of erstwhile Bangalore district, as Bangalore city was growing at enormous rate and it was necessary to segregate the problems faced by rural taluks and address them more effectively. Presently, Bengaluru Rural district comprises of four taluks namely, Devanahalli, Doddaballapur, Nelmangala and Hosakote. All of them are surrounded by Bengaluru Urban district and are very heavily influenced by fast urbanization of Bengaluru City. Most common characters of the district include eroding interest of the farmers to cultivate the land due to rising prices of land coupled with high demand for various non-agricultural uses like housing, industries. The cultivated land is reducing at faster rate and cultivation is over dominated by cultivation of vegetables, having persistent demand in nearby Bangalore market. Bangalore (rural) district is also dominated by flower cultivation due to availability of international flower auction centre. Dominant presence of hi tech agriculture with net houses, green houses and other forms of protected cultivation is found in all four taluks of Bengaluru Rural District.

Water resources of Bengaluru Rural district are very heavily influenced by high demand for domestic needs. Unfortunately, the district has no dependable perennial water resource to satisfy the increasing demand for water. In this back ground, the water demands of Bengaluru Rural district must be analyzed in manner fully different than other districts of the state. The district is unjustifyingly dependent on already over exploited underground resource. In absence of command area in the district (in the form of dams) agriculture

should invariably depend on rainfall and harvesting of rain water and try to reduce dependence on use of underground water. The present plan is developed considering all these aspects as well as challenges to be faced in the next five years due to ever increasing demand for water by domestic/ industrial sector.

The use of treated sewage water for agriculture and deteriorating quality of water are couple of other issues which need consideration. The release of untreated sewage/ industrial effluent has polluted many flowing water resources in the district and using such water for irrigation has resulted into number of health related issues, besides affecting the soil health. However, use of treated sewage could be encouraged, but will cost very heavily. There is an excellent scope to harvest surface flown rain water by various water harvesting structures (like tanks, farm ponds, check dams etc) - offering long term sustainable solutions. The focus in the present district plan is on creating such infrastructure to strengthen the water conservation through water shed activities.

Table No. 5.1. STRATEGIC ACTION PLAN FOR DEVANAHALLI TALUK

Concerned Ministry / Dept.	Component	Activity	Total number /capacity (cum)	Command Area/ Irrigation Potential (Ha)	Estimated cost/Year wise requirement of funds (Rs. in Lakhs)					
					1st Year	2nd Year	3rd Year	4th Year	5th Year	Total
		Minor Irrigation								
AIBP		Improvement of bund, feeder channel, nala PRED	72	1188	830	830	830	830	830	4150
		Construction of check dams – MI Dept	28	516	516	516	516	516	516	2580
MoWR	Har Khet ko pani	Lift irrigation from Thattamachanahalli Aminkere to fill tanks	30 mcft	1882	3200	3200	3200	3200	3200	16000
		Minor irrigation tanks proposed and tanks filling from Yetina Hole Project	11 mcft	336	1000	1000	1000	1000	1000	5000
		Improvements proposed in subsidiary of South Pennar and Arkavathi Basins	187 mcft	-	450	450	450	450	450	2250
			23 mcft		52	52	52	52	52	260
		Renovation/improvement of tanks including desilting	14/200	1871	838	838	838	838	838	4190

MOA&FW DAC & FW	PDMC (MI)	DPAP DRIP horticulture	4000	4000	520	520	520	520	520	2600
		DPAP sprinkler Agriculture	2050	2050	74	74	74	74	73	369
			Supplementary water management activities: drought proofing through water harvesting structures							
MOA&FW DAC&FW	PDMC Supplementary WHS				**Newly created WHS**					
		Farm pond	1050	2100	183	183	183	183	182	914
		Check Dams	43	129	39	39	39	39	38	194
		Nallah Bunds	12	54	12	12	12	12	12	60
		Gokatte	30	-	15	15	15	15	15	75
		Rubble checks	248	-	2	2	2	2		8
		Percolation tanks	10	-	9	9	9	9	9	45
		Recharge pits	330	-	19	19	19	19	19	95
		Agro-forestry – bund planting	570	-	8	8	8	8	6	38
		Trench cum bund	642	-	39	39	39	38	38	193
		Multi arch check dams	8	8	5					0
Total				**14134**	**7806**	**7806**	**7806**	**7805**	**7798**	**39021**

Note: Numbers of water harvesting structures (farm ponds, check dams and percolation tank) and their costs proposed in the plan are according to the information supplied by JDA, Bengaluru Rural

Fig 5.1: Component wise irrigated area to be created in **Devanahalli Taluk (ha)**

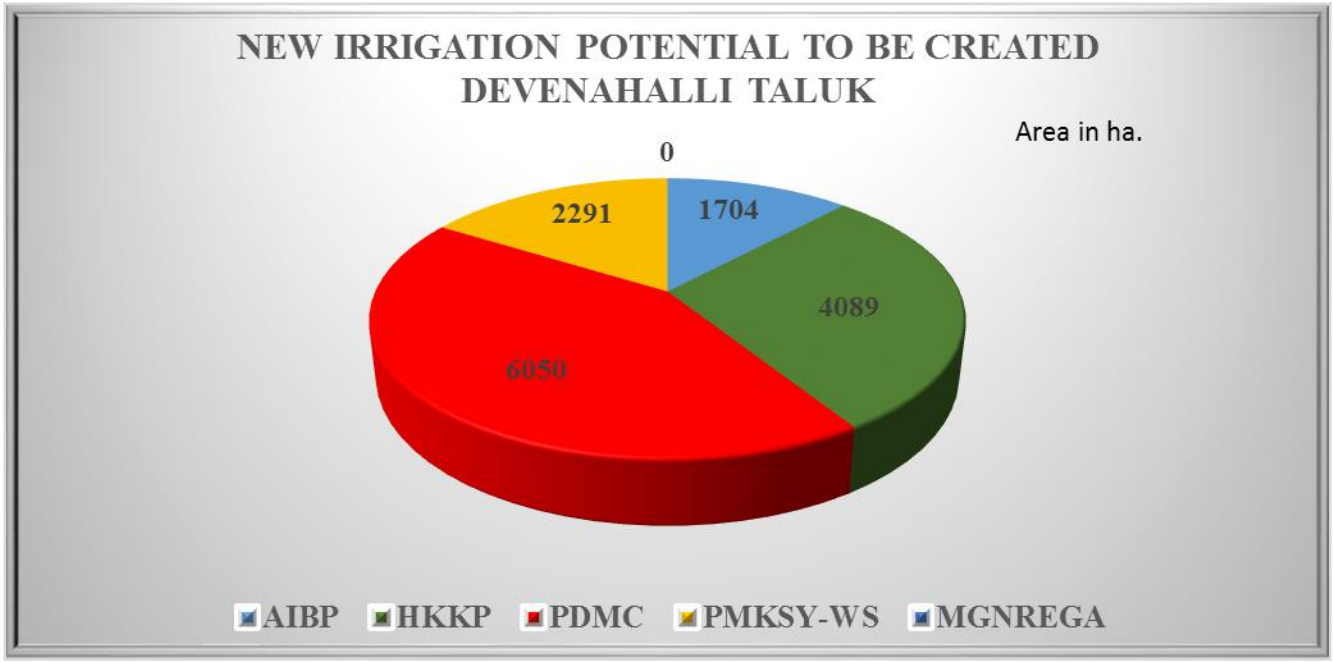
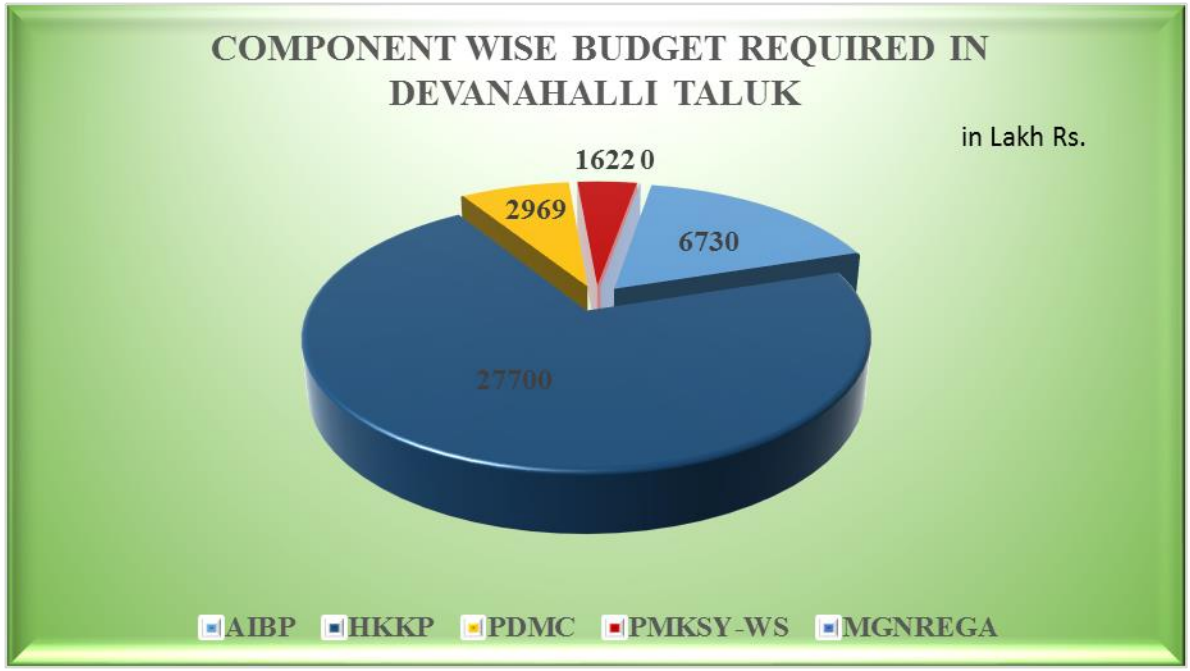


Fig 5.2: Component wise Budget required in Devanahalli Taluk (lakh Rs)



\

Table No. 5.2. STRATEGIC ACTION PLAN FOR DODDABALLAPUR TALUK

Concerned Ministry / Dept.	Component	Activity	Total number/capacity (cum)	Command Area/ Irrigation Potential (Ha)	Estimated cost/Year wise requirement of funds (Rs. in Lakhs)					
					1st Year	2nd Year	3rd Year	4th Year	5th Year	Total
		Minor Irrigation								
MoWR	AIBP	Check Dams / PRED	110	1100	218	218	218	218	218	1090
		Desilting of tanks- PRED	161	1823	1135	1135	1135	1134	1134	5673
MoWR	AIBP	Improvement of bund, feeder channal, nala and other works	161	-	334	334	333	333	333	1667
		Construction of check dams- MI Dept.	31	574	680	680	680	680	680	3400
MoWR	Har Khet ko pani	Lift irrigation from Byramangala Reservoir	100 mcft	2941	5000	5000	5000	5000	5000	25000
		Minor irrigation tanks – filling of the tanks from Yetina Hole	7 mcft	76	400	400	400	400	400	2000
		Improvement proposed in subsidiary of North Pennar and Arkavathi Basin	155	-	740	740	740	740	740	3700
			102		490	490	490	490	490	2450

		Renovation/ improvement of tank including desilting	39/815	3621	1123	1123	1123	1123	1123	5615
MOA & FW DAC & FW	PDMC Micro irrigation	DPAP Drip- HRT	4100	4100	533	533	533	533	533	2665
		DPAP Sprinkler Agri	4550	4550	164	164	164	164	163	819
MOA&FW DAC&FW	PMKSY Watershed		**Newly created WHS**							
		Farm pond	1055	2110	184	184	184	183	183	918
		Check Dams	54	162	49	49	49	48	48	243
		Nallah Bunds	38	190	38	38	38	38	38	190
		Percolation Tanks	19	-	18	17	17	17	17	86
		Gokatte	46	-	23	23	23	23	23	115
		Rubble checks	801	-	6	5	5	5	5	26
DORD-MORD	Convergence with MGNREGA		**Newly created**							
		Recharge pits	366		22	21	21	21	21	106
		Trench cum bunds	1046	-	63	63	63	63	62	314
		Multi arch check dams	33	33	29	29	29	29	28	144
		Dry land horticulture	101	-	9	9	9	9	9	45

		Agro forestry – bund planting	1184	-	16	16	16	15	15	78
Total				**21280**	**11274**	**11271**	**11270**	**11266**	**11263**	**56344**

Note: Numbers of water harvesting structures(farm ponds, check dams and percolation tank) and their costs proposed in the plan are according to the information supplied by JDA, Bengaluru rural

Fig 5.3: Component wise irrigated area to be created in Doddaballapur Taluk (ha)

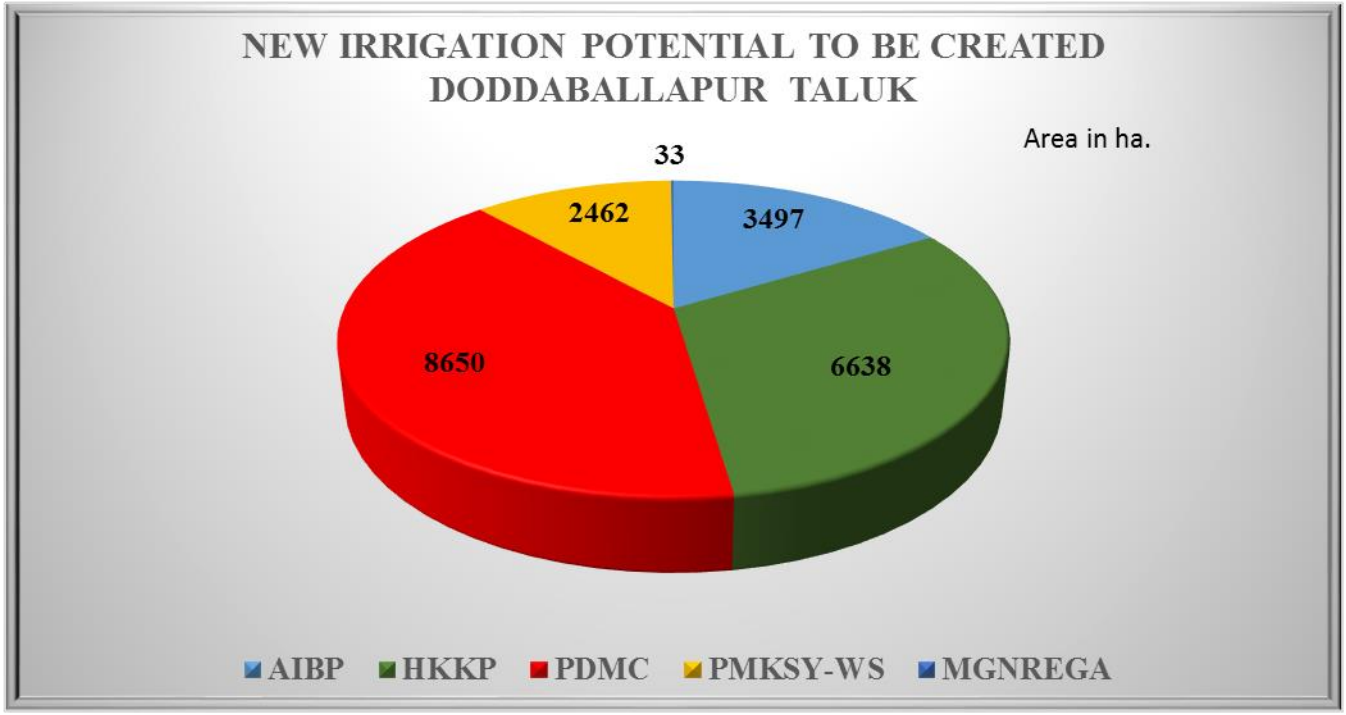


Fig 5.4: Component wise budget required in Doddaballapur Taluk (lakh Rs)

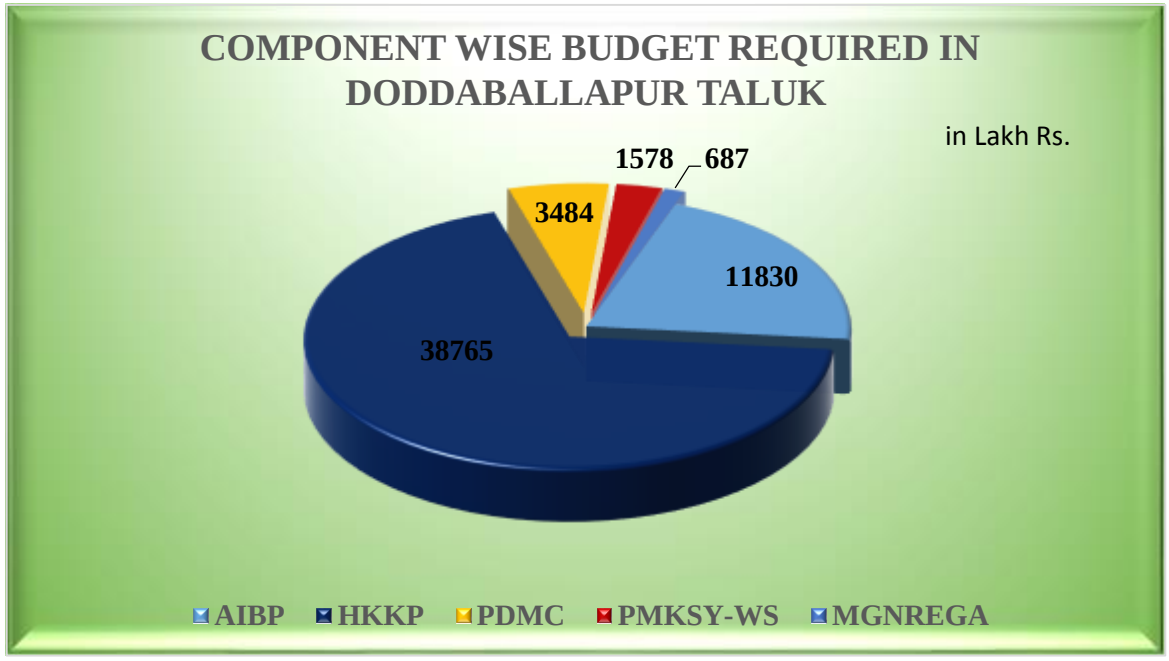


Table No. 5.3. STRATEGIC ACTION PLAN FOR NELAMANGALA TALUK

Concerned Ministry / Dept.	Component	Activity	Total number/ capacity (cum)	Command Area/ Irrigation Potential (Ha)	Estimated cost/Year wise requirement of funds (Rs. in Lakhs)					
					1st Year	2nd Year	3rd Year	4th Year	5th Year	Total
		Minor Irrigation								
AIBP		Check Dams PRED	81	810	183	183	182	182	182	912
		Construction of check dams MI dept.	29	490	490	490	490	490	490	2450
		Desilting of tanks PRED	180	2070	4614	4614	4615	4615	4614	23072
		Improvement of bunds, feeder channels, nalas PRED	180	-	452	452	452	452	452	2260
MoWR	Har Khet ko pani	Lift irrigation from Byramangala Reservoir	100 mcft	2941	5000	5000	5000	5000	5000	25000
		MI tanks proposed and	2 mcft	7	24	24	24	24	24	120

		tank filling from Yetina Hole Project								
		Improvements proposed in subsidiary of North Pennar, Shimsha and Arkavathi basins	16 198 16	-	240	240	240	240	240	1200
					580	580	580	580	580	2900
					15	15	15	15	15	75
		Renovation/improvement of tanks including desilting	21/238	1755	595	595	595	595	595	2975
MOA&FWDAC & FW PDMC (MI)		DPAP DRIP horticulture	3900	2900	507	507	507	507	507	2535
		DPAP sprinkler Agriculture	1750	1750	63	63	63	63	63	315
MOA&FW DAC&FW	PMKSY Watershed	**Newly created WHS**								
		Farm pond	1206	2412	210	210	210	210	209	1049
		Check Dams	51	153	46	46	46	46	46	230
		Nallah Bunds	34	170	34	34	34	34	34	170
		Percolation Tanks	15	-	14	14	14	13	13	68
		Gokatte	43	-	22	22	22	21	21	108
		Rubble check	800	-	5	5	5	5	6	26

DORD-MORD	Convergence with MGNREGA	**Newly created**								
		Recharge pits	354		22	21	21	21	21	106
		Trench cum bund	1046		63	63	63	63	62	314
		Multi-arch dam		30	26	26	26	26	26	130
		Dry land horticulture	199		9	9	9	9	8	44
		Agro-forestry-bund planting	1183		16	16	16	15	15	78
Total				**15488**	**13230**	**13229**	**13229**	**13226**	**13202**	**66137**

Note: Numbers of water harvesting structures (farm ponds, check dams and percolation tank) and their costs proposed in the plan are according to the information supplied by JDA, Bengaluru rural

Fig 5.5: Component wise irrigated area to be created in Nelamangala Taluk (ha)

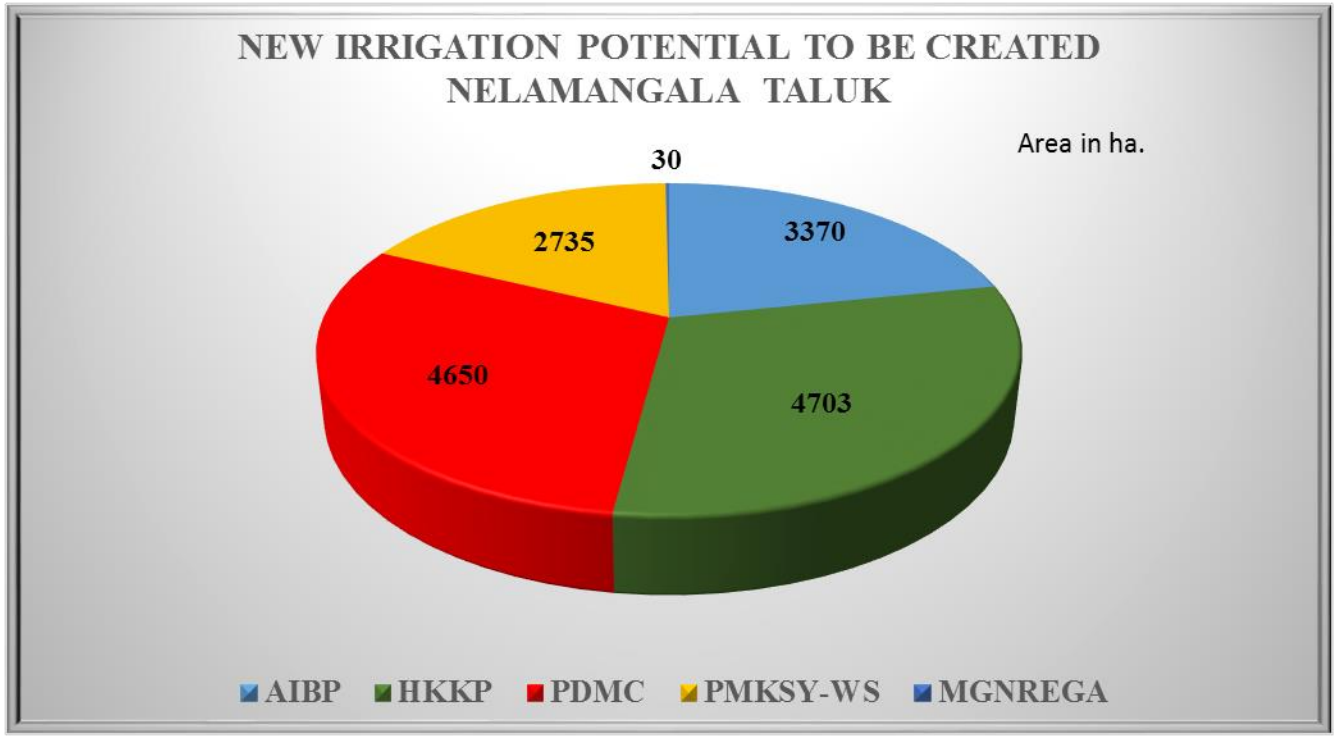


Fig 5.6: Component wise budget required in Nelamangala Taluk(lakh Rs)

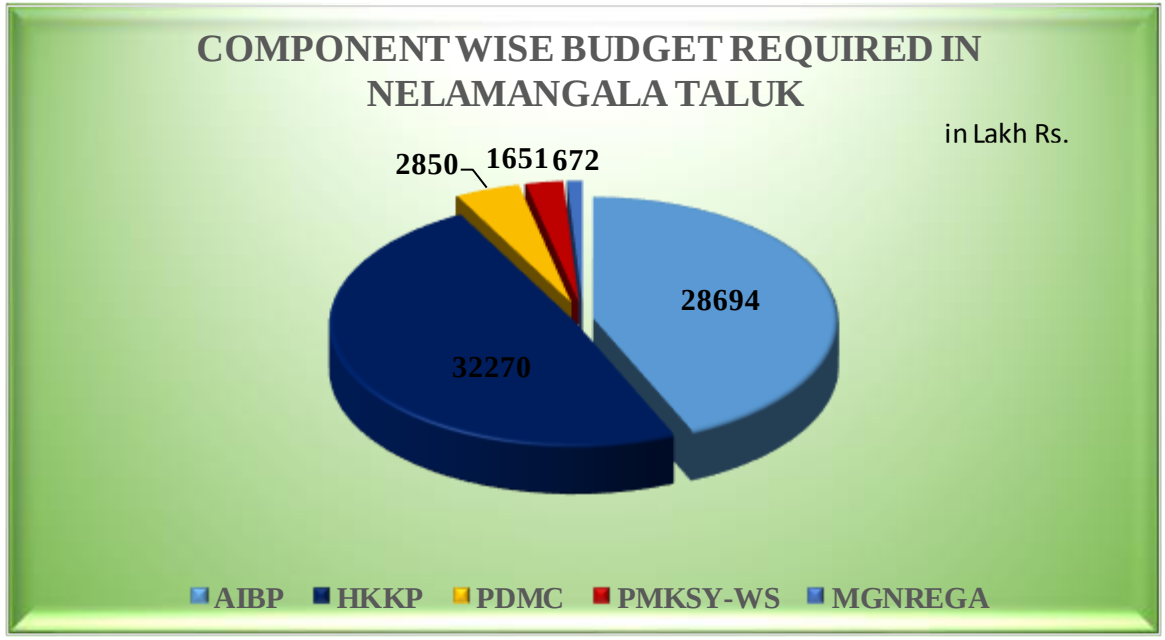


Table 5.4 : STRATEGIC ACTION PLAN FOR HOSAKOTE TALUK

Concerned Ministry / Dept.	Component	Activity	Total number/capacity (cum)	Command Area/ Irrigation Potential (Ha)	Estimated cost/Year wise requirement of funds (Rs. in Lakhs)					
					1st Year	2nd Year	3rd Year	4th Year	5th Year	Total
AIBP		**Minor Irrigation**								
		Check Dams PRED	167	1670	517	517	517	517	516	2584
		Construction of check dams MI dept.	19	340	340	340	340	340	340	1700
		Improvement of bunds, feeder channels, nala, PRED	167	-	1240	1240	1240	1238	1238	6196
		Desilting of tanks PRED	167	2654	5364	5364	5364	5364	5364	26820
MoWR	Har Khet ko pani	Providing lift Irrigation from Samethanahalli to fill tanks	29 mcft	890	1500	1500	1500	1500	1500	7500
		Providing lift Irrigation from	40 mcft	2118	3600	3600	3600	3600	3600	18000

		Amanidoddikere to fill tanks								
		MI tanks proposed and tank filling from Yetnahole	26 mcft	648	3000	3000	3000	3000	3000	15000
		Improvement proposed in subsidiary of South Pennar and Palar basins	440 mcft	-	720	720	720	720	720	3600
			30 mcft		22	22	22	22	22	110
		Renovation/improvement to tanks including desilting	24/1253	2493	657	657	657	657	657	3285
MOA&FWDAC & FW PDMC (MI)		DPAP DRIP horticulture	4000	4000	520	520	520	520	520	2600
		DPAP sprinkler Agriculture	2650	2650	95	95	95	95	95	475
MOA&FW DAC&FW	PMKSY Watershed	**Newly created WHS**								
		Farm pond	1060	2120	185	185	184	184	184	922
		Check Dams	53	159	48	48	48	48	47	239
		Nallah Bunds	36	180	36	36	36	36	36	180
		Percolation Tanks	17	-	16	16	15	15	15	77

		Gokatte	44	-	22	22	22	22	22	110
		Rubble check	800	-	5	5	5	5	6	26
DORD-MORD	Convergence with MGNREGA	**Newly created**								
		Recharge pits	366		22	21	21	21	21	106
		Trench cum bunds:	1046		63	63	63	63	62	314
		Multi-arch check dam	32	32	28	28	28	28	27	139
		Dry land horticulture	100		9	9	9	9	9	45
		Agro forestry	1181		16	16	16	15	15	78
Total				**19954**	**18025**	**18024**	**18022**	**18019**	**18016**	**90106**

Note: Numbers of water harvesting structures(farm ponds, check dams and percolation tank) and their costs proposed in the plan are according to the information supplied by JDA, Bengaluru rural

Fig 5.7: Component wise irrigated area to be created in Hosakote Taluk

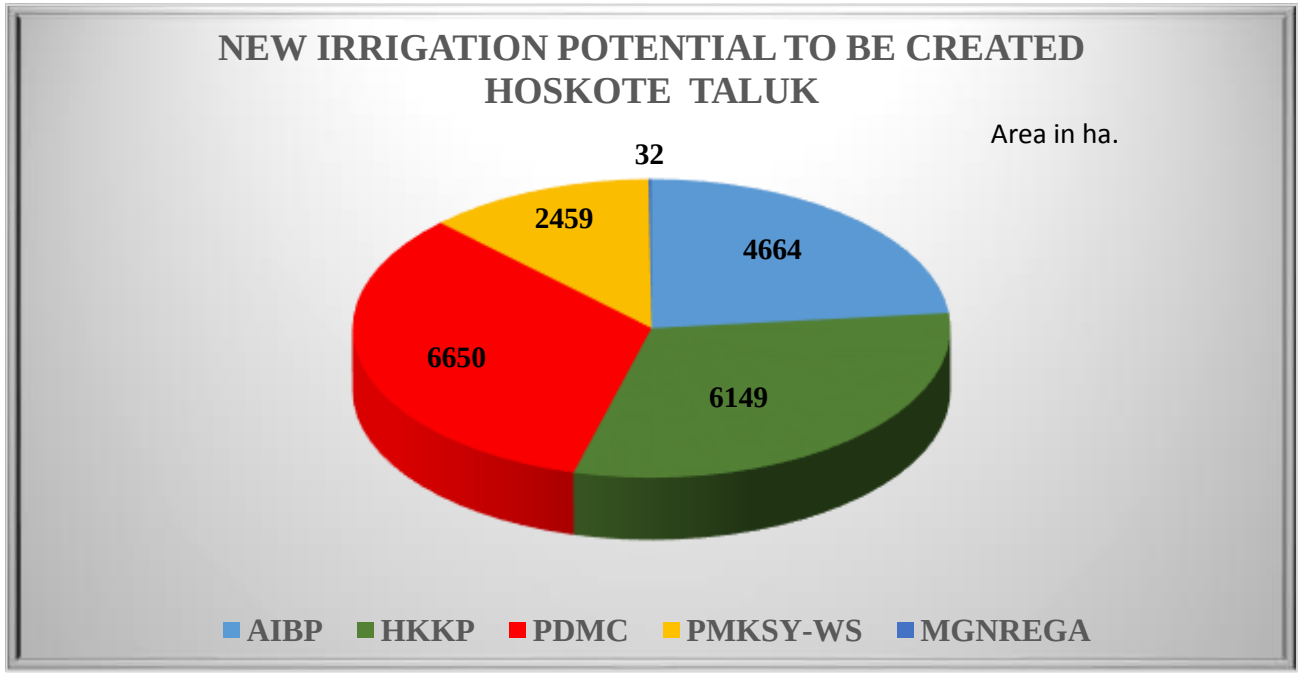
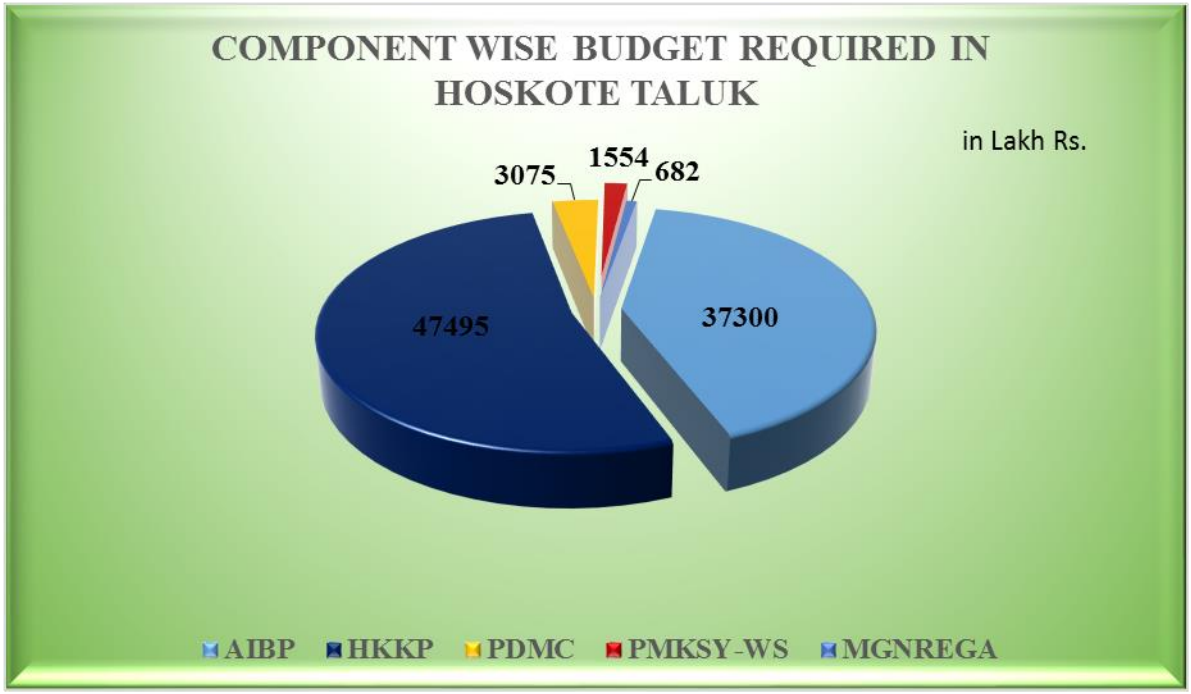


Fig 5.8: Component wise budget required in Hosakote Taluk (lakh Rs)



STRATEGIC ACTION PLAN FOR BENGALURU RURAL DISTRICT

Table 5.5: District irrigation plan - AIBP works

Sl. No	Name of the Blocks/sub Districts	Concerned Ministry/ Department	Activity	Total Number/ Capacity (cum)	Command Area/Irrigation Potential (Ha)	Estimated cost/Year wise funds required (in lakh Rs.)					
						I	II	*III*	IV	V	Total
	Minor irrigation										
	D.Ballapura	MoWR	Check dams PRED	110	1100	218	218	218	218	218	1090
	Nelamangala			81	810	183	183	182	182	182	912
	Hosakote			167	1670	517	517	517	517	516	2584
	Devanahalli		Surface Minor irrigation/ ground water development (Minor irrigation department) Construction of check dams	28	516	516	516	516	516	516	2580
	D.Ballapura			31	574	680	680	680	680	680	3400
	Nelamangala			29	490	490	490	490	490	490	2450
	Hosakote			19	340	340	340	340	340	340	1700
	D.Ballapura	MoW	Desilting of	161	1823	1135	1135	1135	1134	1134	5673

	Nelamangala	R	tanks (PRED)	180	2070	4615	4615	4615	4614	4613	23072
	Hosakote			167	2654	5364	5364	5364	5364	5364	26820
	D.Ballapura		Improvement of bund, feeder channel, nala improvement/other works PRED	161	-	334	334	333	333	333	1667
	Nelamangala			180	-	452	452	452	452	452	2260
	Hosakote			167	-	1240	1240	1239	1239	1238	6196
	Devanahalli		Improvement of bund, feeder channel, nala improvement/other works PRED	72	1188	830	830	830	830	830	4150
	TOTAL			1553	**13235**	**16914**	**16914**	**16911**	**16909**	**16906**	**84554**

Table 5.6 : District irrigation plan - HAR KHET KO PANI

Sl. No	Name of the Blocks/sub Districts	Concerned Ministry/ Department	Activity	Total Number/ Capacity (cum)	Command Area/Irrigation Potential (Ha)	Estimated cost/Year wise funds required (in lakh Rs.)					
						I	II	III	IV	V	Total
4.1	Devanahalli	MoWR	Providing lift irrigation from Thattamachanahalli Aminkere to fill tanks in Devanahalli taluk	30 Mcft	1882	3200	3200	3200	3200	3200	16000
4.2	D.Ballapura Nelamangala		Providing lift irrigation from Byramangala reservoir to fill tanks in Nelamangala and D'pur taluks	200 M cft	5882	10000	10000	10000	10000	10000	50000
4.3	Hosakote		Providing lift irrigation from Samethanahalli to fill tanks in Hosakote taluk	29 Mcft	890	1500	1500	1500	1500	1500	7500
			Providing lift irrigation from Hosakote Amani Doddikere to fill tanks	40 Mcft	2118	3600	3600	3600	3600	3600	18000

			in Sulibele and Nandagudi								
			TOTAL	**299 Mcft**	**10772**	**18300**	**18300**	**18300**	**18300**	**18300**	**91500**
	Devanahalli		Minor irrigation tanks proposed to meet drinking water and tank filling from Yettinhole project in respective taluks	11 M cft	336	1000	1000	1000	1000	1000	5000
	D.Ballapura			7 M cft	76	400	400	400	400	400	2000
	Nelamangala			2 M cft	7	24	24	24	24	24	120
	Hosakote	**MoWR**		26 M cft	648	3000	3000	3000	3000	3000	15000
			TOTAL	**46**	**1067**	**4424**	**4424**	**4424**	**4424**	**4424**	**22120**
	Devanahalli		Improvements proposed in subsidiaries of S.Pennar and Arkavathy basins	186.9 (Mcft)	-	450	450	450	450	450	2250
				22.64 (Mcft)		52	52	52	52	52	260
	D.Ballapura		Improvements proposed in subsidiaries of N Pennar and Arkavathy basins	155 (Mcft)	-	740	740	740	740	740	3700
				102 (Mcft)		490	490	490	490	490	2450
	Nelamangala	**MoWR**	Improvements proposed in	198 (Mcft)	-	580	580	580	580	580	2900

			subsidiaries of N Pennar, Shimsha and Arkavathy basins	16 (Mcft)		240	240	240	240	240	1200
				16 (Mcft)		15	15	15	15	15	75
	Hosakote		Improvements proposed in subsidiaries of S Pennar and Palar basins	440 (M cft)	-	720	720	720	720	720	3600
				30 (M cft)		22	22	22	22	22	110
			TOTAL	**1266**		**3309**	**3309**	**3309**	**3309**	**3309**	**16545**
	Devanahalli	MoWR	Renovation and improvements to tanks including desilting of water bodies	14/ 800	1871	838	838	838	838	838	4190
	Doddaballapur			39/ 815	3621	1123	1123	1123	1123	1123	5615
	Nelamangala			21/ 238	1755	595	595	595	595	595	2975
	Hosakote			24/ 1253	2493	657	657	657	657	657	3285
			Total	**98/ 3106**	**9740**	**3213**	**3213**	**3213**	**3213**	**3213**	**16065**
	GRAND TOTAL				**21579**	**29246**	**29246**	**29246**	**29246**	**29246**	**146230**

Table 5.7 : District irrigation plan – Per drop more crop-micro irrigation

Sl. No	Name of the Blocks/sub Districts	Concerned Ministry/ Department	Activity	Total Number/ Capacity (cum)	Command Area/Irrigation Potential (Ha)	Estimated cost/Year wise funds required (in lakh Rs.)					
						I	II	III	IV	V	Total
9	Devanahalli	MOA&F WDAC& FW	DPAP Drip-HRT	4000	4000	520	520	520	520	520	2600
	D.Ballapura		DPAP Drip HRT	4100	4100	533	533	533	533	533	2665
	Nelamangala		DPAP Drip HRT	3900	3900	507	507	507	507	507	2535
	Hosakote		DPAP Drip HRT	4000	4000	520	520	520	520	520	2600
			TOTAL	**16000**	**16000**	**2080**	**2080**	**2080**	**2080**	**2080**	**10400**
10	Devanahalli	MOA&F WDAC& FW	DPAP Sprinkler	2050	2050	74	74	74	74	73	369
	D.Ballapura			4550	4550	164	164	164	164	163	819
	Nelamangala			1750	1750	63	63	63	63	63	315
	Hosakote			2650	2650	96	96	96	95	94	477
			TOTAL	**11000**	**11000**	**397**	**397**	**397**	**396**	**393**	**1980**
		Supplementary water management activities – drought proofing through water harvesting structures **NEWLY CREATED WHS**									
	Devanahall**i**	MOA&F WDAC& FW	Farm ponds	1050	2100	183	183	183	183	182	914
			Check dams	`43	129	39	39	39	39	38	194
			Nala bunds	12	54	12	12	12	12	12	60
			Gokatte	30	-	15	15	15	15	15	75

			Rubble check	248	-	2	2	2	1	1	8
			Percolation tanks	10	-	9	9	9	9	9	45
	Devanahalli	MOA&F WDAC& FW	Recharge pits	330	0	19	19	19	19	19	95
			Trench cum bund with w/w	642	0	39	39	39	38	38	193
			Multi arch check dams	8	8	0	0	0	0	0	0
			Agroforestry (bund planting)	570	0	8	8	8	7	7	38
			TOTAL	**2900**	**2291**	**326**	**326**	**326**	**323**	**321**	**1622**
	GRAND TOTAL			**29900**	**29291**	**2803**	**2803**	**2803**	**2799**	**2794**	**14002**

Table 5.8 : District irrigation plan- PMKSY water shed

Sl. No	Name of the Blocks/sub Districts	Ministry/ Department	Activity	Total Number /Capacity (cum)	Irrigating Potential (Ha)	Estimated cost/Year wise funds required (in lakh Rs.)					
						I	II	III	IV	V	Total
17.1	D.ballapura	DOLR-MORD	Farm ponds	1055	2110	184	184	184	183	183	918
	Nelamangala			1206	2412	210	210	210	210	209	1049
	Hosakote			1060	2120	185	185	184	184	184	922
17.2	D.ballapura		Check dams	54	162	49	49	49	48	48	243
	Nelamangala			51	153	46	46	46	46	46	230
	Hosakote			53	159	48	48	48	48	47	239
17.3	D.ballapura		Nala bund	38	190	38	38	38	38	38	190
	Nelamangala			34	170	34	34	34	34	34	170
	Hosakote			36	180	36	36	36	36	36	180
17.4	D.ballapura		Pecolation tanks	19	-	18	17	17	17	17	86
	Nelamangala			15	-	14	14	14	13	13	68

	Hosakote			17	-	16	16	15	15	15	77
17.5	D.ballapura		Gokatte	46	-	23	23	23	23	23	115
	Nelamangala			43	-	22	22	22	21	21	108
	Hosakote			44	-	22	22	22	22	22	110
	D.ballapura		Rubble Check	801	-	6	5	5	5	5	26
	Nelamangala			800	-	6	5	5	5	5	26
	Hosakote			800	-	6	5	5	5	5	26
TOTAL				**6172**	**7656**	**963**	**959**	**957**	**953**	**951**	**4783**

Table 5.9 : District Irrigation Plan: Convergence with MGNREGA

Sl. No	Name of the Blocks/sub Districts	Concerned Ministry/ Department	Activity	Total Number/ Capacity (cum)	Command Area/Irrigation Potential (Ha)	Estimated cost/Year wise funds required (in lakh Rs.)					
						I	II	III	IV	V	Total
19.1	D.Ballapura	DORD-MORD	Recharge Pits	366	-	22	21	21	21	21	106
	Nelamangala			364	-	22	21	21	21	21	106
	Hosakote			366	-	22	21	21	21	21	106
19.2	D.Ballapura		Trench cum bund	1046		63	63	63	63	62	314
	Nelamangala			1046		63	63	63	63	62	314
	Hosakote			1046		63	63	63	63	62	314
19.3	D.Ballapura		Multi arch Check dam	33	33	29	29	29	29	28	144
	Nelamangal			30	30	26	26	26	26	26	130
	Hosakote			32	32	28	28	28	28	27	139
	D.Ballapura	DORD-MORD	Dry land horticulture	101	-	9	9	9	9	9	45
	Nelamangal			99	-	9	9	9	9	8	44
	Hosakote			100	-	9	9	9	9	9	45
	D.ballapura	DORD-	Agro forestry-	1184	-	16	16	16	15	15	78

	Nelamangala	MORD	bund planting	1183	-	16	16	16	15	15	78
	Hosakote			1181	-	16	16	16	15	15	78
Total				**8177**	**95**	**413**	**410**	**407**	**407**	**401**	**2041**

FINAL ABSTRACT OF BENGALURU RURAL DISTRICT IRRIGATION PLAN

Table 5.10 NEW IRRIGATION POTENTIAL TO BE CREATED

(in hectares)

Taluks	DVHL	DBLPR	NLML	HSKT	TOTAL
AIBP	1704	3497	3370	4664	**13235**
HKKP	4089	6638	4703	6149	**21579**
PDMC	6050	8650	4650	6650	**26000**
PMKSY-WS	2291	2462	2735	2459	**9947**
MGNAREGA	-	33	30	32	**95**
TOTAL	**14134**	**21280**	**15488**	**19954**	**70856**

Fig 5.9

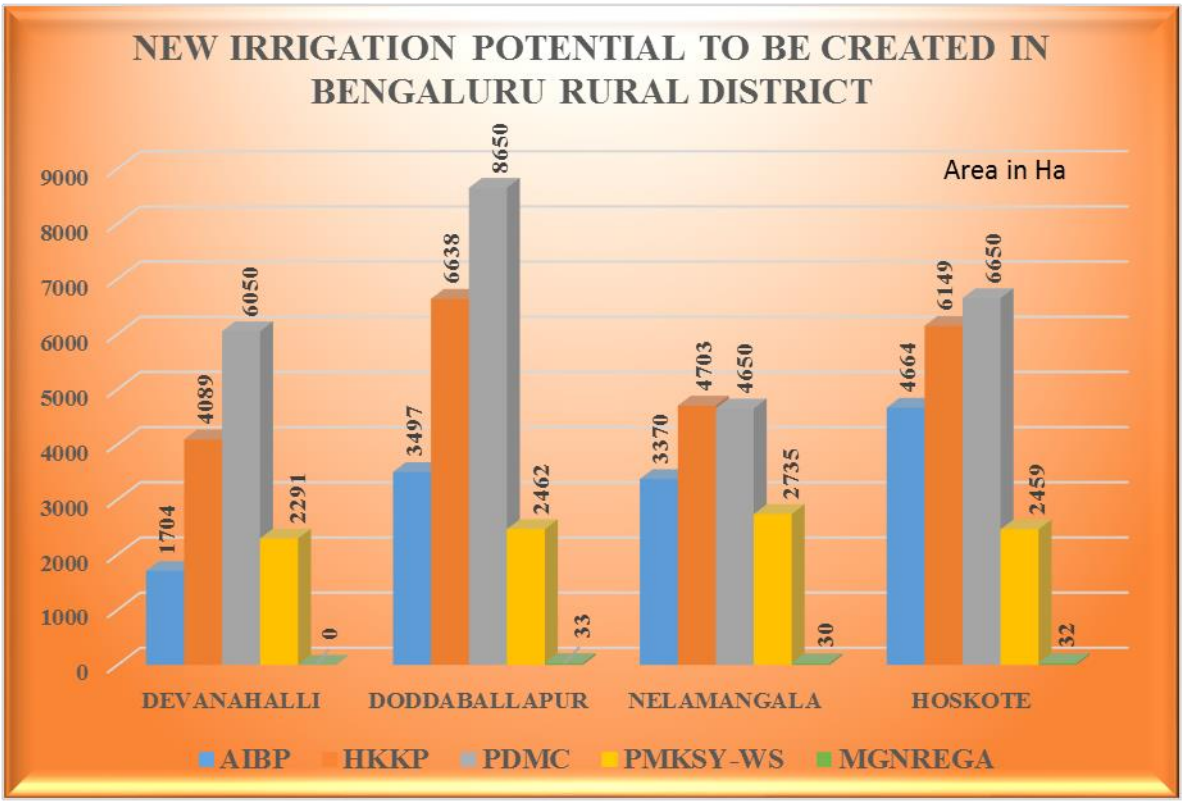


Table 5.11 : BUDGET REQUIREMENT (in lakh Rs)

Taluks	DVHL	DBLPR	NLML	HSKT	TOTAL
AIBP	6730	11830	28694	37300	**84554**
HKKP	27700	38765	32270	47495	**146230**
PDMC	2969	3484	2850	3075	**12378**
PMKSY-WS	1622	1578	1651	1554	**6405**
MGNREGA	-	687	672	682	**2041**
TOTAL	39021	56344	66137	90106	**251608**

Fig 5.10

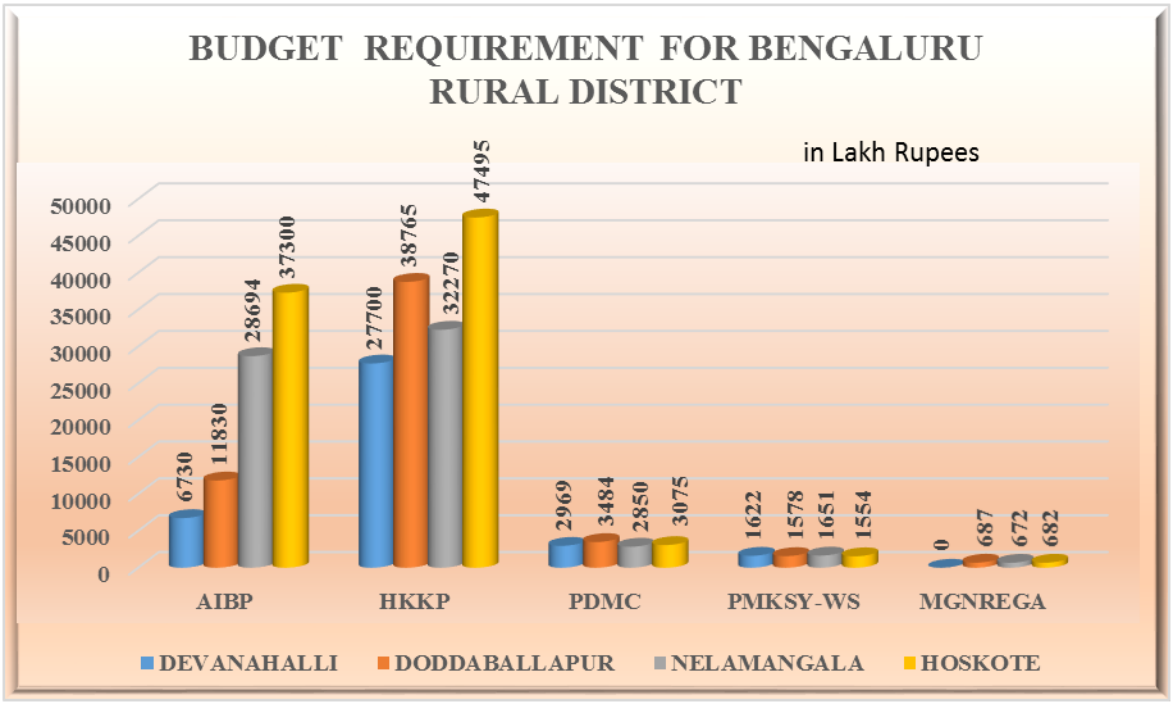


Table 5.12. DISTRICT ABSTRACT-BUDGET-TALUK & YEAR WISE

in Lakh Rupees

Sl. No.	Year	Devanahalli	Doddaballapur	Nelamangala	Hosakote	Total
1	I	7806	11274	13230	18025	**50335**
2	II	7806	11271	13229	18024	**50330**
3	III	7806	11270	13229	18022	**50327**
4	IV	7805	11266	13226	18019	**50316**
5	V	7798	11263	13223	18016	**50300**
Total		**39021**	**56344**	**66137**	**90106**	**251608**

Fig 5.11

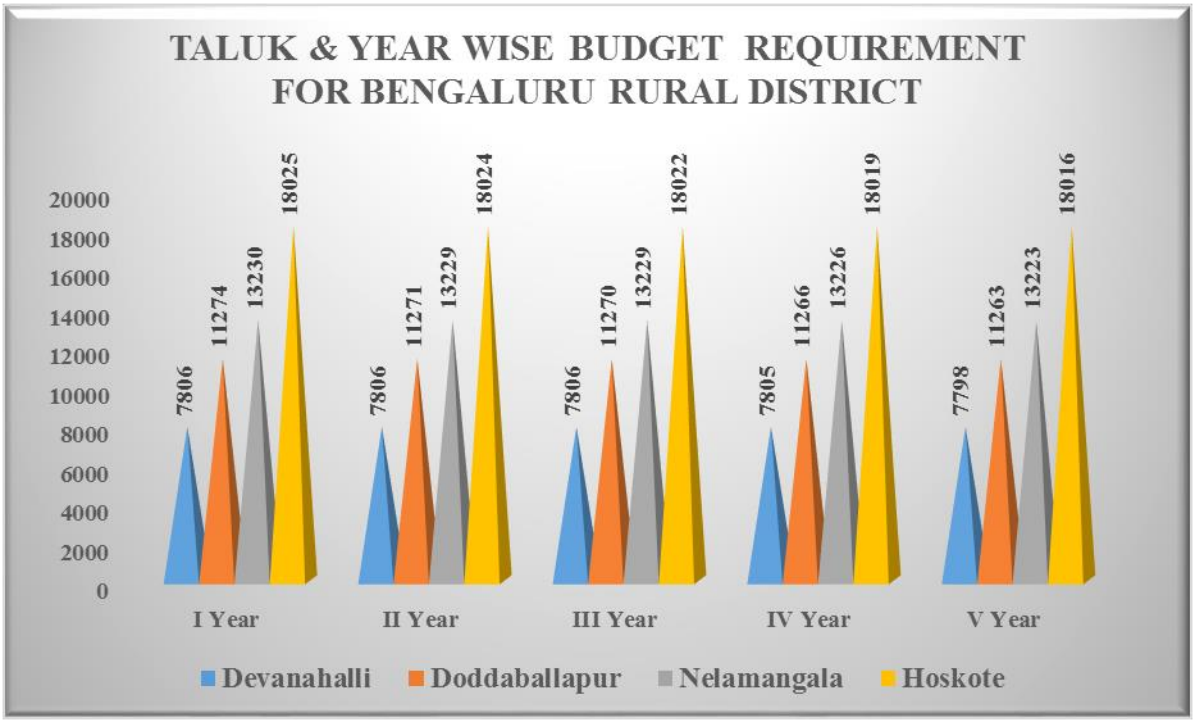
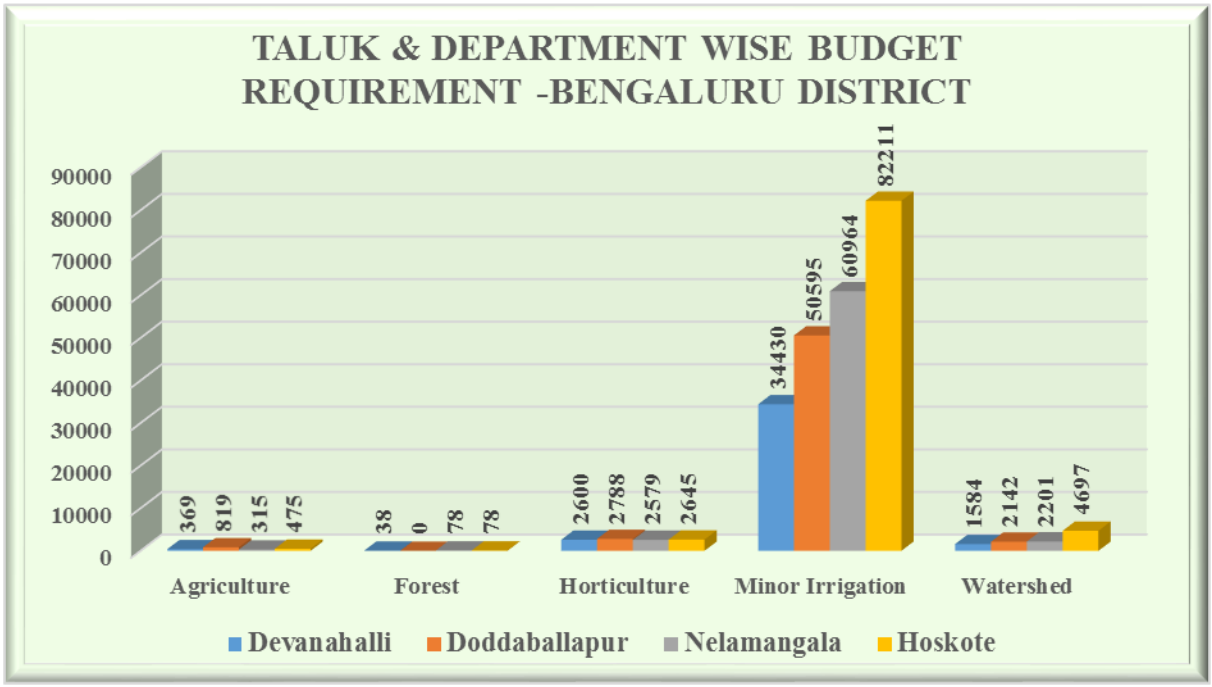


Table 5.13. DISTRICT ABSTRACT-BUDGET-TALUK & DEPARTMENT WISE

in Lakh Rupees

Sl. No.	Taluk	Agriculture	Forest	Horticulture	Minor Irrigation	Watershed	Total
1	Devanahalli	369	38	2600	34430	1584	**39021**
2	Doddaballapur	819	-	2788	50595	2142	**56344**
3	Nelamangala	315	78	2579	60964	2201	**66137**
4	Hosakote	475	78	2645	82211	4697	**90106**
Total		**1978**	**194**	**10612**	**228200**	**10624**	**251608**

Fig 5.12



Abbreviations used:

DVHL- Devanahalli DBLPR- Doddaballapur NLML- Nelamangala HSKT- Hosakote

AIBP- Accelerated Irrigation benefit Programme of GoI

KKKP- Har Khet Ko Pani, which was envisaged to bring in more irrigated area

PDMC-MI: Per drop more crops- Micro irrigation

PMKSY- WS: Pradhan mantra Krishi Sinchai Yojana- water shed

MGNREGA: Convergence of funds for rejuvenation/desilting/improvement of existing tanks as well.

CONCLUSIONS

- Bangalore rural district has limited cultivated area (1.00 lakh ha), with irrigation facility for 25000 ha mainly by bore wells. Nearly, 75,000 ha is rainfed area. Main crop grown under rainfed situations is ragi (occupying 40500 ha). Most irrigated area is occupied by fruits and vegetables (17500 ha).
- There are no alternate sources of irrigation, bore wells providing irrigation to all irrigated area in the district. There are more than 6017 open wells and 754 tanks, which have not been able to provide irrigation.
- Focus on collecting the rain water by various water harvesting structures as well as extending micro irrigation to all the bore well areas are the main features of the district irrigation plan. They are contemplated to be implemented through water shed, minor irrigation and per drop-more crop components.
- There is no major irrigation project in the district and there are no prospects to establish any major irrigation project, due to lack of perennial source of flowing water.
- It is contemplated to create a new irrigation potential of 70856 ha by different programmes by using the proposed budget of Rs 251608 lakh.
- Doddaballapur and Hosakote taluks will have 21280 ha and 19954 ha respectively of new irrigation potential. Remaining irrigation potential is shared by Nelmangala and Devanahalli taluks.
- Hosakote and Dodaballapur taluks are planned to use a budget of Rs 90106 lakhs and Rs 56344 lakhs to achieve the new irrigation potential. Nelamangala and Devanahalli taluks will get a budget of Rs 66137 lakh and Rs 39021 lakh
- Major works are planned to improve the sub basins of Pennar and Arkavati rivers covering all the taluks. Along with check dams proposed, AIBP works are expected to create new irrigation potential of 13235 ha, even though this work is expected to use a huge budget of Rs 84554 lakh.
- Under Har Khet ko Pani component, tank improvements are expected to be achieved through desilting, construction of feeder channels and filling of tanks by lift irrigation schemes. This is expected to create

new irrigation potential of 21579 ha by using the budget of Rs. 146230 lakh.

- Remaining new irrigation potential is expected to be increased by other components like “per drop more crops- minor irrigation” as well as convergence through MGNREGA.

APPENDICES

1.2 Demography :

Source : Census of India

District : Bangalore Rural

Sl. No	Taluks	No.of Gram panchayaths	No.of Villages	Population			SC		ST	General	Total	
				M	F	Total	Child	No. of Members	No. of Members	No. of Members	No. of household	No. of Members
1	Devanahalli	21	214	107842	101780	209622	23010	49517	20385	139720	61466	209622
2	Doddballapura	29	298	153527	146067	299594	30672	60773	14259	224562	71158	299594
3	Hoskote	26	297	140299	130519	270818	31028	57882	9753	203183	45330	270818
4	Nelamangala	22	243	107504	103358	210862	22352	45528	8506	156828	51325	210862
Total		**98**	**1052**	**509172**	**481724**	**990896**	**107062**	**213700**	**52903**	**724293**	**229279**	**990896**

1.4 Agro Ecology, Climate, Hydrology & Topography :

Source : IMD, Regional ICAR centre (s), SAUs, KVKs etc.

District : Bangalore Rural

Sl. No.	Agro Ecological Zone Type	Type of Terrain	Taluk Name	Block Area (ha)	Normal Annual Rainfall (mm)	Average Monthly Rainfall (mm)	No. of Rainy Days (No.)	Maximum Rainfall Intensity (mm)			Average Weekly Temperature (C)									Potential Evapo-Transpiration (PET)				Elevation		
											Period									Period						
											Summer (April-May)			Winter (Oct-March)			Rainy (June-Sept.)									
								Upto 15 min	Beyond 15 but upto 30 min	Beyond 30 but upto 60 min	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Summer	Winter	Rainy Season	Cumulative Total	Min	Max	Mean
1	Karnataka plateau hot moist semi-arid with 150-180 days of LGP	Physiographycally the district can be divided in to rocky upland, plateauand flat-topped hills at an elevation of about 900 m. msl. Flat-topped Lateritehills are seen in the northern part at an elevation of 1073 m. msl. The pediplainsform major part of the district underlain by gneisses and granites with the highestpediplain in the range of 850m and 950m msl.	DEVANAHALLI	44935	792		50	90			20.3	32.3	26	17	31.7	24	20.1	31.1	25.6	501	351	781	1633	764	1004	884
2	Karnataka plateau hot moist semi-arid with 150-180 days of LGP		DODDABALLAPURA	78760	796		50	122			21.1	36.4	29	13.6	35.6	25	20.1	32.9	26.5	474	365	690	1528	645	1073	859

3	Karnataka plateau hot moist semi-arid with 150-180 days of LGP	Rocky upland pediplain and plateau constitute erosional topography. Major part of the pediplain is dissectedby streamlets flowing in southerly direction. In northern part of Doddaballpurtaluk, the pediplains have northerly slope dissected by various streamlets. Themajor part of the district lies in Cauvery basin.	HOSAKOTE	54857	829		49	118			19.6	36.8	28	12.3	36.3	24	18.6	33.9	26.25	481	354	690	1525	754	874	814
4	Karnataka plateau hot moist semi-arid with 150-180 days of LGP		NELAMANGALA	50967	920		53	112			20.3	32.2	26	16.8	29.4	23	19.9	31.1	25.5	474	372	669	1514	681	987	834

Average Monthly Rainfall (mm)

Sl.No.	Taluk	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	Devanahalli	1	6	10	37	89	65	89	120	159	146	55	13	**792**
2	Doddaballapur	1	5	13	35	90	71	86	118	163	150	53	11	**796**
3	Hoskote	2	4	10	40	90	65	87	110	165	175	63	15	**829**
4	Nelamangala	2	5	10	56	107	68	99	152	185	166	57	13	**920**
	Average	**1**	**5**	**11**	**42**	**94**	**67**	**91**	**125**	**168**	**159**	**57**	**13**	**834**

2.1 Area-wise, Crop-wise Irrigation Status :

Source : Department of Agriculture, Agriculture Satistics of State, Agristat

District : Bangalore Rural

Crop Type	Kharif (Area in ha)			Rabi (Area in ha)			Summer (Area in ha)			Total (Area in ha)		
	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total	Irrigated	Rainfed	Total
Agriculture Crops												
A) Cereals												
Devanahalli	760	7990	8750	100	0	100	100	25	125	960	8015	8975
Doddaballapur	3100	17255	20355	200	0	200	150	65	215	3450	17320	20770
Hoskote	1300	10620	11920	110	0	110	200	52	252	1610	10672	12282
Nelamangala	544	15402	15946	80	0	80	62	12	74	686	15414	16100
Sub Total	**5704**	**51267**	**56971**	**490**	**0**	**490**	**512**	**154**	**666**	**6706**	**51421**	**58127**
B) Pulses												
Devanahalli	100	1300	1400	0	325	325	0	0	0	100	1625	1725
Doddaballapur	300	1780	2080	50	600	650	50	11	61	400	2391	2791
Hoskote	150	1950	2100	0	470	470	0	0	0	150	2420	2570
Nelamangala	0	2100	2100	70	163	233	29	4	33	99	2267	2366
Sub Total	**550**	**7130**	**7680**	**120**	**1558**	**1678**	**79**	**15**	**94**	**749**	**8703**	**9452**
C) Oil Seeds												
Devanahalli	50	220	270	0	0	0	0	0	0	50	220	270
Doddaballapur	100	900	1000	0	0	0	50	12	62	150	912	1062
Hoskote	30	770	800	0	0	0	0	0	0	30	770	800
Nelamangala	0	354	354	0	0	0	3	0	3	3	354	357
	180	**2244**	**2424**	**0**	**0**	**0**	**53**	**12**	**65**	**233**	**2256**	**2489**
Agriculture Crops Total												
Devanahalli	910	9510	10420	100	325	425	100	25	125	1110	9860	10970
Doddaballapur	3500	19935	23435	250	600	850	250	88	338	4000	20623	24623
Hoskote	1480	13340	14820	110	470	580	200	52	252	1790	13862	15652
Nelamangala	544	17856	18400	150	163	313	94	16	110	788	18035	18823
Total	**6434**	**60641**	**67075**	**610**	**1558**	**2168**	**644**	**181**	**825**	**7688**	**62380**	**70068**
Horticulture Crops												
Devanahalli										5293	3528	8821

Doddaballapur										2203	1469	3672
Hoskote										8132	5422	13554
Nelamangala										506	338	844
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16134**	**10757**	**26891**
Sericulture												
Devanahalli										**3199**		**3199**
Doddaballapur										**527**		**527**
Hoskote										**2725**		**2725**
Nelamangala										**36**		**36**
Total										**6487**	**0**	**6487**
Total of all Crops												
Devanahalli										**9602**	**13388**	**22990**
Doddaballapur										**6730**	**22092**	**28822**
Hoskote										**12647**	**19284**	**31931**
Nelamangala										**1330**	**18373**	**19703**
Grand Total										**30309**	**73137**	**103446**

Appendices 2.2

Production and productivity of agricultural crops during Rabi 2015-16

Bangalore Rural District — Production in MT, productivity in Kgs/ha

Sl.No.	Crop		Devanahalli		Doddaballapur		Hoskote		Nelamangala		Total	
			Average Productivity	Production	Average Productivity	Production	Average Productivity	Production	Average Productivity	Production	Average Productivity	Production
1	Paddy	Irri	3400	78.2	4500	234.0	2800	590.8	4813	798.9	3878	1752.9
		RF	2200	17.6	2500	52.5		0.0		0.0	2350	68.2
2	Ragi	Irri	3600	334.8	2200	470.8	3200	25.6		0.0	3000	945.0
		RF	1800	12173.4	1200	11852.4	1850	19641.5	1450	19073.3	1575	63647.3
3	Maize	Irri	3000	246.0	4000	7080.0	3200	540.8	5500	825.0	3925	8521.2
		RF	2000	392.0	2200	18180.8		0.0	3500	6772.5	2567	26680.5
4	Fodder Joewar	Irri	7000	35.0	3000	372.0		0.0		0.0	5000	780.0
		RF	6000	1170.0	1100	1892.0		0.0		0.0	3550	6904.8
5	Pop Corn	Irri		0.0	2100	264.6		0.0		0.0	2100	264.6
		RF	0	0.0	1000	223.0		0.0		0.0	1000	272.0

6	Minor Millets	Irri	0	0.0	0	0.0		0.0		0.0	0	0.0
		RF	500	4.0	100	2.3		0.0		0.0	300	9.3
	Cereals Total		**1953**	**14451.0**		**40624.4**	**1876**	**20798.7**	**1783**	**27469.7**	**1951**	**109845.7**
5	Redgram	Irri	1400	114.8	1000	108.0	0	0.0		0.0	1200	228.0
		RF	1000	215.0	800	285.6	450	86.4	875	203.0	781	778.1
6	Horsegram	RF	800	76.0	600	24.0	275	24.8	32	15.4	427	300.9
7	Blackgram	RF	0	0.0	0	0.0		0.0		0.0	0	0.0
8	Greengram	RF	0	0.0	0	0.0	400	0.8		0.0	400	0.8
9	Cowpea	Irri	1000	50.0	1200	44.4		0.0		0.0	1100	95.7
		RF	800	223.2	700	122.5	450	59.9	950	171.0	725	556.1
10	Field bean	Irri	600	17.4	1200	51.6		0.0	1938	9.7	1246	95.9
		RF	200	78.4	700	275.8	600	722.4	900	742.5	600	1689.0
	Pulses Total		**678**	**774.8**	**790**	**911.9**	**552**	**894.2**	**663**	**1141.5**	**664**	**3744.5**
11	Groundnut	Irri	1300	46.8	1300	52.0	0	0.0	0	0.0	1300	98.8
		RF	800	13.6	800	54.4	500	4.0	1025	40.0	781	103.1
12	Sesamum	RF	0	0.0	300	2.4	250	4.3	500	2.5	350	10.5
13	Sunflowe	Irr	0	0.0	0	0.0		0.0		0.0	0	0.0

	r	i										
14	Castor	RF	300	1.2	600	72.0	500	105.0	1000	73.0	600	244.2
15	Niger	RF	250	5.3	400	38.8	300	40.5	375	19.9	331	101.4
16	Mustard	RF	200	15.2	400	43.6	300	63.6	400	30.4	325	153.7
	Total Oilseeds		**533**	**82.1**	**595**	**263.2**	**373**	**217.4**	**674**	**165.8**	**500**	**711.7**
17	Su (Tonnes)	Irri		0.0		0.0		0.0		0.0	0	0.0
Grand Total			**1760**	***15307.9***	**1741**	***41799.5***	**1649**	***21910.2***	**1656**	***28777.0***	**1804**	***114301.9***

Production and productivity of agricultural crops during Rabi 2015-16

Bangalore Rural District **Production in MT, productivity in Kgs/ha**

Sl .No.	Crop		Devanahalli		Doddaballapur		Hoskote		Nelamangala		Total	
			Average Productivity	Production	Average Productivity	Production	Average Productivity	Production	Average Productivity	Production	Average Productivity	Production
1	Ragi	Irri	3000	15.0	3200	224.0	3000	36.0	4500	184.5	3590	459.5
		RF	0	0.0	0	0.0					0	0.0
2	Maize	Irri	3700	129.5	4000	180.0	4200	151.2	5000	45.0	4046	505.7
		RF	0	0.0	0	0.0					0	0.0
	Cereals	Irri	**3612**	**144.5**	**3513**	**404.0**	**3900**	**187.2**	**4590**	**229.5**	**3815**	**965.2**
		RF	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**
3	Bengalgram	Irri	0	0.0	0	0.0					0	0.0
		RF	1200	132.0	800	98.4	850	54.4	1000	76.5	967	361.3
4	Horsegram	Irri	0	0.0	0	0.0	0		0		0	0.0
		RF	400	32.8	900	270.0	925	272.9	0		850	575.7
5	Avare	Irri	0	0.0	1200	12.0	0		1250	31.3	1236	43.3
		RF	0	0.0	700	1.4	0		0		700	1.4
6	Cowpea	Irri	0	0.0	1100	20.9	0		1000	21.0	1048	41.9
		RF	0	0.0	0	0.0	0		0		0	0.0
	Pulses	**Irri**	**0**	**0.0**	**1134**	**32.9**	**0**	**0.0**	**1136**	**52.3**	**1135**	**85.2**
		RF	**858**	**164.8**	**870**	**369.8**	**912**	**327.3**	**1000**	**76.5**	**892**	**938.4**

7	Sunflower	Irri	0	0.0	0	0.0	0		0		0	
		RF	0	0.0	0	0.0	0		0		0	
	Oilseeds	Irri	**0**	**0.0**	0	**0.0**	0	**0.0**	0	**0.0**	0	**0.0**
		RF	**0**	**0.0**	0	**0.0**	0	**0.0**	0	**0.0**	0	**0.0**
					0		0		0		0	
	Grand Total		**1333**	**309.3**	**1418**	**806.7**	**1264**	**514.5**	**2077**	**358.3**	**1441**	**1988.7**

Production and productivity of agricultural crops during Summer 2015-16

Production in MT, productivity in Kgs/ha

Sl. No	Crop	Devanahalli		Doddaballapur		Hoskote		Nelamangala		Total	
		Average Productivity	Production	Average Productivity	Production	Average Productivity	Production	Average Productivity	Production	Average Productivity	Production
1	Ragi			4300	275.2	4500	22.5			3675	297.7
2	Paddy					2000	140			1739	140.0
3	Maize	3350	134.00	3200	99.2	3200	83.2			2903	316.4
	Cereals	**3350**	**134**	**7500**	**374.4**	**7700**	**245.7**	**0**	**0**	**2788**	**754.1**
4	Field Bean	0	0	650	7.15			681	8.9	667	16.0
5	Cowpea	0	0								0.0
	Pulses	**0**	**0**	**650**	**7.15**	**0**	**0**	**681**	**8.9**	**667**	**16.0**
6	Groundnut	0	0	1500	18					1500	18.0
	Oilseeds	**0**	**0**	**1500**	**18**	**0**	**0**	**0**	**0.0**	1500	**18.0**
Grand Total		**3350**	**134.00**	**3386**	**399.6**	**2433**	**245.7**	**681**	**8.9**	**2571**	**788.1**

5.1 Strategic Action plan for Irrigation in District Under PMKSY : 2016-17 to 2020-21

Name of the Blocks / sub Districts	Concerned Ministry / Department	Component	Activity	Total Number / Capacity (cum)	Command Area / Irriagation Potential (ha)	Period of Implementation (5 / 7 yrs)	Estimated Cost (Rs.in Lakhs)
	DoLR-MoRD	PMKSY Watershed	**Newly created WHS**				
	DoLR-MoRD		**Farm Ponds**				
	DoLR-MoRD		Dodaballpura	1,055	2,110	5Years	918
	DoLR-MoRD		Hosakote	1,060	2,120	5Years	922
	DoLR-MoRD		Nelamagala	1,206	2,412	5Years	1,049
			TOTAL	**3,321**	**6,642**		**2,889**
	DoLR-MoRD		**Check Dams**	0	0	5Years	0
			Dodaballpura	54	162	5Years	243
			Hosakote	53	159	5Years	239
			Nelamagala	51	153	5Years	230
			TOTAL	**158**	**474**		**711**
			Nala Bund	0	0	5Years	0
			Dodaballpura	38	190	5Years	190
			Hosakote	36	180	5Years	180
			Nelamagala	34	170	5Years	170
			TOTAL	**108**	**540**		**540**
	DoLR-MoRD		**Gokatte**	0	0	5Years	0
			Dodaballpura	46	92	5Years	115
			Hosakote	44	88	5Years	110
			Nelamagala	43	86	5Years	108
			TOTAL	**133**	**266**		**333**
	DoLR-MoRD		**Rubble check**				
			Dodaballpura	801	0	5Years	26
			Hosakote	800	0	5Years	26
			Nelamagala	800	0	5Years	26
			TOTAL	**2,401**	**0**		**78**
	DoLR-MoRD		**Percolation**	0	0	5Years	0

			Tanks				
			Dodaballpura	19	38	5Years	86
			Hosakote	17	34	5Years	77
			Nelamagala	15	30	5Years	68
			TOTAL	**51**	**102**		**230**
	DoLR-MoRD		Other Ground Water Recharge Structure	0	0		0
	DoLR-MoRD		Fishery Ponds/cattle pond	0	0		0
	DoLR-MoRD		**Renovated WHS**				
	DoLR-MoRD		Farm Ponds	0	0		0
	DoLR-MoRD		Check Dams	0	0		0
	DoLR-MoRD		Nallh Bunds	0	0		0
	DoLR-MoRD		Percolation Tanks	0	0		0
	DoLR-MoRD		Other Ground Water Recharge Structure	0	0		0
	DoLR-MoRD		Fishery Ponds/cattle pond	0	0		0
	DoLR-MoRD	Convergence With MGNREGA	**Newly Created**				
	DoLR-MoRD		**Water Conservation:**	0	0		0
	DoLR-MoRD		**Recherge pit**	0	0		0
			Dodaballpura	366	0	5Years	106
			Hosakote	366	0	5Years	106
			Nelamagala	364	0	5Years	106
			TOTAL	**1,096**	**0**		**318**
	DoLR-MoRD		**Trench cum Bund With waste weir**	0	0		0
			Dodaballpura	1,046	0	5Years	314
			Hosakote	1,046	0	5Years	314

			Nelamagala	1,046	0	5Years	314
			TOTAL	**3,138**	**0**		**941**
	DoLR-MoRD		**Water Harvesting:**	0	0		0
	DoLR-MoRD		**Multi Arch check dam**	0	0		0
			Dodaballpura	33	33	5Years	144
			Hosakote	32	32	5Years	139
			Nelamagala	30	30	5Years	130
			TOTAL	**95**	**95**		**413**
	DoLR-MoRD		Creation of Irrigation Canals and Drains:	0	0		0
	DoLR-MoRD		Providing infrastructure for Irrigation:	0	0		0
	DoLR-MoRD		**Land Development**	0	0		0
	DoLR-MoRD		**Agro Forestry (Bund planting)**	0	0		0
			Dodaballpura	1,184	0	5Years	78
			Hosakote	1,181	0	5Years	78
			Nelamagala	1,183	0	5Years	78
			TOTAL	**3,548**	**0**		**234**
	DoLR-MoRD		**Dryland Horticulture Activities (Nos)**	0	0		0
			Dodaballpura	101	0	5Years	45
			Hosakote	100	0	5Years	45
			Nelamagala	99	0	5Years	44
			TOTAL	**300**	**0**		**135**
			Renovation				
	DoLR-MoRD		Renovation & Maintainance of irrigation of canals & Drains.	0	0		0

			Renovation of water bodies including desilting:	0	0		0
	State Irrigation Department	Name of the Scheme	Major Irrigation	0	0		0
	State Irrigation Department		Medium Irrigation	0	0		0
	State Irrigation Department		Surface Minor Irrigation	0	0		0
	Irrigation Scheme of State Agriculture Department	Name of the Scheme		0	0		0
	Irrigation Scheme of other Line Departments of State Govt.			0	0		0
	Externally aided projects			0	0		0
	Other loan projects like NABARD			0	0		0

	TOTAL			**14,349**	**8,119**		**6,821**

5.2 : Strategic Action plan for Irrigation in District Under PMKSY :

Name of the Blocks / sub Districts	Concerned Ministry / Department	Component	Activity	Total Number / Capacity (cum)	Command Area / Irriagation Potential (ha)	Period of Implementation (5 / 7 yrs)	Estimated Cost (in Rs.)
Anekal	MoWR	AIBP	Major Irrigation				
			Medium Irrigation				
			Construction of Check dam near muthuru village near muthyalamadavu right bank Anekal taluk, Bangalore urban District	1	20.00	2 years	100.00
				1	**20.00**		**100.00**
Anekal	MoWR	Har Khet ko pani	**Renovation and improvements to tanks including desilting of water bodies**				
			TOTAL	**2**	**40**		**200**
			Anekal Dodda Kere	40.17	113.20	5years	226.40
			Karpura Tank	25.25	60.80	5years	121.60
			Marasur Dodda Kere	13.69	112.80	5years	225.60
			Bidarakere	10.65	40.80	5years	81.60
			Bagganadoddi Kere	10.12	44.00	5years	88.00
			Haragadde Doddakere	18.56	61.60	5years	123.20
			Biderei Amani Kere	30.12	51.60	5years	103.20
			Sakalavara Bhujanga Dasana Kere	10.75	48.80	5years	97.60
			Hulimangala Kere	14.30	76.40	5years	152.80
			Byatarayanadoddi Kere	4.93	54.70	5years	109.40
			Hennagara Kere	100.48	280.00	5years	560.00
			Sarjapura Chikka Kere	18.56	60.60	5years	121.20
			Muthanallur Amani Kere	125.37	260.00	5years	520.00

			Singena Agrahara Kere	20.30	67.20	5years	134.40
			Huskur Kere	20.69	52.80	5years	105.60
			Gattahally Bommanakere	19.47	40.40	5years	80.80
			Mugalur Kodi Kere	20.69	52.80	5years	105.60
			Sarjapura Dodda Kere	51.73	177.20	5years	354.40
			Mayasandra Dodda Kere	16.43	76.40	5years	152.80
			Bhidaraguppe Kere	36.51	98.83	5years	197.66
			Bommansandra Kere	9.80	48.80	5years	97.60
B.South	MoWR		Vaderahalli Kere	116.00	525.28	5years	1050.56
			Gulakamale Kere	70.00	268.51	5years	537.02
			Chikkalingasastri Kere	17.00	74.92	5years	149.84
			Udipalya Kere	9.88	42.52	5years	85.04
			Agara Kere	20.00	78.97	5years	157.94
B.East	MoWR		Kodathi Tank	2.69	50.89	5years	101.78
			Chikkenahally Tank	2.40	47.16	5years	94.32
			Rampur Tank	27.00	145.80	5years	291.60
			Yelamallappa Shetty Tank	110.00	176.98	5years	353.96
			Bidarahally Tank	11.00	50.06	5years	100.12
			Doddagubbi Tank	13.00	60.75	5years	121.50
B.North	MoWR		Bandekodigehally	8.90	121.40	5years	242.80
			Doddajala Tank	12.64	107.60	5years	215.20
			Bagalur Tank	7.94	83.00	5years	166.00
			Singanayakanahally Tank	4.98	74.12	5years	148.24
			Adde Viswanathapura Tank	4.48	45.73	5years	91.46
			Alur tank	7.45	62.48	5years	124.96
			Sondekoppa Tank	7.98	76.50	5years	153.00
				1071.91	**3972.40**		**7944.80**
			Providing Lift Irrigation schemes				

Anekal	MoWR		Construction of lift irrigation scheme from Madappanahalli to Jathagodanahalli and other tank in Anekal taluk,Bangalore urban Dist	1.00	121.00	5years	150.00
			Ground Water Development				
			RRR of Water Bodies				
	MoWR		**Construction of Field Channels**				
	MoWR		Lined Field Cannels				
	MoWR		Unlined Channels				
	MOA & FW-DAC & FW	Per drop more crop (Micro Irrigation)	DPAP Drip				
	MOA & FW-DAC & FW		DPAP Sprinkler				
	MOA & FW-DAC & FW		Non –DPAP Drip(Horticulture dept.)				
anekal	MOA & FW-DAC & FW		anekal				
Bangalore North			Bangalore North				
Bangalore south			Bangalore south				
Bangalore east			Bangalore east				
					2016-17		
anekal			anekal		134.2		108.31
Bangalore North			Bangalore North		81.6		64.84
Bangalore south			Bangalore south		59.4		47.94
Bangalore east			Bangalore east		17.8		13.11
					2017-18		

anekal			anekal		165.60		99.36
Bangalore North			Bangalore North		100.80		60.48
Bangalore south			Bangalore south		72.00		43.20
Bangalore east			Bangalore east		21.60		12.96
Total			Total		360.00		216.00
					2018-19		
anekal			anekal		169.00		101.40
Bangalore North			Bangalore North		105.00		63.00
Bangalore south			Bangalore south		73.00		43.80
Bangalore east			Bangalore east		20.00		12.00
Total			Total		367.00		220.20
					2019-20		
anekal			anekal		172.00		103.20
Bangalore North			Bangalore North		103.60		62.16
Bangalore south			Bangalore south		74.00		44.40
Bangalore east			Bangalore east		20.4		12.24
Total			Total		370.00		222.00
					1760.00		1114.40
			Non –DPAP Sprinkler(Agriculture dept.)				
	MOA & FW-DAC & FW		anekal		75	5	66.15000
			Bangalore North		100	5	88.20000
			Total				**154.35000**

5.3. Strategic action plan for irrigation in Bangalore rural district under PMKSY

SL. NO	Name of the block or Sub District	Concerned Minstry or Department	Component	Activity	Name of Works	Total No./Capacity (Mcft)	Command Area/Irrigation Potential (Ha.)	Period of Implementation	Estimated Cost in Lakhs
1	2	3	4	5	6	7	8	9	10
1	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Appegondanahalli Village in Belavangala Hobli, Doddaballapur taluk, Bangalore rural District	1	22.00	2 years	110.00
2	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Lakkenahalli Village in, Sasalu Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00
3	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Palpaldinne Village in Tubugere Hobli, Doddaballapur taluk, Bangalore rural District	1	24.00	2 years	120.00
4	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Melina Nayakarandanahalli Village in Tubugere Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00

5	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Tippur Village in Belavangala Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00
6	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near S.Nagenahalli village in Thubagere Hobli Doddaballapura Taluk Bangalore Rural Distict	1	24.00	2 years	120.00
7	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Geddalapalya village in Thubagere Hobli Doddaballapura Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
8	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Neralagatta village in Doddaballapura Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
9	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across North pennar sub basin inDoddaballapura Taluk Bangalore Rural Distict	8	190.00	2 years	950.00
10	Doddaballapur	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across Arkavathy sub basin inDoddaballapura Taluk Bangalore Rural Distict	15	320.00	2 years	1600.00

11	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Doddasagarahalli Village in Vijayapura Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	22.00	2 years	110.00
12	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near varadenahalli Village in Channarayapatna Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	30.00	2 years	150.00
13	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across Arkavathy sub basin in Devanahalli taluk, taluk, Bangalore rural District	6	100.00	2 years	500.00
14	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across SouthPennar sub basin in Devanahalli taluk, taluk, Bangalore rural District	12	200.00	2 years	1000.00
15	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Karahalli Village in Kundan Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	20.00	2 years	100.00

16	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Majjigehosahalli Village in Kundan Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	26.00	2 years	130.00
17	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Muddiganahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
18	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Kempathimmanahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	14.00	2 years	70.00
19	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near tylagere village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	12.00	2 years	60.00
20	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Byadarahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	20.00	2 years	100.00

21	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Beerasandra village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	12.00	2 years	60.00
22	Devanahalli	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of Percolation tank across halla near Yaluvahalli village in Vijayapura hobli Devanahalli Taluk Bangalore Rural Distict	1	40.00	2 years	200.00
23	Nelamagala	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Someswara village in thymagondlu hobli, NelamagalaTaluk Bangalore Rural district	1	26.00	2 years	130.00
24	Nelamagala	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of series of checkdams across North pennar sub basin in NelamagalaTaluk Bangalore Rural district	8	120.00	5 years	600.00

25	Nelamagala	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of series of checkdams across Shimsha sub basin in NelamagalaTaluk Bangalore Rural district	4	80.00	5 years	400.00
26	Nelamagala	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of series of checkdams across Arkavathy sub basin in NelamagalaTaluk Bangalore Rural district	15	240.00	5 years	1200.00
27	Nelamagala	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of pick up across halla near durgamma guhe halla near marlaukate village in thymagondlu hobli, NelamagalaTaluk Bangalore Rural district	1	24.00	2 years	120.00
28	Hosakote	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of series of checkdams across South pennar sub basin in Hosakote Taluk Bangalore Rural district	15	260.00	5 years	1300.00
29	Hosakote	MoWR	AIBP	Surface Minor irrigation / Ground water development	Construction of series of checkdams across Palar sub basin in HosakoteTaluk Bangalore Rural district	4	80.00	5 years	400.00
						107	2026.00		10130.00
						Length in Kms			

1	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of North Pennar Basins	102.12		5 years	3700.00
2	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	254.68		5 years	2450.00
3	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of South Pennar Basins	186.99		5 years	2250.00
4	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	22.64		5 years	260.00
5	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys ofNorth Pennar Basins	15.59		5 years	1200.00
6	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	198.12		5 years	2900.00
7	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Shimsha Sub Basins	15.96		5 years	75.00
8	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of South Pennar Basins	440.00		5 years	3600.00

9	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Palar Sub Basins	30.00		5 years	110.00
						1266.10			16545.00
		MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Renovation and improvements to tanks including desilting of water bodies				
1	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Devanahally Hire Amani Kere	30.47	45.02	5years	450.00
2	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Devasthanada Amani	16.00	93.20	5years	180.00
3	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Chikkasanne (Bande) Amani Kere	72.47	146.72	5years	400.00

4	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Karyhally Amani Kere	12.09	200.00	5years	200.00
5	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Alur Doddanahally kere	43.00	87.04	5years	175.00
6	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Bannimangala Amani Kere	41.80	84.61	5years	170.00
7	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Aradeshanahally Kere	43.41	119.10	5years	400.00
8	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Vijayapura Amani Kere	56.21	145.30	5years	500.00
9	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Thattamachanahally Kere	130.44	324.00	5years	800.00

10	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Channarayapatna Amani Kere	52.32	77.30	5years	160.00
11	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Konagina Bele Kere	20.89	93.00	5years	190.00
12	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Budigere Amani Kere	131.86	161.80	5years	195.00
13	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Bidalapura Amani Kere	18.21	80.53	5years	170.00
14	Devanahalli	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Bettakote Amani Kere	130.58	212.46	5years	200.00
15	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Doddaballapur Nagarakere	28.28	60.70	5years	120.00

16	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Thalagawara Kere	18.03	74.06	5years	150.00
17	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Madagondahally Kere	9.90	52.06	5years	100.00
18	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kolur Kere	19.44	53.31	5years	110.00
19	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Palanajogi Hally Kere	30.40	52.15	5years	105.00
20	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kesthur Kere	15.91	50.59	5years	100.00
21	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Aralumallige Kere	60.10	165.66	5years	200.00

22	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Konaghatta Amani Kere	21.91	68.44	5years	140.00
23	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Shivapura Amani Kere	51.26	104.01	5years	200.00
24	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Hanabe Doddakere	31.81	122.64	5years	195.00
25	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Thippur Dodda Kere	16.97	101.86	5years	190.00
26	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Doddahejjaji Amani Kere	10.96	50.57	5years	100.00
27	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Chikkahejjaji Amani Kere	28.88	189.39	5years	200.00

28	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Hadripur Kere	17.67	70.28	5years	140.00
29	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Sonnenahally Amani Kere	20.15	77.38	5years	150.00
30	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Mudalakalenahally Hosakere	9.54	93.08	5years	190.00
31	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Arudi Uramundina Kere	6.01	64.35	5years	130.00
32	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Sri Ramanahally Hosakere	8.84	112.50	5years	200.00
33	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Machanahally Hosakere	8.13	184.76	5years	195.00

34	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Gundamgere Tank	98.63	404.69	5years	200.00
35	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Ujjani Gowrammana Kere	14.65	57.51	5years	120.00
36	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Mallasandra Hosakere	11.54	93.48	5years	190.00
37	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kottigemachenahalli Hosakere	9.03	61.92	5years	120.00
38	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Madura Amanikere	89.43	291.00	5years	200.00
39	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Honnavara Dodda Kere	7.07	86.19	5years	170.00

40	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Simpadipura Kere	4.24	48.56	5years	100.00
41	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kadanur Hirekere	7.42	40.16	5years	80.00
42	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Dodda Tumkur Kere	39.60	111.69	5years	200.00
43	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Rajaghatta Amani Kere	12.73	46.66	5years	90.00
44	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Lingana Hally kere	24.74	113.30	5years	200.00
45	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kenchiganala Bachegowda Kere	10.25	43.89	5years	90.00

46	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Melekote Dodda Kere	12.37	68.80	5years	130.00
47	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Bidi Kere	7.42	74.05	5years	150.00
48	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Machagondanahalli Chikka Kere	6.72	62.70	5years	125.00
49	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Heggade Halli Melina Kere	6.36	52.30	5years	100.00
50	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Gulya Nandi Gunda Kere	3.18	43.86	5years	90.00
51	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Dandusa Kodigehally Kere	6.72	48.56	5years	100.00

52	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Thirumagonda Hally Hosakere	21.21	81.00	5years	165.00
53	Doddaballapur	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Thippana Hally Kere (Lakshmidevapura)	8.13	40.00	5years	80.00
54	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Nelamangala Kere	8.01	59.20	5years	120.00
55	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Arasina Kunte	6.03	44.80	5years	90.00
56	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Gollahalli Kere	7.26	54.00	5years	110.00
57	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Baradi Kere	17.71	130.50	5years	200.00

58	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Srinivasapura Chikka Kere	5.93	44.00	5years	90.00
59	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	T.BegurDodda Kere	15.47	114.00	5years	200.00
60	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Honnarayana Halli Kere	5.55	40.90	5years	90.00
61	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Tyamagondalu Hire Kere	27.12	200.30	5years	200.00
62	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Sondalawadi Kere	27.02	199.40	5years	195.00
63	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Bidalur Gangamma Kere	7.80	57.52	5years	120.00

64	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Manne Amanikere	11.29	83.40	5years	170.00
65	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Obalapura Dodda Kere	7.14	53.00	5years	110.00
66	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Doddabele Konana Kere	7.78	57.40	5years	120.00
67	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Niduvanda Kere	8.44	62.70	5years	125.00
68	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Halenijagal Hosa Kere	13.34	97.53	5years	195.00
69	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Devarahosahally kere	21.60	160.00	5years	200.00

70	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kuluvanahalli Chikanakere	7.07	52.40	5years	110.00
71	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Billanakote Kere	7.18	53.30	5years	100.00
72	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kambal Dodda Kere	6.92	51.20	5years	110.00
73	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Maralakunte Kere	9.13	73.25	5years	150.00
74	Nelamangala	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Madaga Kere	10.89	80.90	5years	170.00
75	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Hoskote Dodda Kere	800.00	939.00	5years	500.00

76	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Hoskote Chikka Kere	9.10	48.00	5years	100.00
77	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Mallasandra Kere	2.20	69.00	5years	140.00
78	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Doddahullur Amani Kere	120.00	212.00	5years	300.00
79	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kolathur Tank	10.50	63.00	5years	130.00
80	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kurubarahally Tank	4.25	50.00	5years	100.00
81	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kondrahalli Tank	9.13	42.00	5years	90.00

82	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Nelavagilu Tank	16.30	43.00	5years	90.00
83	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Arehalli Tank	18.83	43.00	5years	95.00
84	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Thavare Kere	28.10	62.00	5years	125.00
85	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Esthur Tank	11.98	43.50	5years	85.00
86	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Theniyur Tank	25.18	78.50	5years	160.00
87	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Sulibele Tank	11.30	196.00	5years	200.00

88	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Hasigala Tank	14.00	82.00	5years	160.00
89	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Medi Malasandra Tank	16.87	47.00	5years	90.00
90	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Beli Kere Tank	11.00	51.00	5years	100.00
91	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Samethanahally Ooramun dina Kere	6.11	40.00	5years	80.00
92	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Attivatta Tank	14.67	60.00	5years	120.00
93	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Makanahalli Kere	7.91	43.00	5years	90.00

94	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Vagata Kere	18.66	48.00	5years	100.00
95	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Nidagata Kere	30.80	46.00	5years	90.00
96	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Attur Tank	7.50	54.00	5years	100.00
97	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Kodihally Kere	27.22	79.00	5years	150.00
98	Hosakote	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Doddanallur Tank	31.13	43.00	5years	90.00
						3106.78	9739.89		16065.00

					Providing Lift Irrigation schemes	No of Tank	Capacity of Filling (Mcft)		
1	Nelamangala and Doddaballapur	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes from Byramangala reservoir to fill tanks in Nelamangala and Doddaballapura taluk,Bangalore rural Dist	200.00	5882.35	5years	50000.00
2	Devanahalli	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes from Thattamachanahalli Amanikere to Fill tanks in Devanahalli taluk,Bangalore rural Dist	30.00	1882.35	5years	16000.00
3	Hosakote	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes from Samethanahalli to fill 29 tanks in Hosakote taluk,Bangalore rural Dist	29.00	889.88	5years	7500.00
4	Hosakote	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes from Hosakote Amani Doddakere to fill tanks in Sulibele and Nandagudi Hobli in Hosakote taluk,Bangalore rural Dist	40.00	2117.65	5years	18000.00
						299.00	10772.23		91500.00

					Yettinahole Scheme	No of Tank	Capacity of Filling (Mcft)		
1	Nelamangala	MoWR	Har Khet Ko Panni	Providing Pipe line	Minor Irrigation tanks proposed to meet drinking water and tank filling from Yettinahole project in Nelamangala taluk, Bangalore ruralDist	2	7.34	5years	120.00
2	Doddaballapur	MoWR	Har Khet Ko Panni	Providing Pipe line	Minor Irrigation tanks proposed to meet drinking water and tank filling from Yettinahole project in Doddaballapur taluk, Bangalore ruralDist	7	75.86	5years	2000.00
3	Devanahalli	MoWR	Har Khet Ko Panni	Providing Pipe line	Minor Irrigation tanks proposed to meet drinking water and tank filling from Yettinahole project in Devanahalli taluk, Bangalore ruralDist	11	335.76	5years	5000.00
4	Hosakote	MoWR	Har Khet Ko Panni	Providing Pipe line	Minor Irrigation tanks proposed to meet drinking water and tank filling from Yettinahole project in Hosakote taluk, Bangalore rural Dist	26	648.11	5years	15000.00
						46	1067.		22120.00

Abstract									
SL. NO	Name of the block or Sub District	Concerned Minstry or Department	Component	Activity	Activity	Total No./Capacity (Mcft)	Command Area/Irrigation Potential (Ha.)	Period of Implementation	Estimated Cost in Lakhs
1	Bangalore Rural	MoWR	AIBP	Surface Minor irrigation / Ground water development	Surface Minor irrigation / Ground water development	107	2026.00	2-5years	10130.00
2	Bangalore Rural	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/Riverbasin/including desilting of water bodies	Renovation and improvements to valleys/Riverbasin/including desilting of water bodies	1266.1		2-5years	16545.00
3	Bangalore Rural	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Renovation and improvements to tanks including desilting of water bodies	3106.78	9739.89	2-5years	16065.00
4	Bangalore Rural	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes	299.00	10772.23	3-5years	91500.00
4	Bangalore Rural	MoWR	Har Khet Ko Panni	Providing Pipe line	Yettinahole Scheme	46.00	1067.07	3-5years	22120.00
						Grand Total			156360.00

5.4. Strategic action plan for irrigation in Bangalore rural district under PMKSY

SL. NO	Name of the block or Sub District	Concerned Minstry or Department	Component	Activity	Total No./Capacity (Mcft)	Command Area/Irrigation Potential (Ha.)	Period of Implementation	Estimated Cost in Lakhs
		MoWR	**AIBP**	**Surface Minor irrigation / Ground water development**				
1	Doddaballapur	**MoWR**	**AIBP**	Construction of Checkdam across nala near Appegondanahalli Village in Belavangala Hobli, Doddaballapur taluk, Bangalore rural District	1	22.00	2 years	110.00
2	Doddaballapur	**MoWR**	**AIBP**	Construction of Checkdam across nala near Lakkenahalli Village in, Sasalu Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00
3	Doddaballapur	**MoWR**	**AIBP**	Construction of Checkdam across nala near Palpaldinne Village in Tubugere Hobli, Doddaballapur taluk, Bangalore rural District	1	24.00	2 years	120.00

4	Doddaballapur	**MoWR**	**AIBP**	Construction of Checkdam across nala near Melina Nayakarandanahalli Village in Tubugere Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00
5	Doddaballapur	**MoWR**	**AIBP**	Construction of Checkdam across nala near Tippur Village in Belavangala Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00
6	Doddaballapur	**MoWR**	**AIBP**	Construction of pick up across halla near S.Nagenahalli village in Thubagere Hobli Doddaballapura Taluk Bangalore Rural Distict	1	24.00	2 years	120.00
7	Doddaballapur	**MoWR**	**AIBP**	Construction of pick up across halla near Geddalapalya village in Thubagere Hobli Doddaballapura Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
8	Doddaballapur	**MoWR**	**AIBP**	Construction of pick up across halla near Neralagatta village in Doddaballapura Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
9	Doddaballapur	**MoWR**	**AIBP**	Construction of pick up across North pennar sub basin inDoddaballapura Taluk Bangalore Rural Distict	8	190.00	2 years	950.00

10	Doddaballapur	**MoWR**	**AIBP**	Construction of pick up across Arkavathy sub basin inDoddaballapura Taluk Bangalore Rural Distict	15	320.00	2 years	1600.00
11	Devanahalli	**MoWR**	**AIBP**	Construction of Checkdam across nala near Doddasagarahalli Village in Vijayapura Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	22.00	2 years	110.00
12	Devanahalli	**MoWR**	**AIBP**	Construction of Checkdam across nala near varadenahalli Village in Channarayapatna Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	30.00	2 years	150.00
13	Devanahalli	**MoWR**	**AIBP**	Construction of Checkdam across Arkavathy sub basin in Devanahalli taluk, taluk, Bangalore rural District	6	100.00	2 years	500.00
14	Devanahalli	**MoWR**	**AIBP**	Construction of Checkdam across SouthPennar sub basin in Devanahalli taluk, taluk, Bangalore rural District	12	200.00	2 years	1000.00
15	Devanahalli	**MoWR**	**AIBP**	Construction of Checkdam across nala near Karahalli Village in Kundan Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	20.00	2 years	100.00

16	Devanahalli	**MoWR**	**AIBP**	Construction of Checkdam across nala near Majjigehosahalli Village in Kundan Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	26.00	2 years	130.00
17	Devanahalli	**MoWR**	**AIBP**	Construction of pick up across halla near Muddiganahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
18	Devanahalli	**MoWR**	**AIBP**	Construction of pick up across halla near Kempathimmanahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	14.00	2 years	70.00
19	Devanahalli	**MoWR**	**AIBP**	Construction of pick up across halla near tylagere village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	12.00	2 years	60.00
20	Devanahalli	**MoWR**	**AIBP**	Construction of pick up across halla near Byadarahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
21	Devanahalli	**MoWR**	**AIBP**	Construction of pick up across halla near Beerasandra village in Kundan hobli Devanahalli	1	12.00	2 years	60.00

				Taluk Bangalore Rural Distict				
22	Devanahalli	**MoWR**	**AIBP**	Construction of Percolation tank across halla near Yaluvahalli village in Vijayapura hobli Devanahalli Taluk Bangalore Rural Distict	1	40.00	2 years	200.00
23	Nelamagala	**MoWR**	**AIBP**	Construction of pick up across halla near Someswara village in thymagondlu hobli, NelamagalaTaluk Bangalore Rural district	1	26.00	2 years	130.00
24	Nelamagala	**MoWR**	**AIBP**	Construction of series of checkdams across North pennar sub basin in NelamagalaTaluk Bangalore Rural district	8	120.00	5 years	600.00
25	Nelamagala	**MoWR**	**AIBP**	Construction of series of checkdams across Shimsha sub basin in NelamagalaTaluk Bangalore Rural district	4	80.00	5 years	400.00
26	Nelamagala	**MoWR**	**AIBP**	Construction of series of checkdams across Arkavathy sub basin in NelamagalaTaluk Bangalore Rural district	15	240.00	5 years	1200.00

27	Nelamagala	**MoWR**	**AIBP**	Construction of pick up across halla near durgamma guhe halla near marlaukate village in thymagondlu hobli, NelamagalaTaluk Bangalore Rural district	1	24.00	2 years	120.00
28	Hosakote	**MoWR**	**AIBP**	Construction of series of checkdams across South pennar sub basin in Hosakote Taluk Bangalore Rural district	15	260.00	5 years	1300.00
29	Hosakote	**MoWR**	**AIBP**	Construction of series of checkdams across Palar sub basin in HosakoteTaluk Bangalore Rural district	4	80.00	5 years	400.00
					107	**2026.00**		**10130.00**
		MoWR	**PMKSY/RRR**	**Renovation and improvements to valleys/River basin/including desilting of water bodies**	Length in Kms			
1	Doddaballapur			Improvements proposed for Subsidiary valleys of North Pennar Basins	102.12		5 years	3700.00
2	Doddaballapur			Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	254.68		5 years	2450.00
3	Devanahalli			Improvements proposed for Subsidiary valleys of South Pennar Basins	186.99		5 years	2250.00

4	Devanahalli			Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	22.64		5 years	260.00
5	Nelamangala			Improvements proposed for Subsidiary valleys ofNorth Pennar Basins	15.59		5 years	1200.00
6	Nelamangala			Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	198.12		5 years	2900.00
7	Nelamangala			Improvements proposed for Subsidiary valleys of Shimsha Sub Basins	15.96		5 years	75.00
8	Hosakote			Improvements proposed for Subsidiary valleys of South Pennar Basins	440.00		5 years	3600.00
9	Hosakote			Improvements proposed for Subsidiary valleys of Palar Sub Basins	30.00		5 years	110.00
					1266.10			**16545.00**
		MoWR	**PMKSY/RRR**	**Renovation and improvements to tanks including desilting of water bodies**				
1	Devanahalli			Devanahally Hire Amani Kere	30.47	45.02	5years	90.00
2	Devanahalli			Devasthanada Amani	16.00	93.20	5years	180.00
3	Devanahalli			Chikkasanne (Bande) Amani Kere	72.47	146.72	5years	150.00
4	Devanahalli			Karyhally Amani Kere	12.09	200.00	5years	200.00
5	Devanahalli			Alur Doddanahally kere	43.00	87.04	5years	175.00

6	Devanahalli			Bannimangala Amani Kere	41.80	84.61	5years	170.00
7	Devanahalli			Aradeshanahally Kere	43.41	119.10	5years	200.00
8	Devanahalli			Vijayapura Amani Kere	56.21	145.30	5years	195.00
9	Devanahalli			Thattamachanahally Kere	130.44	324.00	5years	200.00
10	Devanahalli			Channarayapatna Amani Kere	52.32	77.30	5years	160.00
11	Devanahalli			Konagina Bele Kere	20.89	93.00	5years	190.00
12	Devanahalli			Budigere Amani Kere	131.86	161.80	5years	195.00
13	Devanahalli			Bidalapura Amani Kere	18.21	80.53	5years	170.00
14	Devanahalli			Bettakote Amani Kere	130.58	212.46	5years	200.00
15	Doddaballapur			Doddaballapur Nagarakere	28.28	60.70	5years	120.00
16	Doddaballapur			Thalagawara Kere	18.03	74.06	5years	150.00
17	Doddaballapur			Madagondahally Kere	9.90	52.06	5years	100.00
18	Doddaballapur			Kolur Kere	19.44	53.31	5years	110.00
19	Doddaballapur			Palanajogi Hally Kere	30.40	52.15	5years	105.00
20	Doddaballapur			Kesthur Kere	15.91	50.59	5years	100.00
21	Doddaballapur			Aralumallige Kere	60.10	165.66	5years	200.00
22	Doddaballapur			Konaghatta Amani Kere	21.91	68.44	5years	140.00
23	Doddaballapur			Shivapura Amani Kere	51.26	104.01	5years	200.00
24	Doddaballapur			Hanabe Doddakere	31.81	122.64	5years	195.00

25	Doddaballapur			Thippur Dodda Kere	16.97	101.86	5years	190.00
26	Doddaballapur			Doddahejjaji Amani Kere	10.96	50.57	5years	100.00
27	Doddaballapur			Chikkahejjaji Amani Kere	28.88	189.39	5years	200.00
28	Doddaballapur			Hadripur Kere	17.67	70.28	5years	140.00
29	Doddaballapur			Sonnenahally Amani Kere	20.15	77.38	5years	150.00
30	Doddaballapur			Mudalakalenahally Hosakere	9.54	93.08	5years	190.00
31	Doddaballapur			Arudi Uramundina Kere	6.01	64.35	5years	130.00
32	Doddaballapur			Sri Ramanahally Hosakere	8.84	112.50	5years	200.00
33	Doddaballapur			Machanahally Hosakere	8.13	184.76	5years	195.00
34	Doddaballapur			Gundamgere Tank	98.63	404.69	5years	200.00
35	Doddaballapur			Ujjani Gowrammana Kere	14.65	57.51	5years	120.00
36	Doddaballapur			Mallasandra Hosakere	11.54	93.48	5years	190.00
37	Doddaballapur			Kottigemachenahalli Hosakere	9.03	61.92	5years	120.00
38	Doddaballapur			Madura Amanikere	89.43	291.00	5years	200.00

39	Doddaballapur			Honnavara Dodda Kere	7.07	86.19	5years	170.00
40	Doddaballapur			Simpadipura Kere	4.24	48.56	5years	100.00
41	Doddaballapur			Kadanur Hirekere	7.42	40.16	5years	80.00
42	Doddaballapur			Dodda Tumkur Kere	39.60	111.69	5years	200.00
43	Doddaballapur			Rajaghatta Amani Kere	12.73	46.66	5years	90.00
44	Doddaballapur			Lingana Hally kere	24.74	113.30	5years	200.00
45	Doddaballapur			Kenchiganala Bachegowda Kere	10.25	43.89	5years	90.00
46	Doddaballapur			Melekote Dodda Kere	12.37	68.80	5years	130.00
47	Doddaballapur			Bidi Kere	7.42	74.05	5years	150.00
48	Doddaballapur			Machagondanahalli Chikka Kere	6.72	62.70	5years	125.00
49	Doddaballapur			Heggade Halli Melina Kere	6.36	52.30	5years	100.00
50	Doddaballapur			Gulya Nandi Gunda Kere	3.18	43.86	5years	90.00
51	Doddaballapur			Dandusa Kodigehally Kere	6.72	48.56	5years	100.00
52	Doddaballapur			Thirumagonda Hally Hosakere	21.21	81.00	5years	165.00
53	Doddaballapur			Thippana Hally Kere (Lakshmidevapura)	8.13	40.00	5years	80.00
54	Nelamangala			Nelamangala Kere	8.01	59.20	5years	120.00

55	Nelamangala			Arasina Kunte	6.03	44.80	5years	90.00
56	Nelamangala			Gollahalli Kere	7.26	54.00	5years	110.00
57	Nelamangala			Baradi Kere	17.71	130.50	5years	200.00
58	Nelamangala			Srinivasapura Chikka Kere	5.93	44.00	5years	90.00
59	Nelamangala			T.BegurDodda Kere	15.47	114.00	5years	200.00
60	Nelamangala			Honnarayana Halli Kere	5.55	40.90	5years	90.00
61	Nelamangala			Tyamagondalu Hire Kere	27.12	200.30	5years	200.00
62	Nelamangala			Sondalawadi Kere	27.02	199.40	5years	195.00
63	Nelamangala			Bidalur Gangamma Kere	7.80	57.52	5years	120.00
64	Nelamangala			Manne Amanikere	11.29	83.40	5years	170.00
65	Nelamangala			Obalapura Dodda Kere	7.14	53.00	5years	110.00
66	Nelamangala			Doddabele Konana Kere	7.78	57.40	5years	120.00
67	Nelamangala			Niduvanda Kere	8.44	62.70	5years	125.00
68	Nelamangala			Halenijagal Hosa Kere	13.34	97.53	5years	195.00
69	Nelamangala			Devarahosahally kere	21.60	160.00	5years	200.00
70	Nelamangala			Kuluvanahalli Chikanakere	7.07	52.40	5years	110.00
71	Nelamangala			Billanakote Kere	7.18	53.30	5years	100.00
72	Nelamangala			Kambal Dodda Kere	6.92	51.20	5years	110.00
73	Nelamangala			Maralakunte Kere	9.13	73.25	5years	150.00
74	Nelamangala			Madaga Kere	10.89	80.90	5years	170.00
75	Hosakote			Hoskote Dodda Kere	800.00	939.00	5years	500.00
76	Hosakote			Hoskote Chikka Kere	9.10	48.00	5years	100.00
77	Hosakote			Mallasandra Kere	2.20	69.00	5years	140.00
78	Hosakote			Doddahullur Amani Kere	120.00	212.00	5years	300.00
79	Hosakote			Kolathur Tank	10.50	63.00	5years	130.00
80	Hosakote			Kurubarahally Tank	4.25	50.00	5years	100.00
81	Hosakote			Kondrahalli Tank	9.13	42.00	5years	90.00
82	Hosakote			Nelavagilu Tank	16.30	43.00	5years	90.00
83	Hosakote			Arehalli Tank	18.83	43.00	5years	95.00

84	Hosakote			Thavare Kere	28.10	62.00	5years	125.00
85	Hosakote			Esthur Tank	11.98	43.50	5years	85.00
86	Hosakote			Theniyur Tank	25.18	78.50	5years	160.00
87	Hosakote			Sulibele Tank	11.30	196.00	5years	200.00
88	Hosakote			Hasigala Tank	14.00	82.00	5years	160.00
89	Hosakote			Medi Malasandra Tank	16.87	47.00	5years	90.00
90	Hosakote			Beli Kere Tank	11.00	51.00	5years	100.00
91	Hosakote			Samethanahally Ooramun dina Kere	6.11	40.00	5years	80.00
92	Hosakote			Attivatta Tank	14.67	60.00	5years	120.00
93	Hosakote			Makanahalli Kere	7.91	43.00	5years	90.00
94	Hosakote			Vagata Kere	18.66	48.00	5years	100.00
95	Hosakote			Nidagata Kere	30.80	46.00	5years	90.00
96	Hosakote			Attur Tank	7.50	54.00	5years	100.00
97	Hosakote			Kodihally Kere	27.22	79.00	5years	150.00
98	Hosakote			Doddanallur Tank	31.13	43.00	5years	90.00
					3106.78	**9739.89**		**14350.00**
		MoWR	**PMKSY**	**Providing Lift Irrigation schemes**				
1	Hosakote			Providing Lift Irrigation schemes from Samethanahalli to fill 29 tanks in Hosakote taluk,Bangalore rural Dist	259.79	889.88	5years	7500.00
1	Doddaballapur, Nelamangala, Devanahalli			Providing Lift Irrigation schemes from Byramangala reservoir to fill tanks in Nelamangala, Doddaballapura and Devanahalli taluk,Bangalore rural Dist	259.79	889.88	5years	50000.00
					259.79	**889.88**		**57500.00**

Abstract								
SL.NO	Name of the block or Sub District	Concerned Minstry or Department	Component	Activity	Total No./Capacity (Mcft)	Command Area/Irrigation Potential (Ha.)	Period of Implementation	Estimated Cost in Lakhs
1	Bangalore Rural	MoWR	AIBP	Surface Minor irrigation / Ground water development	107	2026.00	2-5years	10130.00
2	Bangalore Rural	MoWR	PMKSY/RRR	Renovation and improvements to valleys/Riverbasin/including desilting of water bodies	1266.1		2-5years	16545.00
3	Bangalore Rural	MoWR	PMKSY/RRR	Renovation and improvements to tanks including desilting of water bodies	3106.78	9739.89	2-5years	14350.00
4	Bangalore Rural	MoWR	PMKSY	Providing Lift Irrigation schemes	259.79	889.88	3-5years	57500.00
					Grand Total			98525.00

Strategic Action plan for Irrigation in District Under PMKSY :								
District : Bangalore Rural								
Sl. No.	**Name of the Blocks / sub Districts**	**Concerned Ministry / Department**	**Component**	**Activity**	**Total Number / Capacity (Cum)**	**Command Area / Irriagation Potential (ha)**	**Period of Implementation (5 / 7 yrs)**	**Estimated Cost (in lakhs.)**
				De-Silting				
1	Nelamangala		PMKSY	Dodderi Tank (Saavandaiahna Katte)	424753	11.20	5 years	87.8
2				Hanumanthapura Tank	375198	11.20		102.5
3				Kuluvanahalli Lakkadasi Katte	113268	9.30		58.5
4				Kasaragatta Tank	9911	17.60		42.9
5				Kerekathiganuru Tank	183210	22.00		310.1
6				Lakkenahalli Tank	59183	25.10		46.8
7				Govenahalli Tank	147248	4.50		58.5
8				Sulkunte Rayara Tank	79288	10.10		146.3
9				Yalachagere Tank	379446	29.90		198.9
10				Hurulihalli Tank	151779	23.50		105.3
11				Kenchanapura Tank	28317	33.60		409.5
12				Kenchanahalli Tank	356792	22.90		234.0

13				Byrasandra Agasana Katte	35113	7.30	46.8
14				Shrinivasapura Dodda Tank	150080	22.40	181.4
15				Byrasandra Hosa Tank	84951	6.10	76.1
16				Mantanakurchi Dodda Tank	170751	22.20	87.8
17				Mantanakurchi Chikka Tank	73624	31.60	93.6
18				Soladevanahalli Tank	56634	3.20	181.4
19				Gorinabele Tank	553028	25.00	234.0
20				Doddakarenahalli Tank	84951	10.00	87.8
21				Hanchipura Nayakana Katte Tank	132240	5.20	93.6
22				Honnasanadra Tank	319981	4.00	41.0
23				Koratagere Tank	76173	11.50	52.7
24				Mallarabanavadi Tank	319981	20.50	175.5
25				Hanchipura Tank	75890	20.40	99.5
26				Kulume kempalinganahalli Tank	130824	4.00	88.7
27				Bavikere Tank	92030	6.00	58.5
28				Chikkamaranahalli Tank	84951	16.00	175.5
29				Yentaganahalli Tank	132806	4.60	134.8
30				Mahadevapura Tank	132806	7.50	17.6
31				Mylanahalli Tank	226535	17.60	134.6
32				Byrashettihalli Tank	226535	17.60	134.6
33				Bettahalli Tank	481386	19.20	140.4
34				Hydal malenayakana katte	360474	16.10	181.4
35				Mallapura Tank	481386	9.60	140.4

36				Kannegowdanahalli Tank	222571	10.30		128.7
37				Bommanahalli Tank	132240	9.60		76.1
38				Kempalinganahalli Tank	44175	10.10		99.5
39				Byadarahalli Tank	37945	12.10		47.7
40				Veerananjipura Tank	132806	4.10		88.7
41				Machanayakanahalli Tank	41343	9.60		112.1
42				Thonachinakuppe Tank	56634	4.80		58.5
43				Mandigere Tank	474307	16.90		204.8
44				Budhihal Tank	208695	24.00		140.4
45				Kachanahalli Tank	303557	21.20		158.0
46				Deganahalli Tank	226535	7.60		32.2
47				Budhihal Gopalachari katte	311486	6.00	5 years	140.4
48				Shivagange (Thavere Katte)	141585	7.60		46.8
49				Basavapattana Tank	141585	16.80		257.4
50				Narayanapura Tank	28317	5.60		29.3
51				Kambal Devara Katte	1047723	4.00		58.5
52				Bydarahalli Tank	226535	15.20		82.5
53				Maragondanahalli Tank	45307	13.50		7.7
54				Machanahalli Tank	79854	31.60		158.0
55				Maragondanahalli Dasana katte	56634	17.00		23.4
56				Shivagange yennehole kere	113268	6.40		64.4
57				Narasipura Kere	129975	23.50		94.1
58				Bugadihalli Tank	104206	9.80		35.3

59				Chanuvalli Tank	217191	7.50		25.2
60				Halenahalli Tank	28317	9.50		64.4
61				Heggunda Chikkakere Tank	104206	14.20		106.5
62				Kuruvel thimmanahalli Mutturayana katte	178963	9.10		17.2
63				Heggunda DoddaTank	189723	29.10		275.7
64				Jajur Tank	141585	4.90		17.6
65				Sompura Tank	385109	5.30		93.6
66				Karimanne Tank	75890	19.90		169.7
67				Pemmanahalli Tank	84951	7.70		93.6
68				Bharathipura Tank	28317	8.12		36.0
69				Tattekere Tank	104206	22.70		228.2
70				Nijagal Kempohalli Tank	56634	4.10		46.8
71				Yedehalli Tank	83535	20.00		198.9
72				Madenahalli Tank	84951	9.30		46.8
73				Agalakuppe Tank	113268	6.00		52.7
74				Kamalapura Tank	368119	9.70		26.3
75				Hale nijagal Narasimhadevara katte	509703	9.20		26.2
76				Lakkur Tank	141585	36.30		95.5
77				Nijagal Rayara Tank	312901	12.60		134.6
78				Honenahalli Chinikatte	141585	6.00	5 years	64.4
79				Sripathihalli chikkanayakana katte	538020	12.40		140.4

80				Kengal Tank	368119	13.60	140.4
81				Kengal Kempohalli Tank	189723	11.20	46.8
82				Averahalli Tank	679604	14.80	41.0
83				Veerasagara Tank	293080	20.00	18.4
84				Baragenahalli Tank	113268	13.00	46.8
85				Baragenahalli Melanagavi Matada Katte	28317	7.49	23.4
86				Baragenahalli Tank	28317	10.00	23.4
87				Hasiruvalli Tank	141585	31.60	76.1
88				Lakkappanahalli Tank	45024	6.00	111.2
89				Minnapura Tank	424753	17.80	175.5
90				Byranayakanahalli Chikka Tank	198218	4.80	111.2
91				Byranayakanahalli Palya (Dodda Huchayana Palya)	410594	31.20	141.9
92				Vadakunte Atthi Katte Tank	254852	4.10	99.5
93				Chikkanahalli Jamadagni Katte	56634	9.30	52.7
94				Jakkanahalli Tank	400117	25.10	310.1
95				Kodigehalli Tank	169901	13.80	81.9
96				Kodigehalli Muttugada Katte	1163822	6.90	33.8
97				Obalapura Donkana Katte	220872	9.70	7.6
98				Ballagere Tank	396436	11.30	198.9
99				Atthigunte Palya Tank	736238	12.00	14.9
100				Somasagara Tank	70793	10.00	21.1

101				Goragatta Tank	1019406	27.50		339.3
102				Obalapura Chikka Tank	1302574	16.19		165.6
103				T-Begur Chikka Tank	351129	31.20		216.5
104				Torekempohalli Tank	28317	36.00		99.7
105				Byranahalli Tank	368119	33.20		292.5
106				Malanagathihalli Tank	73624	6.40		25.7
107				Araledibba Tank	56634	8.50		58.5
108				Kalalugatta Tank	1523445	38.50		403.7
109				Thotanahalli Mallappana Shetti Tank	54652	14.20		140.4
110				Gundenahalli Tank	141585	4.00		70.2
111				Arebommanahalli Yanjala Tank	169901	10.10		70.2
112				Halkur Tank	1346182	17.40		64.4
113				Melekathiganur Tank	113268	21.20		105.3
114				Kodagibommanahalli Tank	64280	14.00		99.5
115				Arebommanahalli Kunte Tank	481386	16.90		35.1
116				Maralakunte Chikka Tank	141585	5.80		9.0
117				Bennegere Tank	62298	6.10		35.1
118				Benachanahalli Tank	509703	16.40		169.7
119				Dasenahalli Tank	82119	19.40	5 years	83.0
120				Manne Chikka Tank	339802	16.20		122.9
121				Beeragondanahalli Tank	39644	11.70		83.1
122				Manne Hachalashetti Tank	226535	11.70		82.5

123				Gollarahatti Tank	42476	10.10	13.2
124				Appagondanahalli Tank	99109	12.10	27.1
125				Doddabele Doddakere	877822	35.50	310.1
126				Karehalli Tank	226535	10.90	99.5
127				Thadashigatta Tank	622971	33.60	345.2
128				Mavinakunte Tank	42476	14.10	16.6
129				Gulapura Tank	56634	5.30	52.7
130				Esuvanahalli Tank	113268	4.10	64.4
131				Koolipura	34317	4.58	163.7
132				Arishinakunte	24127	3.22	114.9
133				Jakkasandra	12963	1.73	38.7
134				Jakkasandra	16185	2.16	23.1
135				Lakkur	122280	16.32	434.5
136				Kallanayakanahalli	27199	3.63	129.8
137				Mallarabaanavadi	53947	7.20	429.1
138				Mahadevapura	7643	1.02	36.5
139				GandraGulipura	13937	1.86	66.5
140				Ahobalapalya	76950	10.27	116.0
141				Veerananjipura	11239	1.50	54.2
142				Bommanahalli	15735	2.10	121.5
143				KG Srinivaspura	17683	2.36	84.2
144				Machanayakanahalli	18957	2.53	182.5
145				Byrasandra	16859	2.25	87.1

146				Byrasandra	18283	2.44		164.5
147				Hajipalya	15435	2.06		73.7
148				Hajipalya	23378	3.12		45.9
149				Madalakote	22403	2.99		107.0
150				Kempohalli	51924	6.93		247.6
151				T-Begar	15960	2.13		76.3
152				Banasavadi	41360	5.52		197.4
153				Kottanahalli	45556	6.08		217.2
154				B Mylanahalli	28997	3.87		50.2
155				Bolamaranahalli	80696	10.77		213.6
156				Arjunbettahalli	20455	2.73		97.6
157				Niduvanda	4346	0.58		20.6
158				Channohalli	14461	1.93		192.3
159				Kuntabommanahalli	48628	6.49		231.7
160				Shiraganahalli	12813	1.71		61.1
161				Kannohalli	23003	3.07		109.5
162				Manne	20306	2.71	5 years	96.9
163				Shiraganahalli	19406	2.59		92.5
164				Sripathihalli	74777	9.98		379.9
165				Tippagondanahalli	8917	1.19		42.7
166				Tippagondanahalli	8467	1.13		40.1
167				Thippagondanahalli	12064	1.61		57.5
168				kuluvanahalli	14461	1.93		69.0

169				Mahimapura	34841	4.65		166.3
170				Dasenapura	13787	1.84		65.8
171				Kuthagatta	151726	20.25		555.6
172				Gangenapura	16185	2.16		77.0
173				Gangenapura	14611	1.95		69.8
174				Jakkasandra	12438	1.66		77.0
175				Halkuru	11839	1.58		56.4
176				Lakkasandra	11839	1.58		52.8
177				Kempapura Agrahara	13262	1.77		61.4
178				Kempapura Agrahara	32369	4.32		152.5
179				Isuvanahalli	35665	4.76		174.2
180				Vajarahalli	40236	5.37		191.9
					33440226.0	**2069.6**		**20706.4**

Strategic Action plan for Irrigation in District Under PMKSY :								
District : Bangalore Rural								
Sl. No.	**Name of the Blocks / sub Districts**	**Concerned Ministry / Department**	**Component**	**Activity**	**Total Number / Capacity (Cum)**	**Command Area / Irriagation Potential (ha)**	**Period of Implementation (5 / 7 yrs)**	**Estimated Cost (in lakhs.)**
Feeder Channel Improvement, Nala Improvement, Bund Improvement								
1				Kalalugatta Tank	1523445	38.50	5 years	15.00
2				Lakkur Tank	141585	36.30		15.00
3				Torekempohalli Tank	28317	36.00		15.00
4				Doddabele Doddakere	877822	35.50		15.00
5				Kenchanapura Tank	28317	33.60		15.00
6				Thadashigatta Tank	622971	33.60		15.00
7				Byranahalli Tank	368119	33.20		15.00
8				Mantanakurchi Chikka Tank	73624	31.60		15.00
9				Machanahalli Tank	79854	31.60		15.00
10				Hasiruvalli Tank	141585	31.60		15.00

11				Byranayakanahalli Palya (Dodda Huchayana Palya)	410594	31.20		15.00
12				T-Begur Chikka Tank	351129	31.20		15.00
13				Yalachagere Tank	379446	29.90		15.00
14				Heggunda DoddaTank	189723	29.10		15.00
15				Goragatta Tank	1019406	27.50		15.00
16				Lakkenahalli Tank	59183	25.10		15.00
17				Jakkanahalli Tank	400117	25.10		15.00
18				Gorinabele Tank	553028	25.00		15.00
19				Budhihal Tank	208695	24.00		15.00
20				Hurulihalli Tank	151779	23.50		15.00
21				Narasipura Kere	129975	23.50		15.00
22				Kenchanahalli Tank	356792	22.90		15.00
23				Tattekere Tank	104206	22.70		15.00
24				Shrinivasapura Dodda Tank	150080	22.40		15.00
25				Mantanakurchi Dodda Tank	170751	22.20		15.00
26				Kerekathiganuru Tank	183210	22.00		15.00
27				Kachanahalli Tank	303557	21.20		15.00
28				Melekathiganur Tank	113268	21.20		15.00
29				Mallarabanavadi Tank	319981	20.50		10.00
30				Hanchipura Tank	75890	20.40		10.00
31				Kuthagatta	151726	20.25		10.00
32				Yedehalli Tank	83535	20.00		10.00

33				Veerasagara Tank	293080	20.00		10.00
34				Karimanne Tank	75890	19.90		10.00
35				Dasenahalli Tank	82119	19.40		10.00
36				Bettahalli Tank	481386	19.20	5 years	10.00
37				Minnapura Tank	424753	17.80		10.00
38				Kasaragatta Tank	9911	17.60		10.00
39				Mylanahalli Tank	226535	17.60		10.00
40				Byrashettihalli Tank	226535	17.60		10.00
41				Halkur Tank	1346182	17.40		10.00
42				Maragondanahalli Dasana katte	56634	17.00		10.00
43				Mandigere Tank	474307	16.90		10.00
44				Arebommanahalli Kunte Tank	481386	16.90		10.00
45				Basavapattana Tank	141585	16.80		10.00
46				Benachanahalli Tank	509703	16.40		10.00
47				Lakkur	122280	16.32		10.00
48				Manne Chikka Tank	339802	16.20		10.00
49				Obalapura Chikka Tank	1302574	16.19		10.00
50				Hydal malenayakana katte	360474	16.10		10.00
51				Chikkamaranahalli Tank	84951	16.00		10.00
52				Bydarahalli Tank	226535	15.20		10.00
53				Averahalli Tank	679604	14.80		10.00
54				Heggunda Chikkakere Tank	104206	14.20		10.00
55				Thotanahalli Mallappana Shetti	54652	14.20		10.00

				Tank				
56				Mavinakunte Tank	42476	14.10		10.00
57				Kodagibommanahalli Tank	64280	14.00		10.00
58				Kodigehalli Tank	169901	13.80		10.00
59				Kengal Tank	368119	13.60		10.00
60				Maragondanahalli Tank	45307	13.50		10.00
61				Baragenahalli Tank	113268	13.00		10.00
62				Nijagal Rayara Tank	312901	12.60		10.00
63				Sripathihalli chikkanayakana katte	538020	12.40		10.00
64				Byadarahalli Tank	37945	12.10		10.00
65				Appagondanahalli Tank	99109	12.10		10.00
66				Atthigunte Palya Tank	736238	12.00		10.00
67				Beeragondanahalli Tank	39644	11.70		10.00
68				Manne Hachalashetti Tank	226535	11.70		10.00
69				Koratagere Tank	76173	11.50		10.00
70				Ballagere Tank	396436	11.30		10.00
71	Nelam angala		AIBP	Dodderi Tank (Saavandaiahna Katte)	424753	11.20		10.00
72				Hanumanthapura Tank	375198	11.20		10.00
73				Kengal Kempohalli Tank	189723	11.20		10.00
74				Karehalli Tank	226535	10.90		10.00
75				Bolamaranahalli	80696	10.77		10.00
76				Kannegowdanahalli Tank	222571	10.30	5 years	10.00

77				Ahobalapalya	76950	10.27		10.00
78				Sulkunte Rayara Tank	79288	10.10		10.00
79				Kempalinganahalli Tank	44175	10.10		10.00
80				Arebommanahalli Yanjala Tank	169901	10.10		10.00
81				Gollarahatti Tank	42476	10.10		10.00
82				Doddakarenahalli Tank	84951	10.00		10.00
83				Baragenahalli Tank	28317	10.00		10.00
84				Somasagara Tank	70793	10.00		10.00
85				Sripathihalli	74777	9.98		8.00
86				Bugadihalli Tank	104206	9.80		8.00
87				Kamalapura Tank	368119	9.70		8.00
88				Obalapura Donkana Katte	220872	9.70		8.00
89				Mallapura Tank	481386	9.60		8.00
90				Bommanahalli Tank	132240	9.60		8.00
91				Machanayakanahalli Tank	41343	9.60		8.00
92				Halenahalli Tank	28317	9.50		8.00
93				Kuluvanahalli Lakkadasi Katte	113268	9.30		8.00
94				Madenahalli Tank	84951	9.30		8.00
95				Chikkanahalli Jamadagni Katte	56634	9.30		8.00
96				Hale nijagal Narasimhadevara katte	509703	9.20		8.00
97				Kuruvel thimmanahalli Mutturayana katte	178963	9.10		8.00

98				Araledibba Tank	56634	8.50		8.00
99				Bharathipura Tank	28317	8.12		8.00
100				Pemmanahalli Tank	84951	7.70		8.00
101				Deganahalli Tank	226535	7.60		8.00
102				Shivagange (Thavere Katte)	141585	7.60		8.00
103				Mahadevapura Tank	132806	7.50		8.00
104				Chanuvalli Tank	217191	7.50		8.00
105				Baragenahalli Melanagavi Matada Katte	28317	7.49		8.00
106				Byrasandra Agasana Katte	35113	7.30		8.00
107				Mallarabaanavadi	53947	7.20		8.00
108				Kempohalli	51924	6.93		8.00
109				Kodigehalli Muttugada Katte	1163822	6.90		8.00
110				Kuntabommanahalli	48628	6.49		8.00
111				Shivagange yennehole kere	113268	6.40		8.00
112				Malanagathihalli Tank	73624	6.40		8.00
113				Byrasandra Hosa Tank	84951	6.10		8.00
114				Bennegere Tank	62298	6.10		8.00
115				Kottanahalli	45556	6.08		8.00
116				Bavikere Tank	92030	6.00	5 years	8.00
117				Budhihal Gopalachari katte	311486	6.00		8.00
118				Agalakuppe Tank	113268	6.00		8.00
119				Honenahalli Chinikatte	141585	6.00		8.00

120				Lakkappanahalli Tank	45024	6.00		8.00
121				Maralakunte Chikka Tank	141585	5.80		8.00
122				Narayanapura Tank	28317	5.60		8.00
123				Banasavadi	41360	5.52		8.00
124				Vajarahalli	40236	5.37		8.00
125				Sompura Tank	385109	5.30		8.00
126				Gulapura Tank	56634	5.30		8.00
127				Hanchipura Nayakana Katte Tank	132240	5.20		8.00
128				Jajur Tank	141585	4.90		5.00
129				Thonachinakuppe Tank	56634	4.80		5.00
130				Byranayakanahalli Chikka Tank	198218	4.80		5.00
131				Isuvanahalli	35665	4.76		5.00
132				Mahimapura	34841	4.65		5.00
133				Yentaganahalli Tank	132806	4.60		5.00
134				Koolipura	34317	4.58		5.00
135				Govenahalli Tank	147248	4.50		5.00
136				Kempapura Agrahara	32369	4.32		5.00
137				Veerananjipura Tank	132806	4.10		5.00
138				Nijagal Kempohalli Tank	56634	4.10		5.00
139				Vadakunte Atthi Katte Tank	254852	4.10		5.00
140				Esuvanahalli Tank	113268	4.10		5.00
141				Honnasanadra Tank	319981	4.00		5.00
142				Kulume kempalinganahalli Tank	130824	4.00		5.00

143				Kambal Devara Katte	1047723	4.00		5.00
144				Gundenahalli Tank	141585	4.00		5.00
145				B Mylanahalli	28997	3.87		5.00
146				Kallanayakanahalli	27199	3.63		5.00
147				Arishinakunte	24127	3.22		5.00
148				Soladevanahalli Tank	56634	3.20		5.00
149				Hajipalya	23378	3.12		5.00
150				Kannohalli	23003	3.07		5.00
151				Madalakote	22403	2.99		5.00
152				Arjunbettahalli	20455	2.73		5.00
153				Manne	20306	2.71		5.00
154				Shiraganahalli	19406	2.59		5.00
155				Machanayakanahalli	18957	2.53		5.00
156				Byrasandra	18283	2.44	5 years	5.00
157				KG Srinivaspura	17683	2.36		5.00
158				Byrasandra	16859	2.25		5.00
159				Jakkasandra	16185	2.16		5.00
160				Gangenapura	16185	2.16		5.00
161				T-Begar	15960	2.13		5.00
162				Bommanahalli	15735	2.10		5.00
163				Hajipalya	15435	2.06		5.00
164				Gangenapura	14611	1.95		5.00
165				Channohalli	14461	1.93		5.00

166				kuluvanahalli	14461	1.93		5.00
167				GandraGulipura	13937	1.86		5.00
168				Dasenapura	13787	1.84		5.00
169				Kempapura Agrahara	13262	1.77		5.00
170				Jakkasandra	12963	1.73		5.00
171				Shiraganahalli	12813	1.71		5.00
172				Jakkasandra	12438	1.66		5.00
173				Thippagondanahalli	12064	1.61		5.00
174				Halkuru	11839	1.58		5.00
175				Lakkasandra	11839	1.58		5.00
176				Veerananjipura	11239	1.50		5.00
177				Tippagondanahalli	8917	1.19		5.00
178				Tippagondanahalli	8467	1.13		5.00
179				Mahadevapura	7643	1.02		5.00
180				Niduvanda	4346	0.58		5.00
					33440226.00	**2069.58**		**1589.00**

Strategic Action plan for Irrigation in District Under PMKSY :								
District : Bangalore Rural								
Sl. No.	**Name of the Blocks / sub Districts**	**Concerned Ministry / Department**	**Component**	**Activity**	**Total Number / Capacity (Cum)**	**Command Area / Irriagation Potential (ha)**	**Period of Implementation (5 / 7 yrs)**	**Estimated Cost (in lakhs.)**
CHECK DAMS								
1	Nelamangala		PMKSY/PRED	BARGURU	CD-1	-	5 years	4.50
2				MARENAHALLI	CD-2	-		4.50
3				KULUVE TIMMANAHALLI	CD-3	-		4.50
4				KULUMEPALYA	CD-4	-		4.50
5				MACHIGAYANAPALYA	CD-5	-		4.50
6				JAAJURU	CD-6	-		4.50
7				HALE NIJGAL	CD-7	-		4.50
8				HALE NIJGAL	CD-8	-		4.50
9				KASABA NIJGAL	CD-9	-		4.50
10				MUDDALINGANAHALLI	CD-10	-		4.50

11				OBALAPURA	CD-11	-		4.50
12				KODIGEHALLI	CD-12	-		4.50
13				KAMALAPURA	CD-13	-		4.50
14				MAKANAKUPPE	CD-14	-		4.50
15				TAVAREKERE	CD-15	-		4.50
16				KENGAL	CD-16	-		4.50
17				KODIPALYA	CD-17	-		4.50
18				THYAMAGONDLU	CD-18	-		4.50
19				NARASAPURA	CD-19	-		4.50
20				DEVAGANAHALLI	CD-20	-		4.50
21				GUNDENAHALLI	CD-21	-		4.50
22				HALANAYAKANAHALLI	CD-22	-		4.50
23				MACHANAHALLI	CD-23	-		4.50
24				VARADANAYAKANAHALLI	CD-24	-		4.50
25				VARADANAYAKANAHALLI	CD-25	-		4.50
26				TALEKERE	CD-26	-		4.50
27				AREBOMMANAHALLI	CD-27	-		4.50
28				THIMMASANDRA	CD-28	-		4.50
29				ARALASANDRA	CD-29	-		4.50
30				MADALAKOTE	CD-30	-		4.50
31				KEMPOHALLI	CD-31	-		4.50
32				KENCHANAHALLI	CD-32	-		4.50
33				BHOOSANDRA	CD-33	-		4.50

34				MAHADEVPURA	CD-34	-		4.50
35				GORINBELE	CD-35	-		4.50
36				MANTANKURCHI	CD-36	-		4.50
37				BENNEGERE	CD-37	-	5 years	4.50
38				SIDDAYANAPALYA	CD-38	-		4.50
39				HOTTAPPANAPALYA	CD-39	-		4.50
40				KUNTABOMMANAHALLI	CD-40	-		4.50
41				GOVENAHALLI	CD-41	-		4.50
42				DASENAHALLI	CD-42	-		4.50
43				ADIHOSAHALLI	CD-43	-		4.50
44				KRISHNAPURA	CD-44	-		4.50
45				VEERASAGARA	CD-45	-		4.50
46				AVERAHALLI	CD-46	-		4.50
47				LAKKAPPANAHALLI	CD-47	-		4.50
48				GUDDEGOWDANA CHENNOHALLI	CD-48	-		4.50
49				HASIRUVALLI	CD-49	-		4.50
50				MELEKATTIGANUR	CD-50	-		4.50
51				KEMPAPURA	CD-51	-		4.50
52				BYADARAHALLI (AREBOMMANAHALLI)	CD-52	-		4.50
53				YARAMANCHANAHALLI	CD-53	-		4.50
54				HONNEGOWDANAPALYA	CD-54	-		4.50

55				MACHANAYAKANAHALLI PALYA	CD-55	-		4.50
56				KOOLIPURA	CD-56	-		4.50
57				OBANAYAKANAHALLI	CD-57	-		4.50
58				CHIKKAMARANAHALLI	CD-58	-		4.50
59				H KEMPALINGANAHALLI	CD-59	-		4.50
60				MARASARAHALLI	CD-60	-		4.50
61				MALLARABANAWADI	CD-61	-		4.50
62				MALLAPURA	CD-62	-		4.50
63				BHOVINAMARADA PALYA	CD-63	-		4.50
64				HANCHIPURA	CD-64	-		4.50
65				KAREKAL PALYA	CD-65	-		4.50
66				KORATAGERE	CD-66	-		4.50
67				GOLLAHALLI	CD-67	-		4.50
68				SOMASAGARA	CD-68	-		4.50
69				BEERAGONDANAHALLI	CD-69	-		4.50
70				TATTEKERE	CD-70	-		4.50
71				BILLINAKOTE	CD-71	-		4.50
72				SRIPATIHALLI	CD-72	-		4.50
73				HONNASANDRA	CD-73	-		4.50
74				MANCHENAHALLI	CD-74	-		4.50
75				KEMPALINGANAHALLI	CD-75	-		4.50
76				MACHANAYAKANAHALLI	CD-76	-		4.50
77				BETTAHALLI	CD-77	-	5 years	4.50

78				TADASIGHATTA	CD-78	-		4.50
79				GOLLARAHATTI	CD-79	-		4.50
80				SEETHARAMA BATTARA PALYA	CD-80	-		4.50
81				CHIKKAMARANAHALLI	CD-81	-		4.50
					81			**364.50**

District : Bengaluru Rural								
Sl. No.	**Name of the Blocks / sub Districts**	**Concerned Ministry / Department**	**Component**	**Activity**	**Total Number / Capacity (Mcft)**	**Command Area / Irriagation Potential (ha)**	**Period of Implementation (5 / 7 yrs)**	**Estimated Cost (in lakhs.)**
1	Nelamangala	PRED	PMKSY	De-Silting	180	2069.58	5	20,706.44
2			AIBP	Feeder Channel Improvement, Nala Improvement, Bund Improvement	180	2069.58	5	1,589.00
3			PMKSY	Check Dams	81	-	5	364.50
							Total	**22,659.94**

Sl. No.	Activity	Command Area / Irriagation Potential (ha)	Period of Implementation (5 / 7 yrs)	Estimated Cost (in Rs.)	Total	
					Physical (Ha.)	Financial (Rs.)
1	Major Irrigation					
2	Medium Irrigation					
3	Surface Minor Irrigation					
4	Lift Irrigation					
5	Ground Water Development					
6	RRR of Water Bodies					
7	**Construction of Field Channels**					
7.1	Lined Field Cannels					
7.2	Unlined Channels					
8	Micro-Irrigation					
9	**DPAP Drip**					
	Devanahalli	**3090**	**5**	**154367000**	**3090**	**154367000**
	Doddaballapura	**2980**	**5**	**149044000**	**2980**	**149044000**
	Hoskote	**2767**	**5**	**138398000**	**2767**	**138398000**
	Nelamangala	**1809**	**5**	**90491000**	**1809**	**90491000**
	Total	**10646**		**532300000**	**10646**	**532300000**
10	DPAP Sprinkler					
11	Non –DPAP Drip					
12	Non –DPAP Sprinkler					
13	Topping up of MGNREGA					

14	Drought Proofing through Check Dams/water Harvesting Structures.					
15	Secondary Storage Structures					
16	On Farm Development (Distribution Pipe/raised bed and furrow system etc.)					
17	**Newly created WHS**					
17.1	Farm Ponds					
17.2	Check Dams					
17.3	Nallh Bunds					
17.4	Percolation Tanks					
17.5	Other Ground Water Recharge Structure					
17.6	Fishery Ponds/cattle pond					
18	**Renovated WHS**					
18.1	Farm Ponds					
18.2	Check Dams					
18.3	Nallh Bunds					
	Percolation Tanks					
18.4						
18.5	Other Ground Water Recharge Structure					
18.6	Fishery Ponds/cattle pond					
19	**Newly Created**					
19.1	Water Conservation:					
19.2	Water Harvesting:					
19.3	Creation of Irrigation Canals and Drains:					
19.4	Providing infrastructure for Irrigation:					
19.5	Land Development					

20	**Renovation**					
	Renovation of water bodies including desilting:					
20.1						
20.2	Renovation & Maintenance of Irrigation Canals & Drains:					
21						
21.1	Major Irrigation					
21.2	Medium Irrigation					
21.3	Surface Minor Irrigation					
22						
23						
24						
25						

PROFORMA FOR DESILTATION OF TANKS (PMKSY) IN HOSAKOTE TALUK, BENGALURU RURAL DISTRICT

PRE DIVISION : BENGALURU RURAL | **PRE SUB DIVISION : HOSAKOTE**

SL. NO	NAME OF TANK	DISTRICT/ TALUK	ATHCKAT IN (Ha)	PRESENT ATCHKAT (Ha)	ORIGINAL STORAGE CAPACITY (Mcft)	PRESENT STORAGE CAPACITY (Mcft)	LOSS IN CAPACITY (Mcft)	DESILTING QUANTITY in Mcft	STORAGE CAPACITY AFTER DESILTATION	ATCHKAT TO BE STABILISED (Ha)	ESTIMATED COST (Rs in lakhs)
1	2	3	4	5	6	7	8	9	10	11	12
1	ದಳಸಗೆರೆ ಚಿಕ್ಕ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	7.29	7.29	5	3.25	1.75	49554.49	5	7.29	20.32
2	ದಳಸಗೆರೆ ದೊಡ್ಡಕೆರೆ	BANGALURU(R) / HOSAKOTE	20.66	20.66	33	21.45	11.55	327059.62	33	20.66	134.09
3	ಚಿಕ್ಕೊಂಡಹಳ್ಳಿ (ದೊಡ್ಡ ಕೆರೆ)	BANGALURU(R) / HOSAKOTE	6.08	6.08	8	5.2	2.8	79287.18	8	6.08	32.51
4	ತರಬಹಳ್ಳಿ ಅತ್ತಿಕೆರೆ	BANGALURU(R) / HOSAKOTE	12.96	12.96	15	9.75	5.25	148663.46	15	12.96	60.95
5	ನೆಲವಾಗಿಲು (ದೊಡ್ಡ ಕೆರೆ)	BANGALURU(R) / HOSAKOTE	38.88	38.88	51.7	33.605	18.095	512393.40	51.7	38.88	210.08

6	ಹಿಂಡಿಗನಾಳ (ಕುಂಬಾರನಕೆರೆ)	BANGALURU(R) / HOSAKOTE	15.39	15.39	18	11.7	6.3	178396.16	18	15.39	73.14
7	ಬನಹಳ್ಳಿ	BANGALURU(R) / HOSAKOTE	4.05	4.05	8	5.2	2.8	79287.18	8	4.05	32.51
8	ಗೆದ್ದಲಹಳ್ಳಿಪುರ (ತೀರ್ಥ ಹಳ್ಳಿ ಕೆರೆ)	BANGALURU(R) / HOSAKOTE	13.37	13.37	20	13	7	198217.95	20	13.37	81.27
9	ಗೆದ್ದಲಹಳ್ಳಿಪುರ (ದೊಡ್ಡ ಕೆರೆ)	BANGALURU(R) / HOSAKOTE	15.80	15.80	40	26	14	396435.90	40	15.80	162.54
10	ಸಿದ್ದನಹಳ್ಳಿ (ಬೊಗಳಿ ಕೆರೆ)	BANGALURU(R) / HOSAKOTE	28.35	28.35	47	30.55	16.45	465812.18	47	28.35	190.98
11	ಹಿಂಡಿಗನಾಳ	BANGALURU(R) / HOSAKOTE	20	20	30.00	19.5	10.5	297326.93	30.00	20.00	121.90
12	ಎ.ವಡ್ಡಹಳ್ಳಿ	BANGALURU(R) / HOSAKOTE	14.18	14.18	15.00	9.75	5.25	148663.46	15.00	14.18	60.95
13	ನಡವತ್ತಿ ಯಲವು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	20.66	20.66	8.00	5.2	2.8	79287.18	8.00	20.66	32.51

14	ಅಪ್ಪಾಜಿಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	1.62	1.62	3.00	1.95	1.05	29732.69	3.00	1.62	12.19
15	ದೊಡ್ಡಗಟ್ಟಿಗನಬ್ಬೆ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	10.53	10.53	15.00	9.75	5.25	148663.46	15.00	10.53	60.95
16	ಪೆತ್ತನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	23.49	23.49	25.00	16.25	8.75	247772.44	25.00	23.49	101.59
17	ಗಣಗಲು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	9.32	9.32	9	5.85	3.15	89198.08	9	9.32	36.57
18	ಕಣ್ಣೂರಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	11.75	11.75	20	13	7	198217.95	20	11.75	81.27
19	ದಂಡುಪಾಳ್ಯ ಯಲ್ಲಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.18	14.18	16	10.4	5.6	158574.36	16	14.18	65.02
20	ಚೀಮಂಡಹಳ್ಳಿ ಕಲ್ಲು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	6.48	6.48	4	2.6	1.4	39643.59	4	6.48	16.25
21	ಓಬಳಹಳ್ಳಿ	BANGALURU(R) / HOSAKOTE	11.34	11.34	12	7.8	4.2	118930.77	12	11.34	48.76

22	ಆಲಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	5.27	5.27	16	10.4	5.6	158574.36	16	5.27	65.02
23	ಹೊಸಕೋಟೆ ಚಿಕ್ಕ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.99	14.99	279	181.35	97.65	2765140.40	279	14.99	1133.71
24	ಹರಳೂರು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	7.70	7.70	8	5.2	2.8	79287.18	8	7.70	32.51
25	ಹೆತ್ತಕ್ಕಿ	BANGALURU(R) / HOSAKOTE	6.48	6.48	8	5.2	2.8	79287.18	8	6.48	32.51
26	ವಡ್ಡಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	29.32	29.32	48	31.2	16.8	475723.08	48	29.32	195.05
27	ಗೊರವಿನಹಳ್ಳಿ'	BANGALURU(R) / HOSAKOTE	3.65	3.65	4	2.6	1.4	39643.59	4	3.65	16.25
28	ಹೊಸಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	5.27	5.27	8	5.2	2.8	79287.18	8	5.27	32.51
29	ಇಸ್ತೂರು ಅಮಾನಿಕೆರೆ	BANGALURU(R) / HOSAKOTE	40.10	40.10	25	16.25	8.75	247772.44	25	40.10	101.59

30	ಚಿಕ್ಕ ಕುರುಬರಹಳ್ಳೀ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	30.2	30.2	55	35.75	19.25	545099.36	55	30.20	223.49
31	ದೊಡ್ಡರಳಗೆರೆ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	26.73	26.73	62	40.3	21.7	614475.65	62	26.73	251.94
32	ಬೆಟಗಟಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	35.64	35.64	50	32.5	17.5	495544.88	50	35.64	203.17
33	ಮುದ್ದನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	58.2	58.2	65	42.25	22.75	644208.34	65	58.20	264.13
34	ಗುಳ್ಳಳಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	11.34	11.34	9	5.85	3.15	89198.08	9	11.34	36.57
35	ಸೂಲಿಬೆಲೆ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.99	14.99	134	87.1	46.9	1328060.27	134	14.99	544.50
36	ದಂಡು ಪಾಳ್ಯ	BANGALURU(R) / HOSAKOTE	14.18	14.18	17	11.05	5.95	168485.26	17	14.18	69.08
37	ಗುಂಡ್ರಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	12.13	12.13	15	9.75	5.25	148663.46	15	12.13	60.95

38	ಏಕರಾಜಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	19.44	19.44	5	3.25	1.75	49554.49	5	19.44	20.32
39	ಕಂಬಳೀಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	12.56	12.56	19	12.35	6.65	188307.05	19	12.56	77.21
40	ಕೆ.ಸತ್ಯವಾರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.99	14.99	47	30.55	16.45	465812.18	47	14.99	190.98
41	ಬಂಡಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	25.2	25.2	35	22.75	12.25	346881.41	35	25.20	142.22
42	ಕಮ್ಮಸಂದ್ರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	58.3	58.3	60.8	39.52	21.28	602582.57	60.8	58.30	247.06
43	ವಾಬಸಂದ್ರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	5.27	5.27	5	3.25	1.75	49554.49	5	5.27	20.32
44	ಹುಳುವನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	15.12	15.12	18	11.7	6.3	178396.16	18	15.12	73.14
45	ಬೇಗೂರು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	24.71	24.71	40.5	26.325	14.175	401391.35	40.5	24.71	164.57

46	ಯನಗುಂಟೆ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	7.70	7.70	9	5.85	3.15	89198.08	9	7.70	36.57
47	ವೆಂಕಟಾಪುಇರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	6.08	6.08	10	6.5	3.5	99108.98	10	6.08	40.63
48	ಕೊರಟಿ ಊರ ಮುಂದಿನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.58	14.58	11	7.15	3.85	109019.87	11	14.58	44.70
49	ಗುಳ್ಳೇನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	15.2	15.2	25	16.25	8.75	247772.44	25	15.20	101.59
50	ಮಾರಸಂಡಹಳ್ಳಿ ಬ್ಯಾಡಗಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.10	8.10	12	7.8	4.2	118930.77	12	8.10	48.76
51	ಮಾರಸಂಡಹಳ್ಳಿ ಕೊಡಗಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	5.67	5.67	3	1.95	1.05	29732.69	3	5.67	12.19
52	ಗುಟ್ಟಹಳ್ಳಿ ಜೋಡಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	7.29	7.29	3	1.95	1.05	29732.69	3	7.29	12.19
53	ಅಗಸರಹಳ್ಳಿ ಸುಬ್ಬಮನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.05	4.05	3	1.95	1.05	29732.69	3	4.05	12.19

54	ಸತ್ತಿಗಾನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	28.25	28.25	35.2	22.88	12.32	348863.59	35.2	28.25	143.03
55	ಬಂಡಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	11.34	11.34	7	4.55	2.45	69376.28	7	11.34	28.44
56	ಹೆಡಕನಹಳ್ಳಿ ಹೊಸಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.05	4.05	5	3.25	1.75	49554.49	5	4.05	20.32
57	ನರಾಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	16.20	16.20	20	13	7	198217.95	20	16.20	81.27
58	ಒಬಳಾಹಳ್ಳಿ ಹೊಸ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	11.34	11.34	3	1.95	1.05	29732.69	3	11.34	12.19
59	ಕೊಂಡ್ರಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	38.48	38.48	2	1.3	0.7	19821.80	2	38.48	8.13
60	ಎನ್ ಹೊಸಹಳ್ಳಿ ಮಣ್ಣು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	26.33	26.33	13	8.45	4.55	128841.67	13	26.33	52.83
61	ಹೆತ್ತಕ್ಕಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	25.3	25.3	26	16.9	9.1	257683.34	26	25.30	105.65

62	ದೊಡ್ಡಗಾನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	43.34	43.34	52	33.8	18.2	515366.67	52	43.34	211.30
63	ಕೊರಟಿ ಬ್ರಾಹ್ಮಣರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	38.07	38.07	64	41.6	22.4	634297.44	64	38.07	260.06
64	ನಂದಗುಡಿ ಮುತ್ಯಾಲಮ್ಮನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.10	8.10	6	3.9	2.1	59465.39	6	8.10	24.38
65	ಅಗ್ರಹಾರ ವಡ್ಡಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.18	14.18	29	18.85	10.15	287416.03	29	14.18	117.84
66	ಕರಪನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	15.16	15.16	22	14.3	7.7	218039.75	22	15.16	89.40
67	ನಂದಗುಡಿ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	17.01	17.01	16	10.4	5.6	158574.36	16	17.01	65.02
68	ಗೊರವೆನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	12.2	12.2	15	9.75	5.25	148663.46	15	12.20	60.95
69	ಸಿದ್ದನಹಳ್ಳಿ ಬೊಗಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	28.35	28.35	47	30.55	16.45	465812.18	47	28.35	190.98

70	ವೆಂಕಟಾಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	5.67	5.67	8	5.2	2.8	79287.18	8	5.67	32.51
71	ದಿಂಬಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	15.5	15.5	20	13	7	198217.95	20	15.50	81.27
72	ಅರೇಹಳ್ಳಿ	BANGALURU(R) / HOSAKOTE	38.48	38.48	52	33.8	18.2	515366.67	52	38.48	211.30
73	ಇಟ್ಟಸಂದ್ರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.05	4.05	14	9.1	4.9	138752.57	14	4.05	56.89
74	ಚೀಮಸಂದ್ರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	16.2	16.2	22	14.3	7.7	218039.75	22	16.20	89.40
75	ಕೆಂಬಡಿಗಾನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	10.13	10.13	13	8.45	4.55	128841.67	13	10.13	52.83
76	ಕೆಂಬಡಿಗಾನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.46	4.46	5	3.25	1.75	49554.49	5	4.46	20.32
77	ಶಿವನಾಪುರ	BANGALURU(R) / HOSAKOTE	17.42	17.42	52	33.8	18.2	515366.67	52	17.42	211.30

78	ಭೀಮಾಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	20.25	20.25	32	20.8	11.2	317148.72	32	20.25	130.03
79	ಕಾಳಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	23.90	23.90	52	33.8	18.2	515366.67	52	23.90	211.30
80	ಟಿ.ಅಗ್ರಹಾರ	BANGALURU(R) / HOSAKOTE	10.94	10.94	90.5	58.825	31.675	896936.22	90.5	10.94	367.74
81	ಮುತ್ತಕದಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	11.2	11.2	50	32.5	17.5	495544.88	50	11.20	203.17
82	ಯಲಚಹಳ್ಳಿ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	10.94	10.94	110	71.5	38.5	1090198.73	110	10.94	446.98
83	ಚೋಳಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.86	4.86	10	6.5	3.5	99108.98	10	4.86	40.63
84	ಓರೋಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	21.06	21.06	24	15.6	8.4	237861.54	24	21.06	97.52
85	ಜಡಿಗೇನಹಳ್ಳಿ ಕೊಡಗಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	34.83	34.83	51	33.15	17.85	505455.77	51	34.83	207.24

86	ಗೋವಿಂದಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	10.53	10.53	7	4.55	2.45	69376.28	7	10.53	28.44
87	ವಡಿಗೇನಹಳ್ಳಿ ಕೊಡಗಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.58	14.58	18	11.7	6.3	178396.16	18	14.58	73.14
88	ತಿಮ್ಮಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	52	52	68	44.2	23.8	673941.03	68	52.00	276.32
89	ಕಟ್ಟಿಗೇನಹಳ್ಳಿ ಒಡಕು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	29.16	29.16	55	35.75	19.25	545099.36	55	29.16	223.49
90	ಕಾಮರನಹಳ್ಳಿ ಜಂಬು ಕುಂಟೆ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	17.82	17.82	18	11.7	6.3	178396.16	18	17.82	73.14
91	ದೇವರ ಗೊಲಹಳ್ಳಿ ಕೊಪಡಗಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	1.62	1.62	0.33	0.2145	0.1155	3270.60	0.33	1.62	1.34
92	ವಾಗಟ ಅಗ್ರಹಾರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	5.67	5.67	5	3.25	1.75	49554.49	5	5.67	20.32
93	ಕಣೇಕಲ್ಲು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	1.22	1.22	0.5	0.325	0.175	4955.45	0.5	1.22	2.03

94	ಯಳಚಾಮನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	3.24	3.24	24.1	15.665	8.435	238852.63	24.1	3.24	97.93
95	ಪರಮನಹಳ್ಳಿ ಕಾಣಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	25.11	25.11	25	16.25	8.75	247772.44	25	25.11	101.59
96	ಕಟ್ಟಿಗೇನಹಳ್ಳಿ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	12.15	12.15	6	3.9	2.1	59465.39	6	12.15	24.38
97	ದೊಡ್ಡದಾಸರಹಳ್ಳೀ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	17.82	17.82	19	12.35	6.65	188307.05	19	17.82	77.21
98	ದೊಡ್ಡದಾಸರಹಳ್ಳಿ ದನಿಯಾ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.58	14.58	28	18.2	9.8	277505.13	28	14.58	113.78
99	ಮುಗಬಾಳ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	14.58	14.58	15	9.75	5.25	148663.46	15	14.58	60.95
100	ಮುಗಬಾಳ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	32.40	32.40	181	117.65	63.35	1793872.45	181	32.40	735.49
101	ಶಶಿಮಾಕನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	15.23	15.23	18.26	11.869	6.391	180972.99	18.26	15.23	74.20

102	ಗುಟ್ಟಹಳ್ಳಿ ಊರಮುಂದಿನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	3.65	3.65	7	4.55	2.45	69376.28	7	3.65	28.44
103	ಗುಟ್ಟಹಳ್ಳಿ ಬ್ಯಾಮನಕೆರೆ	BANGALURU(R) / HOSAKOTE	3.65	3.65	2	1.3	0.7	19821.80	2	3.65	8.13
104	ದೊಡ್ಡನಲ್ಲಾಲ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	6.48	6.48	73.47	47.7555	25.7145	728153.64	73.47	6.48	298.54
105	ಕಣೇಕಲ್ಲು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	0.81	0.81	0.3	0.195	0.105	2973.27	0.3	0.81	1.22
106	ಬಾಗೂರು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	21.06	21.06	27	17.55	9.45	267594.23	27	21.06	109.71
107	ದೊಡ್ಡಹೊಲಿಗಾ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	38.48	38.48	40	26	14	396435.90	40	38.48	162.54
108	ದೊಡ್ಡನಲ್ಲೂರಹಳ್ಳಿ ಕೊಡಗಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	9.72	9.72	12	7.8	4.2	118930.77	12	9.72	48.76
109	ಸೋಲುರು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	10.13	10.13	15	9.75	5.25	148663.46	15	10.13	60.95

110	ಚಿನ್ನಂಡಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.86	4.86	9	5.85	3.15	89198.08	9	4.86	36.57
111	ಉಮ್ಮಲು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	23.25	23.25	35	22.75	12.25	346881.41	35	23.25	142.22
112	ಸೊಣ್ಣಹಳ್ಳಿ ಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	25.11	25.11	40	26	14	396435.90	40	25.11	162.54
113	ಚಿಕ್ಕತಗ್ಗಲಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	10.94	10.94	12	7.8	4.2	118930.77	12	10.94	48.76
114	ಜಿನ್ನಾಗರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.46	4.46	6	3.9	2.1	59465.39	6	4.46	24.38
115	ದೊಡ್ಡದೇನಹಳ್ಳಿ ನಗಲ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.46	4.46	8	5.2	2.8	79287.18	8	4.46	32.51
116	ತಿಂಡ್ಲು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	15.23	15.23	19	12.35	6.65	188307.05	19	15.23	77.21
117	ದೇವಶೆಟ್ಟಿಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	35.2	35.2	39	25.35	13.65	386525.00	39	35.20	158.48

118	ಕಲ್ಲಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	3.24	3.24	8	5.2	2.8	79287.18	8	3.24	32.51
119	ಮಾಕನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	38.48	38.48	42	27.3	14.7	416257.70	42	38.48	170.67
120	ಹಂದೇನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	21.06	21.06	35	22.75	12.25	346881.41	35	21.06	142.22
121	ಕಾಚರಕನಹಳ್ಳೀ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.10	8.10	25	16.25	8.75	247772.44	25	8.10	101.59
122	ಕಾಣೇಕಲ್ಲು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.91	8.91	6	3.9	2.1	59465.39	6	8.91	24.38
123	ಹೆಮ್ಮಂಡಹಳ್ಳಿ	BANGALURU(R) / HOSAKOTE	9.23	9.23	11	7.15	3.85	109019.87	11	9.23	44.70
124	ಭಕ್ತರಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	7.52	7.52	10	6.5	3.5	99108.98	10	7.52	40.63
125	ಸಮೇತನಹಳ್ಳಿ ಂದಕನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.10	8.10	5	3.25	1.75	49554.49	5	8.10	20.32

126	ಬೋದನಾಹೊಸಹಳ್ಳಿ ಕಎರೆ	BANGALURU(R) / HOSAKOTE	8.51	8.51	58	37.7	20.3	574832.06	58	8.51	235.68
127	ಅನುಗೊಂಡನಹಳ್ಳಿ	BANGALURU(R) / HOSAKOTE	16.32	16.32	36	23.4	12.6	356792.31	36	16.32	146.28
128	ಯಡಗೊಂಡನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	34.43	34.43	16	10.4	5.6	158574.36	16	34.43	65.02
129	ಲಕ್ಕೊಂಡಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.5	8.5	9	5.85	3.15	89198.08	9	8.50	36.57
130	ಬ್ಯಾಲಹಳ್ಳಿ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	6.08	6.08	12	7.8	4.2	118930.77	12	6.08	48.76
131	ಬ್ಯಾಲಹಳ್ಳಿ ಹಣೇ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	6.08	6.08	9	5.85	3.15	89198.08	9	6.08	36.57
132	ಓಬಳಾಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	23.49	23.49	10	6.5	3.5	99108.98	10	23.49	40.63
133	ಹಂದೇನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	21.06	21.06	7	4.55	2.45	69376.28	7	21.06	28.44

134	ಸೋಮಲಾಘುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.51	8.51	7	4.55	2.45	69376.28	7	8.51	28.44
135	ಗೊಣಕನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	9.6	9.6	10.12	6.578	3.542	100298.28	10.12	9.60	41.12
136	ಲಿಂಗದೀರ ಮಲ್ಲಸಂದ್ರ ಕರೆ	BANGALURU(R) / HOSAKOTE	5.27	5.27	8	5.2	2.8	79287.18	8	5.27	32.51
137	ಮಾದಿಹಳ್ಳೀ ವರದನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	4.05	4.05	8	5.2	2.8	79287.18	8	4.05	32.51
138	ದೇವನಗುಂದಿ ದೊಡ್ಡಕೆರೆ	BANGALURU(R) / HOSAKOTE	13.37	13.37	16	10.4	5.6	158574.36	16	13.37	65.02
139	ದೊಡ್ಡತಗ್ಗಲಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	15.12	15.12	18	11.7	6.3	178396.16	18	15.12	73.14
140	ದೇವನಗುಂದಿ ಮಾದಿಗನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	18.63	18.63	8	5.2	2.8	79287.18	8	18.63	32.51
141	ದೇವನಗುಂದಿ ಪುಲ್ಲನಗೆರೆ ಕೆರರೆ	BANGALURU(R) / HOSAKOTE	14.58	14.58	18	11.7	6.3	178396.16	18	14.58	73.14

142	ನಾರಾಯಣ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	6.08	6.08	9	5.85	3.15	89198.08	9	6.08	36.57
143	ತತ್ತನುರು ಚಿಕ್ಕ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	29.97	29.97	21	13.65	7.35	208128.85	21	29.97	85.33
144	ತಗ್ಗಲಿ ಹೊಹಳ್ಳೀ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	18.12	18.12	23	14.95	8.05	227950.64	23	18.12	93.46
145	ತತ್ತ್ನೂರು ಬಾಲಮ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	10.13	10.13	16	10.4	5.6	158574.36	16	10.13	65.02
146	ತಿರುವರಂಗ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	19.85	19.85	11	7.15	3.85	109019.87	11	19.85	44.70
147	ಗಣಗಲೂರು ಅಪ್ಪುರಾವ್ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	17.82	17.82	11	7.15	3.85	109019.87	11	17.82	44.70
148	ಗಣಗಲೂರು ವಟ್ಟೆ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	6.08	6.08	9	5.85	3.15	89198.08	9	6.08	36.57
149	ಗಣಗಲುರು ನಗಲ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	7.70	7.70	3	1.95	1.05	29732.69	3	7.70	12.19

150	ಬೇಗೂರು ಕೆರೆ	BANGALURU(R) / HOSAKOTE	17.23	17.23	23	14.95	8.05	227950.64	23	17.23	93.46
151	ಕರಬೀರನಹೊಸಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	23.5	23.5	25	16.25	8.75	247772.44	25	23.50	101.59
152	ಗುಂಡುರು ಚಿಕ್ಕ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	25.36	25.36	36	23.4	12.6	356792.31	36	25.36	146.28
153	ಗುಂಡೂರುರ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	30.78	30.78	45	29.25	15.75	445990.39	45	30.78	182.86
154	ಕಲಲ್ಕುಂಟೆ ಅಗ್ರಹಾರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	17.82	17.82	23	14.95	8.05	227950.64	23	17.82	93.46
155	ಕಲ್ಕುಂಟೆ ಅಗ್ರಹಾರ ಬಾಲನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	7.32	7.32	9.3	6.045	3.255	92171.35	9.3	7.32	37.79
156	ನಾರಾಯಣ ಅಣೆ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	6.08	6.08	6	3.9	2.1	59465.39	6	6.08	24.38
157	ಅನಾಥ ಸಮುದ್ರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.32	8.32	15	9.75	5.25	148663.46	15	8.32	60.95

158	ಖಾಜಿಹೊಸಹಳ್ಳಿ ಎರೆ	BANGALURU(R) / HOSAKOTE	7.85	7.85	9.25	6.0125	3.2375	91675.80	9.25	7.85	37.59
159	ಹರೇಹಳ್ಳಿ ರಂಗನಾಥ ಸಮುದ್ರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	9.23	9.23	12.12	7.878	4.242	120120.08	12.12	9.23	49.25
160	ಮುತ್ಕೂರು ಊರ ಮುಂದಿನ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	9	9	11	7.15	3.85	109019.87	11	9.00	44.70
161	ಮುತ್ಸಂದ್ರ ದೊಡ್ಡ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	19.85	19.85	14	9.1	4.9	138752.57	14	19.85	56.89
162	ಮುತ್ಸಂದ್ರ ಚಿಕ್ಕ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	29.97	29.97	32	20.8	11.2	317148.72	32	29.97	130.03
163	ಗುಳ್ಳಕಾಯಿ ಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	15	15	25	16.25	8.75	247772.44	25	15.00	101.59
164	ಮುದ್ದನಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	8.91	8.91	11	7.15	3.85	109019.87	11	8.91	44.70
165	ಸಿದ್ದನಾಪುರ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	3.24	3.24	9	5.85	3.15	89198.08	9	3.24	36.57

166	ಬೋದನಹೊಸಹಳ್ಳಿ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	19	19	22	14.3	7.7	218039.75	22	19.00	89.40
167	ಮಾರನಗೆರೆ ಕೆರೆ	BANGALURU(R) / HOSAKOTE	22	22	28	18.2	9.8	277505.13	28	22.00	113.78
			2653.79	**2653.79**	**4163.45**	**2706.24**	**1457.21**	**41263535.20**	**4163.45**	**2653.79**	**16918.05**

Chapter 5 : Strategic Action plan for Irrigation in District Under PMKSY :

District : Bangalore Rural
PRE Sub Division Hosakote

Sub Division :

Sl. No.		Name of the Blocks / sub Districts	Concerned Ministry / Department	Component	(Activity) Name of M I tanks	Total Number /Capacity (cum)	Command Area / Irriagation Potential (ha)	Period of Implementation (5 / 7 yrs)	Estimated Cost (in lakhs.)
		Hosakote	MoWR	AIBP	**IMPROVEMENT OF BUND,FEEDER CHANNEL , NALA IMPROVEMENT AND OTHER WORKS**				
3	1	Hosakote	MoWR	AIBP	ದಳಸಗೆರೆ ಚಿಕ್ಕ ಕೆರೆ	**141500**	**7.29**	**5**	**60.32**
4	2	Hosakote	MoWR	AIBP	ದಳಸಗೆರೆ ದೊಡ್ಡಕೆರೆ	**933900**	**20.66**	**5**	**174.09**

5	3	Hosakote	MoWR	AIBP	ಚಿಕ್ಕೊಂಡಹಳಿ(ದೊಡ್ಡ ಕೆರೆ)	**226400**	**6.08**	**5**	**72.51**
6	4	Hosakote	MoWR	AIBP	ತರಬಹಳ್ಳಿ ಅತ್ತಿಕೆರೆ	**424500**	**12.96**	**5**	**100.95**
7	5	Hosakote	MoWR	AIBP	ನೆಲವಾಗಿಲು (ದೊಡ್ಡ ಕೆರೆ)	**1463110**	**38.88**	**5**	**250.08**
7.1	6	Hosakote	MoWR	AIBP	ಹಿಂಡಿಗನಾಳ (ಕುಂಬಾರನಕೆರೆ)	**509400**	**15.39**	**5**	**113.14**
7.2	7	Hosakote	MoWR	AIBP	ಬನಹಳ್ಳಿ	**226400**	**4.05**	**5**	**72.51**
8	8	Hosakote	MoWR	AIBP	ಗೆದ್ದಲಹಳ್ಳಿಪುರ (ತೀರ್ಥ ಹಳ್ಳಿ ಕೆರೆ)	**566000**	**13.37**	**5**	**121.27**
9	9	Hosakote	MoWR	AIBP	ಗೆದ್ದಲಹಳ್ಳಿಪುರ (ದೊಡ್ಡ ಕೆರೆ)	**1132000**	**15.80**	**5**	**202.54**
10	10	Hosakote	MoWR	AIBP	ಸಿದ್ದನಹಳ್ಳಿ (ಬೊಗಳಿ ಕೆರೆ)	**1330100**	**28.35**	**5**	**230.98**
	11	Hosakote	MoWR	AIBP	ಹಿಂಡಿಗನಾಳ	**849000.00**	**20**	**5**	**161.90**
	12	Hosakote	MoWR	AIBP	ಎ.ವಡ್ಡಹಳ್ಳಿ	**424500.00**	**14.18**	**5**	**100.95**
	13	Hosakote	MoWR	AIBP	ನಡವತ್ತಿ ಯಲವು ಕೆರೆ	**226400.00**	**20.66**	**5**	**72.51**
	14	Hosakote	MoWR	AIBP	ಅಪ್ಪಾಜಿಪುರ ಕೆರೆ	**84900.00**	**1.62**	**5**	**52.19**
	15	Hosakote	MoWR	AIBP	ದೊಡ್ಡಗಟ್ಟಿಗನಬ್ಬೆ ಕೆರೆ	**424500.00**	**10.53**	**5**	**100.95**
11	16	Hosakote	MoWR	AIBP	ಪೆತ್ತನಹಳ್ಳಿ ಕೆರೆ	**707500.00**	**23.49**	**5**	**141.59**
12	17	Hosakote	MoWR	AIBP	ಗಣಗಲು ಕೆರೆ	**254700**	**9.32**	**5**	**76.57**
13	18	Hosakote	MoWR	AIBP	ಕಣ್ಣೂರಹಳ್ಳಿ ಕೆರೆ	**566000**	**11.75**	**5**	**121.27**
14	19	Hosakote	MoWR	AIBP	ದಂಡುಪಾಳ್ಯ ಯಲ್ಲಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	**452800**	**14.18**	**5**	**105.02**
15	20	Hosakote	MoWR	AIBP	ಚೀಮಂಡಹಳ್ಳಿ ಕಲ್ಲು ಕೆರೆ	**113200**	**6.48**	**5**	**56.25**
16	21	Hosakote	MoWR	AIBP	ಓಬಳಹಳ್ಳಿ	**339600**	**11.34**	**5**	**88.76**
17	22	Hosakote	MoWR	AIBP	ಆಲಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	**452800**	**5.27**	**5**	**105.02**

17	23	Hosakote	MoWR	AIBP	ಹೊಸಕೋಟೆ ಚಿಕ್ಕ ಕೆರೆ	**7895700**	**14.99**	**5**	**1173.71**
	24	Hosakote	MoWR	AIBP	ಹರಳೂರು ಕೆರೆ	**226400**	**7.70**	**5**	**72.51**
	25	Hosakote	MoWR	AIBP	ಹೆತ್ತಕ್ಕಿ	**226400**	**6.48**	**5**	**72.51**
	26	Hosakote	MoWR	AIBP	ವಡ್ಡಹಳ್ಳಿ ಕೆರೆ	**1358400**	**29.32**	**5**	**235.05**
	27	Hosakote	MoWR	AIBP	ಗೊರವಿನಹಳ್ಳಿ'	**113200**	**3.65**	**5**	**56.25**
	28	Hosakote	MoWR	AIBP	ಹೊಸಹಳ್ಳಿ ಕೆರೆ	**226400**	**5.27**	**5**	**72.51**
17	29	Hosakote	MoWR	AIBP	ಇಸ್ತೂರು ಅಮಾನಿಹೆಕೆ	**707500**	**40.10**	**5**	**141.59**
	30	Hosakote	MoWR	AIBP	ಚಿಕ್ಕ ಕುರುಬರಹಳ್ಳೀ ಕೆರೆ	**1556500**	**30.2**	**5**	**263.49**
	31	Hosakote	MoWR	AIBP	ದೊಡ್ಡರಳಗೆರೆ ಕೆರೆ	**1754600**	**26.73**	**5**	**291.94**
	32	Hosakote	MoWR	AIBP	ಬೆಟಗಟಹಳ್ಳಿ ಕೆರೆ	**1415000**	**35.64**	**5**	**243.17**
	33	Hosakote	MoWR	AIBP	ಮುದ್ದನಹಳ್ಳಿ ಕೆರೆ	**1839500**	**58.2**	**5**	**304.13**
	34	Hosakote	MoWR	AIBP	ಗುಳ್ಳಳಹಳ್ಳಿ ಕೆರೆ	**254700**	**11.34**	**5**	**76.57**
17	35	Hosakote	MoWR	AIBP	ಸೂಲಿಬೆಲೆ ದೊಡ್ಡ ಕೆರೆ	**3792200**	**14.99**	**5**	**584.50**
	36	Hosakote	MoWR	AIBP	ದಂಡು ಪಾಳ್ಯ	**481100**	**14.18**	**5**	**109.08**
	37	Hosakote	MoWR	AIBP	ಗುಂಡ್ರಹಳ್ಳಿ ಕೆರೆ	**424500**	**12.13**	**5**	**100.95**
	38	Hosakote	MoWR	AIBP	ಏಕರಾಜಪುರ ಕೆರೆ	**141500**	**19.44**	**5**	**60.32**
	39	Hosakote	MoWR	AIBP	ಕಂಬಳೀಪುರ ಕೆರೆ	**537700**	**12.56**	**5**	**117.21**
	40	Hosakote	MoWR	AIBP	ಕೆ.ಸತ್ಯವಾರ ಕೆರೆ	**1330100**	**14.99**	**5**	**230.98**
17	41	Hosakote	MoWR	AIBP	ಬಂಡಹಳ್ಳಿ ಕೆರೆ	**990500**	**25.2**	**5**	**182.22**
	42	Hosakote	MoWR	AIBP	ಕಮ್ಮಸಂದ್ರ ಕೆರೆ	**1720640**	**58.3**	**5**	**287.06**
	43	Hosakote	MoWR	AIBP	ವಾಬಸಂದ್ರ ಕೆರೆ	**141500**	**5.27**	**5**	**60.32**
	44	Hosakote	MoWR	AIBP	ಹುಳುವನಹಳ್ಳಿ ಕೆರೆ	**509400**	**15.12**	**5**	**113.14**
	45	Hosakote	MoWR	AIBP	ಬೇಗೂರು ಕೆರೆ	**1146150**	**24.71**	**5**	**204.57**

	46	Hosakote	MoWR	AIBP	ಯನಗುಂಟೆ ಕೆರೆ	**254700**	**7.70**	**5**	**76.57**
18	47	Hosakote	MoWR	AIBP	ವೆಂಕಟಾಪುಇರ ಕೆರೆ	**283000**	**6.08**	**5**	**80.63**
	48	Hosakote	MoWR	AIBP	ಕೊರಟಿ ಊರ ಮುಂದಿನ ಕೆರೆ	**311300**	**14.58**	**5**	**84.70**
	49	Hosakote	MoWR	AIBP	ಗುಳ್ಳೇನಹಳ್ಳಿ ಕೆರೆ	**707500**	**15.2**	**5**	**141.59**
	50	Hosakote	MoWR	AIBP	ಮಾರಸಂಡಹಳ್ಳಿ ಬ್ಯಾಡಗಿ ಕೆರೆ	**339600**	**8.10**	**5**	**88.76**
	51	Hosakote	MoWR	AIBP	ಮಾರಸಂಡಹಳ್ಳಿ ಕೊಡಗಿ ಕೆರೆ	**84900**	**5.67**	**5**	**52.19**
	52	Hosakote	MoWR	AIBP	ಗುಟ್ಟಹಳ್ಳಿ ಜೋಡಿ ಕೆರೆ	**84900**	**7.29**	**5**	**52.19**
18	53	Hosakote	MoWR	AIBP	ಅಗಸರಹಳ್ಳಿ ಸುಬ್ಬಮನ ಕೆರೆ	**84900**	**4.05**	**5**	**52.19**
	54	Hosakote	MoWR	AIBP	ಸತ್ತಿಗಾನ ಕೆರೆ	**996160**	**28.25**	**5**	**183.03**
	55	Hosakote	MoWR	AIBP	ಬಂಡಹಳ್ಳಿ ಕೆರೆ	**198100**	**11.34**	**5**	**68.44**
	56	Hosakote	MoWR	AIBP	ಹೆಡಕನಹಳ್ಳಿ ಹೊಸಕೆರೆ	**141500**	**4.05**	**5**	**60.32**
	57	Hosakote	MoWR	AIBP	ನರಾಪುರ ಕೆರೆ	**566000**	**16.20**	**5**	**121.27**
	58	Hosakote	MoWR	AIBP	ಒಬಳಾಹಳ್ಳಿ ಹೊಸ ಕೆರೆ	**84900**	**11.34**	**5**	**52.19**
	59	Hosakote	MoWR	AIBP	ಕೊಂಡ್ರಹಳ್ಳಿ ಕೆರೆ	**56600**	**38.48**	**5**	**48.13**
	60	Hosakote	MoWR	AIBP	ಎನ್ ಹೊಸಹಳ್ಳಿ ಮಣ್ಣು ಕೆರೆ	**367900**	**26.33**	**5**	**92.83**
	61	Hosakote	MoWR	AIBP	ಹೆತ್ತಕ್ಕಿ ಕೆರೆ	**735800**	**25.3**	**5**	**145.65**
	62	Hosakote	MoWR	AIBP	ದೊಡ್ಡಗಾನಹಳ್ಳಿ ಕೆರೆ	**1471600**	**43.34**	**5**	**251.30**
	63	Hosakote	MoWR	AIBP	ಕೊರಟಿ ಬ್ರಾಹ್ಮಣರ ಕೆರೆ	**1811200**	**38.07**	**5**	**300.06**
	64	Hosakote	MoWR	AIBP	ನಂದಗುಡಿ ಮುತ್ಯಾಲಮ್ಮನ ಕೆರೆ	**169800**	**8.10**	**5**	**64.38**
	65	Hosakote	MoWR	AIBP	ಅಗ್ರಹಾರ ವಡ್ಡಹಳ್ಳಿ ಕೆರೆ	**820700**	**14.18**	**5**	**157.84**
	66	Hosakote	MoWR	AIBP	ಕರಪನಹಳ್ಳಿ ಕೆರೆ	**622600**	**15.16**	**5**	**129.40**

	67	Hosakote	MoWR	AIBP	ನಂದಗುಡಿ ದೊಡ್ಡ ಕೆರೆ	**452800**	**17.01**	**5**	**105.02**
	68	Hosakote	MoWR	AIBP	ಗೊರವೆನಹಳ್ಳಿ ಕೆರೆ	**424500**	**12.2**	**5**	**100.95**
	69	Hosakote	MoWR	AIBP	ಸಿದ್ದನಹಳ್ಳಿ ಬೊಗಳಿ ಕೆರೆ	**1330100**	**28.35**	**5**	**230.98**
	70	Hosakote	MoWR	AIBP	ವೆಂಕಟಾಪುರ ಕೆರೆ	**226400**	**5.67**	**5**	**72.51**
18	71	Hosakote	MoWR	AIBP	ದಿಂಬಹಳ್ಳಿ ಕೆರೆ	**566000**	**15.5**	**5**	**121.27**
18	72	Hosakote	MoWR	AIBP	ಅರೇಹಳ್ಳಿ	**1471600**	**38.48**	**5**	**251.30**
	73	Hosakote	MoWR	AIBP	ಇಟ್ಟಸಂದ್ರ ಕೆರೆ	**396200**	**4.05**	**5**	**96.89**
	74	Hosakote	MoWR	AIBP	ಚೀಮಸಂದ್ರ ಕೆರೆ	**622600**	**16.2**	**5**	**129.40**
	75	Hosakote	MoWR	AIBP	ಕೆಂಬಡಿಗಾನಹಳ್ಳಿ ಕೆರೆ	**367900**	**10.13**	**5**	**92.83**
	76	Hosakote	MoWR	AIBP	ಕೆಂಬಡಿಗಾನಹಳ್ಳಿ ಕೆರೆ	**141500**	**4.46**	**5**	**60.32**
	77	Hosakote	MoWR	AIBP	ಶಿವನಾಪುರ	**1471600**	**17.42**	**5**	**251.30**
18	78	Hosakote	MoWR	AIBP	ಭೀಮಾಪುರ ಕೆರೆ	**905600**	**20.25**	**5**	**170.03**
	79	Hosakote	MoWR	AIBP	ಕಾಳಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	**1471600**	**23.90**	**5**	**251.30**
	80	Hosakote	MoWR	AIBP	ಟಿ.ಅಗ್ರಹಾರ	**2561150**	**10.94**	**5**	**407.74**
	81	Hosakote	MoWR	AIBP	ಮುತ್ತಕದಹಳ್ಳಿ ಕೆರೆ	**1415000**	**11.2**	**5**	**243.17**
	82	Hosakote	MoWR	AIBP	ಯಲಚಹಳ್ಳಿ ದೊಡ್ಡ ಕೆರೆ	**3113000**	**10.94**	**5**	**486.98**
	83	Hosakote	MoWR	AIBP	ಚೋಳಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	**283000**	**4.86**	**5**	**80.63**
18	84	Hosakote	MoWR	AIBP	ಓರೋಹಳ್ಳಿ ಕೆರೆ	**679200**	**21.06**	**5**	**137.52**
	85	Hosakote	MoWR	AIBP	ಜಡಿಗೇನಹಳ್ಳಿ ಕೊಡಗಿ ಕೆರೆ	**1443300**	**34.83**	**5**	**247.24**
	86	Hosakote	MoWR	AIBP	ಗೋವಿಂದಪುರ ಕೆರೆ	**198100**	**10.53**	**5**	**68.44**
	87	Hosakote	MoWR	AIBP	ವಡಿಗೇನಹಳ್ಳಿ ಕೊಡಗಿ ಕೆರೆ	**509400**	**14.58**	**5**	**113.14**
	88	Hosakote	MoWR	AIBP	ತಿಮ್ಮಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	**1924400**	**52**	**5**	**316.32**
	89	Hosakote	MoWR	AIBP	ಕಟ್ಟಿಗೇನಹಳ್ಳಿ ಒಡಕು ಕೆರೆ	**1556500**	**29.16**	**5**	**263.49**

	90	Hosakote	MoWR	AIBP	ಕಾಮರನಹಳ್ಳಿ ಜಂಬು ಕುಂಟೆ ಕೆರೆ	**509400**	**17.82**	**5**	**113.14**
	91	Hosakote	MoWR	AIBP	ದೇವರ ಗೊಲಹಳ್ಳಿ ಕೊಪಡಗಿ ಕೆರೆ	**9339**	**1.62**	**5**	**41.34**
18	92	Hosakote	MoWR	AIBP	ವಾಗಟ ಅಗ್ರಹಾರ ಕೆರೆ	**141500**	**5.67**	**5**	**60.32**
	93	Hosakote	MoWR	AIBP	ಕಣೇಕಲ್ಲು ಕೆರೆ	**14150**	**1.22**	**5**	**42.03**
	94	Hosakote	MoWR	AIBP	ಯಳಚಾಮನಹಳ್ಳಿ ಕೆರೆ	**682030**	**3.24**	**5**	**137.93**
	95	Hosakote	MoWR	AIBP	ಪರಮನಹಳ್ಳಿ ಕಾಣಿ ಕೆರೆ	**707500**	**25.11**	**5**	**141.59**
	96	Hosakote	MoWR	AIBP	ಕಟ್ಟಿಗೇನಹಳ್ಳಿ ದೊಡ್ಡ ಕೆರೆ	**169800**	**12.15**	**5**	**64.38**
	97	Hosakote	MoWR	AIBP	ದೊಡ್ಡದಾಸರಹಳ್ಳೀ ಕೆರೆ	**537700**	**17.82**	**5**	**117.21**
19	98	Hosakote	MoWR	AIBP	ದೊಡ್ಡದಾಸರಹಳ್ಳಿ ದನಿಯಾ ಕೆರೆ	**792400**	**14.58**	**5**	**153.78**
	99	Hosakote	MoWR	AIBP	ಮುಗಬಾಳ ದೊಡ್ಡ ಕೆರೆ	**424500**	**14.58**	**5**	**100.95**
	100	Hosakote	MoWR	AIBP	ಮುಗಬಾಳ ದೊಡ್ಡ ಕೆರೆ	**5122300**	**32.40**	**5**	**775.49**
	101	Hosakote	MoWR	AIBP	ಶಶಿಮಾಕನಹಳ್ಳಿ ಕೆರೆ	**516758**	**15.23**	**5**	**114.20**
	102	Hosakote	MoWR	AIBP	ಗುಟ್ಟಹಳ್ಳಿ ಊರಮುಂದಿನ ಕೆರೆ	**198100**	**3.65**	**5**	**68.44**
	103	Hosakote	MoWR	AIBP	ಗುಟ್ಟಹಳ್ಳಿ ಬ್ಯಾಮನಕೆರೆ	**56600**	**3.65**	**5**	**48.13**
19	104	Hosakote	MoWR	AIBP	ದೊಡ್ಡನಲ್ಲಾಲ ಕೆರೆ	**2079201**	**6.48**	**5**	**338.54**
	105	Hosakote	MoWR	AIBP	ಕಣೇಕಲ್ಲು ಕೆರೆ	**8490**	**0.81**	**5**	**41.22**
	106	Hosakote	MoWR	AIBP	ಬಾಗೂರು ಕೆರೆ	**764100**	**21.06**	**5**	**149.71**
	107	Hosakote	MoWR	AIBP	ದೊಡ್ಡಹೊಲಿಗಾ ಕೆರೆ	**1132000**	**38.48**	**5**	**202.54**
	108	Hosakote	MoWR	AIBP	ದೊಡ್ಡನಲ್ಲೂರಹಳ್ಳಿ ಕೊಡಗಿ ಕೆರೆ	**339600**	**9.72**	**5**	**88.76**
	109	Hosakote	MoWR	AIBP	ಸೋಲುರು ಕೆರೆ	**424500**	**10.13**	**5**	**100.95**

	110	Hosakote	MoWR	AIBP	ಚಿನ್ನಂಡಹಳ್ಳಿ ಕೆರೆ	**254700**	**4.86**	**5**	**76.57**
	111	Hosakote	MoWR	AIBP	ಉಮ್ಮಲು ಕೆರೆ	**990500**	**23.25**	**5**	**182.22**
	112	Hosakote	MoWR	AIBP	ಸೊಣ್ಣಹಳ್ಳಿ ಪುರ ಕೆರೆ	**1132000**	**25.11**	**5**	**202.54**
	113	Hosakote	MoWR	AIBP	ಚಿಕ್ಕತಗ್ಗಲಿ ಕೆರೆ	**339600**	**10.94**	**5**	**88.76**
	114	Hosakote	MoWR	AIBP	ಜಿನ್ನಾಗರ ಕೆರೆ	**169800**	**4.46**	**5**	**64.38**
	115	Hosakote	MoWR	AIBP	ದೊಡ್ಡದೇನಹಳ್ಳಿ ನಗಲ ಕೆರೆ	**226400**	**4.46**	**5**	**72.51**
	116	Hosakote	MoWR	AIBP	ತಿಂಡ್ಲು ಕೆರೆ	**537700**	**15.23**	**5**	**117.21**
	117	Hosakote	MoWR	AIBP	ದೇವಶೆಟ್ಟಿಹಳ್ಳಿ ಕೆರೆ	**1103700**	**35.2**	**5**	**198.48**
	118	Hosakote	MoWR	AIBP	ಕಲ್ಲಹಳ್ಳಿ ಕೆರೆ	**226400**	**3.24**	**5**	**72.51**
	119	Hosakote	MoWR	AIBP	ಮಾಕನಹಳ್ಳಿ ಕೆರೆ	**1188600**	**38.48**	**5**	**210.67**
	120	Hosakote	MoWR	AIBP	ಹಂದೇನಹಳ್ಳಿ ಕೆರೆ	**990500**	**21.06**	**5**	**182.22**
	121	Hosakote	MoWR	AIBP	ಕಾಚರಕನಹಳ್ಳೀ ಕೆರೆ	**252830**	**8.10**	**5**	**141.59**
	122	Hosakote	MoWR	AIBP	ಕಾಣೇಕಲ್ಲು ಕೆರೆ	**169800**	**8.91**	**5**	**64.38**
	123	Hosakote	MoWR	AIBP	ಹೆಮ್ಮಂಡಹಳ್ಳಿ	**311300**	**9.23**	**5**	**84.70**
	124	Hosakote	MoWR	AIBP	ಭಕ್ತರಹಳ್ಳಿ ಕೆರೆ	**283000**	**7.52**	**5**	**80.63**
	125	Hosakote	MoWR	AIBP	ಸಮೇತನಹಳ್ಳಿ ಂದಕನ ಕೆರೆ	**141500**	**8.10**	**5**	**60.32**
	126	Hosakote	MoWR	AIBP	ಬೋದನಾಹೊಸಹಳ್ಳಿ ಕಎರೆ	**1641400**	**8.51**	**5**	**275.68**
	127	Hosakote	MoWR	AIBP	ಅನುಗೊಂಡನಹಳ್ಳಿ	**1018800**	**16.32**	**5**	**186.28**
	128	Hosakote	MoWR	AIBP	ಯಡಗೊಂಡನಹಳ್ಳಿ ಕೆರೆ	**452800**	**34.43**	**5**	**105.02**
19	129	Hosakote	MoWR	AIBP	ಲಕ್ಕೊಂಡಹಳ್ಳಿ ಕೆರೆ	**254700**	**8.5**	**5**	**76.57**
	130	Hosakote	MoWR	AIBP	ಬ್ಯಾಲಹಳ್ಳಿ ದೊಡ್ಡ ಕೆರೆ	**339600**	**6.08**	**5**	**88.76**
	131	Hosakote	MoWR	AIBP	ಬ್ಯಾಲಹಳ್ಳಿ ಹಣೇ ಕೆರೆ	**254700**	**6.08**	**5**	**76.57**
	132	Hosakote	MoWR	AIBP	ಓಬಳಾಪುರ ಕೆರೆ	**283000**	**23.49**	**5**	**80.63**

	133	Hosakote	MoWR	AIBP	ಹಂದೇನಹಳ್ಳಿ ಕೆರೆ	**198100**	**21.06**	**5**	**68.44**
	134	Hosakote	MoWR	AIBP	ಸೋಮಲಾಘುರ ಕೆರೆ	**198100**	**8.51**	**5**	**68.44**
20	135	Hosakote	MoWR	AIBP	ಗೊಣಕನಹಳ್ಳಿ ಕೆರೆ	**286396**	**9.6**	**5**	**81.12**
	136	Hosakote	MoWR	AIBP	ಲಿಂಗದೀರ ಮಲ್ಲಸಂದ್ರ ಕರೆ	**226400**	**5.27**	**5**	**72.51**
	137	Hosakote	MoWR	AIBP	ಮಾದಿಹಳ್ಳೀ ವರದನ ಕೆರೆ	**226400**	**4.05**	**5**	**72.51**
	138	Hosakote	MoWR	AIBP	ದೇವನಗುಂದಿ ದೊಡ್ಡಕೆರೆ	**452800**	**13.37**	**5**	**105.02**
	139	Hosakote	MoWR	AIBP	ದೊಡ್ಡತಗ್ಗಲಿ ಕೆರೆ	**509400**	**15.12**	**5**	**113.14**
	140	Hosakote	MoWR	AIBP	ದೇವನಗುಂದಿ ಮಾದಿಗನ ಕೆರೆ	**226400**	**18.63**	**5**	**72.51**
	141	Hosakote	MoWR	AIBP	ದೇವನಗುಂದಿ ಪುಲ್ಲನಗೆರೆ ಕೆರರೆ	**509400**	**14.58**	**5**	**113.14**
20	142	Hosakote	MoWR	AIBP	ನಾರಾಯಣ ಕೆರೆ	**254700**	**6.08**	**5**	**76.57**
	143	Hosakote	MoWR	AIBP	ತತ್ತನುರು ಚಿಕ್ಕ ಕೆರೆ	**594300**	**29.97**	**5**	**125.33**
20	144	Hosakote	MoWR	AIBP	ತಗ್ಗಲಿ ಹೊಹಳ್ಳೀ ಕೆರೆ	**650900**	**18.12**	**5**	**133.46**
20	145	Hosakote	MoWR	AIBP	ತತ್ತನೂರು ಬಾಲಮ ಕೆರೆ	**452800**	**10.13**	**5**	**105.02**
	146	Hosakote	MoWR	AIBP	ತಿರುವರಂಗ ಕೆರೆ	**311300**	**19.85**	**5**	**84.70**
	147	Hosakote	MoWR	AIBP	ಗಣಗಲೂರು ಅಪ್ಪರಾವ್ ಕೆರೆ	**311300**	**17.82**	**5**	**84.70**
	148	Hosakote	MoWR	AIBP	ಗಣಗಲೂರು ವಟ್ಟಿ ಕೆರೆ	**254700**	**6.08**	**5**	**76.57**
	149	Hosakote	MoWR	AIBP	ಗಣಗಲುರು ನಗಲ ಕೆರೆ	**84900**	**7.70**	**5**	**52.19**
	150	Hosakote	MoWR	AIBP	ಬೇಗೂರು ಕೆರೆ	**650900**	**17.23**	**5**	**133.46**
	151	Hosakote	MoWR	AIBP	ಕರಬೀರನಹೊಸಹಳ್ಳಿ ಕೆರೆ	**707500**	**23.5**	**5**	**141.59**
	152	Hosakote	MoWR	AIBP	ಗುಂಡುರು ಚಿಕ್ಕ ಕೆರೆ	**1018800**	**25.36**	**5**	**186.28**
	153	Hosakote	MoWR	AIBP	ಗುಂಡೂರುರ ದೊಡ್ಡ ಕೆರೆ	**1273500**	**30.78**	**5**	**222.86**

	154	Hosakote	MoWR	AIBP	ಕಲಲ್ಕುಂಟೆ ಅಗ್ರಹಾರ ಕೆರೆ	**650900**	**17.82**	**5**	**133.46**
	155	Hosakote	MoWR	AIBP	ಕಲ್ಕುಂಟೆ ಅಗ್ರಹಾರ ಬಾಲನ ಕೆರೆ	**260400**	**7.32**	**5**	**77.79**
	156	Hosakote	MoWR	AIBP	ನಾರಾಯಣ ಅಣೆ ಕೆರೆ	**169800**	**6.08**	**5**	**64.38**
	157	Hosakote	MoWR	AIBP	ಅನಾಥ ಸಮುದ್ರ ಕೆರೆ	**424500**	**8.32**	**5**	**100.95**
	158	Hosakote	MoWR	AIBP	ಖಾಜಿಹೊಸಹಳ್ಳಿ ಎರೆ	**84900**	**7.85**	**5**	**77.59**
	159	Hosakote	MoWR	AIBP	ಹರೇಹಳ್ಳಿ ರಂಗನಾಥ ಸಮುದ್ರ ಕೆರೆ	**342996**	**9.23**	**5**	**89.25**
	160	Hosakote	MoWR	AIBP	ಮುತ್ಕೂರು ಊರ ಮುಂದಿನ ಕೆರೆ	**311300**	**9**	**5**	**84.70**
	161	Hosakote	MoWR	AIBP	ಮುತ್ಸಂದ್ರ ದೊಡ್ಡ ಕೆರೆ	**396200**	**19.85**	**5**	**96.89**
	162	Hosakote	MoWR	AIBP	ಮುತ್ಸಂದ್ರ ಚಿಕ್ಕ ಕೆರೆ	**905600**	**29.97**	**5**	**170.03**
	163	Hosakote	MoWR	AIBP	ಗುಳ್ಳಕಾಯಿ ಪುರ ಕೆರೆ	**707500**	**15**	**5**	**141.59**
	164	Hosakote	MoWR	AIBP	ಮುದ್ದನಹಳ್ಳಿ ಕೆರೆ	**311300**	**8.91**	**5**	**84.70**
	165	Hosakote	MoWR	AIBP	ಸಿದ್ದನಾಪುರ ಕೆರೆ	**254700**	**3.24**	**5**	**76.57**
	166	Hosakote	MoWR	AIBP	ಬೋದನಹೊಸಹಳ್ಳಿ ಕೆರೆ	**622600**	**19**	**5**	**129.40**
	167	Hosakote	MoWR	AIBP	ಮಾರನಗೆರೆ ಕೆರೆ	**792400**	**22**	**5**	**153.78**
	Total					**117983700.00**	**2676.79**		**23751.82**

Assistant Executive Engineer
PRE Sub Division Hosakote

Chapter 5 : Strategic Action plan for Irrigation in District Under PMKSY :								
District : Bangalore Rural								
	Name of the Blocks / sub Districts	Concerned Ministry / Department	Component	(Activity) Name of M I tanks	Total Number /Capacity (cum)	Command Area / Irriagation Potential (ha)	Period of Implementation (5 / 7 yrs)	Estimated Cost (in lakhs.)
				IMPROVEMENT OF BUND,FEEDER CHANNEL , NALA IMPROVEMENT AND OTHER WORKS				
1	DODDABALLAPURA		AIBP	ಗರಿಕೇನಹಳ್ಳಿ ಕೆರೆ	107921	21.44	5	5.00
2			AIBP	ಪಚಾರ್ಲಹಳ್ಳಿ ಕೆರೆ	79682	15.83	5	8.00
3			AIBP	ಬನವತಿಬುಡಕಕೆರೆ	144616	28.73	5	10.00

4			AIBP	ಬನವತಿ ಕೆರೆ ಹೊಸಕೆರೆ	63122	12.54	5	10.00
5			AIBP	ದಡಗಟ್ಟ ಮಡಗು ಕೆರೆ	29094	9.31	5	12.00
6			AIBP	ಲಿಂಗದವೀರನಹಳ್ಳಿ ಕೆರೆ	94569	7.43	5	8.00
7			AIBP	ಹೊಸಹಳ್ಳಿ ಕೆರೆ	120706	23.98	5	12.00
8			AIBP	ಸಾಸಲು ಹೊಸಕೋಟೆ ಕೆರೆ	55521	11.03	5	6.00
9			AIBP	ಚನ್ನಮ್ಮನ ಕೆರೆ	80085	15.91	5	8.00
10			AIBP	ಸುತ್ತಹಳ್ಳಿ ಕೆರೆ	40722	8.09	5	6.00
11			AIBP	ಚೀಲೇನಹಳ್ಳಿ	34826	5.30	5	8.00
12			AIBP	ಹಾಡೋನಹಳ್ಳಿ ಕೆರೆ	63826	12.68	5	8.00
13			AIBP	ಲಕ್ಕಸಂದ್ರ (ಹಿರೇಮುದ್ದೇನಹಳ್ಳಿ ಕೆರೆ)	26678	5.30	5	10.00
14			AIBP	ತೂಬಗೆರೆ ಕೆರೆ	55118	10.95	5	18.00
15			AIBP	ಕಾರನಾಳ ಕೆರೆ	91864	18.25	5	12.00
16			AIBP	ಕುರುವಿಗೆರೆ ಕೆರೆ	153022	30.40	5	12.00

17			AIBP	ಟಿ ಹೊಸಹಳ್ಳಿ ಕೆರೆ	36997	7.35	5	8.00
18			AIBP	ಕಂಚಿಗನಾಳ ಕೆರೆ	67501	13.41	5	6.00
19			AIBP	ಕಂಚಿಗನಾಳ ಕೆರೆ	60875	6.50	5	5.00
20			AIBP	ಚೆನ್ನಾಪುರ ಕೆರೆ	31712	5.50	5	8.00
21			AIBP	ಚಿಕ್ಕರಾಯಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	128358	25.50	5	10.00
22			AIBP	ಕಣೀವೆಪುರ ಕೆರೆ	61914	12.30	5	10.00
23			AIBP	ಸೊಣ್ಣಮಾರನಹಳ್ಳಿ	122217	24.28	5	15.00
24			AIBP	ನಂದಿ ಕುಂಟೆ ಕೆರೆ	29245	5.81	5	8.00
25			AIBP	ಶಿವಪುರ ಕೆರೆ	105958	21.05	5	2.00
26			AIBP	ತಿಮ್ಮಸಂದ್ರ ಕೆರೆ	90354	17.95	5	10.00
27			AIBP	ಆಲದೇನಹಳ್ಳಿ ಕೆರೆ	107877	4.86	5	6.00
28			AIBP	ತಿಮ್ಮಸಂದ್ರ	32561	4.56	5	6.00
29			AIBP	ಗಡ್ಡಂಬಚ್ಚಹಳ್ಳಿ ಕೆರೆ	103347	8.96	5	9.00

30			AIBP	ತೊಗರಿಘಟ್ಟ ಕೆರೆ	84943	8.10	5	10.00
31			AIBP	ಮೇಡಹಳ್ಳಿ ಕೆರೆ	54967	10.92	5	12.00
32			AIBP	ಕುರುಬರಹಳ್ಳಿ ಕೆರೆ	36645	7.28	5	15.00
33			AIBP	ಮುತ್ತೂರು ಕೆರೆ	55496	27.18	5	3.00
34			AIBP	ಸೊಣಪ್ಪನಹಳ್ಳಿ (ಸಿದ್ದನ ಕೆರೆ)	116371	11.34	5	8.00
35			AIBP	ಸೊಣ್ಣಪ್ಪನಹಳ್ಳಿ (ಹೊಸಕೆರೆ)	110992	12.99	5	6.00
36			AIBP	ಅರೇಹಳ್ಳಿ ಗುಡ್ಡದಹಳ್ಳಿ	143056	28.42	5	10.00
37			AIBP	ಓಬದೇನಹಳ್ಳಿ	36645	7.28	5	4.00
38			AIBP	ಓಬದೇನಹಳ್ಳಿ	36766	8.50	5	16.00
39			AIBP	ಬಾಶೆಟ್ಟಹಳ್ಳಿ ಕೆರೆ	88089	17.50	5	5.00
40			AIBP	ಚಿಕ್ಕತುಮಕೂರು ಅಮಾನಿಕೆರೆ	195959	38.93	5	8.00
41			AIBP	ವೀರಾಪುರ ಕೆರೆ	63222	12.56	5	6.00

42			AIBP	ಬೈರಸಂದ್ರ	43390	8.62	5	5.00
43			AIBP	ಗೆಜ್ಜಿಗದಹಳ್ಳಿ	39162	4.56	5	4.00
44			AIBP	ಗೆಜ್ಜಿಗದಹಳ್ಳಿ	66821	7.78	5	6.00
45			AIBP	ಎಸ್ ಎಂ ಗೊಲ್ಲಹಳ್ಳಿ	73900	10.99	5	6.00
46			AIBP	ಕುಂಟನಹಳ್ಳಿ	35386	7.03	5	5.00
47			AIBP	ಮೆಣಸಿ ಕೆರೆ	106512	21.16	5	6.00
48			AIBP	ಹುಸ್ಕೂರು ಕೆರೆ	94179	18.71	5	6.00
49			AIBP	ಚುಂಚೇಗೌಡನ ಹೊಸಹಳ್ಳಿ	22702	4.51	5	3.00
50			AIBP	ರಾಮೇಶ್ವರ ಕೆರೆ	69212	13.75	5	8.00
51			AIBP	ನರಸಯ್ಯನ ಅಗ್ರಹಾರ	63650	12.65	5	8.00
52			AIBP	ಮಾದಗೊಂಡನಹಳ್ಳಿ	61410	12.20	5	8.00
53			AIBP	ಕಾಡನೂರು	28943	5.75	5	6.00

54			AIBP	ಚನ್ನಾದೇವಿ ಅಗ್ರಹಾರ ಗಿರಿಯನಕಟ್ಟೆ	73900	4.2	5	6.00
55			AIBP	ಚನ್ನಾದೇವಿ ಅಗ್ರಹಾರ ಕುರುಡಿಕಟ್ಟೆ	63877	12.69	5	8.00
56			AIBP	ನಲ್ಲೇಗೌಡನ ಕೆರೆ ಇಸ್ತೂರು	163090	32.40	5	8.00
57			AIBP	ಕೋಡಿಹಳ್ಳಿ	288521	27.27	5	8.00
58			AIBP	ಕೋಡಿಹಳ್ಳಿ	29164	3.60	5	3.00
59			AIBP	ರಾಮದೇವನಹಳ್ಳಿ	99918	19.85	5	8.00
60			AIBP	ರಾಮದೇವನಹಳ್ಳಿ	56628	5.30	5	4.00
61			AIBP	ಕನ್ನಮಂಗಲ	132888	26.40	5	6.00
62			AIBP	ಕೆಂಜಿಗನಹಳ್ಳಿ	18404	13.65	5	6.00
63			AIBP	ಕುಕ್ಕನಹಳ್ಳಿ	118353	10.80	5	9.00
64			AIBP	ಕಲ್ಲೋಡು	43541	8.65	5	4.00
65			AIBP	ಚಿಕ್ಕವಡಗೆರೆ	90605	18.00	5	9.00

66			AIBP	ದೊಡ್ಡವಡಗೆರೆ	134901	26.80	5	7.00
67			AIBP	ಹಾಲೇನಹಳ್ಳಿ (ಹಳೆಕೆರೆ)	43038	8.55	5	5.00
68			AIBP	ಹಾಲೇನಹಳ್ಳಿ (ಹೊಸಕೆರೆ)	36746	7.30	5	4.00
69			AIBP	ಗಂಡ್ರಗೂಳಿಮರ	163090	32.40	5	5.00
70			AIBP	ಗೂಳ್ಯ (ದೊಡ್ಡಕೆರೆ)	138576	27.53	5	15.00
71			AIBP	ಗೂಳ್ಯ	105706	21.00	5	6.00
72			AIBP	ಕಾರೇಮರ ಕೆರೆ	26477	5.26	5	10.00
73			AIBP	ಸಾದುಕಟ್ಟೆಕೆರೆ	24413	4.85	5	5.00
74			AIBP	ಅಂಬಲಗೆರೆ (ಮೇಲಿನ ಕೆರೆ)	53514	6.5	5	4.00
75			AIBP	ದೊಡ್ಡಬೆಳವಂಗಲ	105908	21.04	5	11.00
76			AIBP	ಮಧುರನ ಹೊಸಹಳ್ಳಿ	31259	6.21	5	3.00
77			AIBP	ನಾರನಹಳ್ಳಿ	51343	10.20	5	4.00

78			AIBP	ಕೂಗೋನಹಳ್ಳಿ	146630	29.13	5	9.00
79			AIBP	ಶ್ರವಣೂರು ಕೆರೆ	34581	6.87	5	6.00
80			AIBP	ಶ್ರವಣೂರು ಕೆರೆ	29730	5.90	5	6.00
81			AIBP	ಹಣಬೆ ಕೆರೆ	165002	32.78	5	6.00
82			AIBP	ಶ್ರೀನಿವಾಸಪುರ	33323	6.62	5	5.00
83			AIBP	ತಪಸೀಹಳ್ಳಿ ಕೆರೆ	41024	8.15	5	6.00
84			AIBP	ಅಂತರಹಳ್ಳಿ ಕೆರೆ	110388	21.93	5	9.00
85			AIBP	ಕಮಲೂರು	82451	16.38	5	5.00
86			AIBP	ಚೀಲೇನಹಳ್ಳಿ ಕೆರೆ	104196	20.70	5	5.00
87			AIBP	ಕಲ್ಲುದೇವನಹಳ್ಳಿ ಕೆರೆ	53659	10.66	5	9.00
88			AIBP	ತಿಪ್ಪೂರು (ಚಿಕ್ಕಕೆರೆ)	67350	13.38	5	6.00
89			AIBP	ವಾಣಿಗರಹಳ್ಳಿ ಕೆರೆ	52853	10.50	5	9.00

90			AIBP	ಗುಂಡಸಂದ್ರ ಕೆರೆ	116371	9.82	5	9.00
91			AIBP	ಚಿಕ್ಕನಹಳ್ಳಿ ಕೊಂಡಜ್ಜಿ ಕೆರೆ	40974	8.14	5	6.00
92			AIBP	ಚಿಕ್ಕನಹಳ್ಳಿ ಮಾಗ್ಗೇ ಕೆರೆ	32568	6.47	5	5.00
93			AIBP	ಚಿಕ್ಕನಹಳ್ಳಿ ಚಿಕ್ಕಕೆರೆ	45202	8.98	5	7.00
94			AIBP	ಭಕ್ತರಹಳ್ಳಿ ಕೆರೆ	44799	8.90	5	6.00
95			AIBP	ಬೊಮ್ಮನಹಳ್ಳಿ	69212	13.75	5	4.00
96			AIBP	ಹಳೇಕೋಟೆ	37048	7.36	5	3.00
97			AIBP	ಲಿಂಗಾಪುರ ಕೆರೆ	69967	13.90	5	3.00
98			AIBP	ತಂಬೇನಹಳ್ಳಿ ಕೆರೆ	44799	8.90	5	3.00
99			AIBP	ಚಿಕ್ಕಕಾಳೇನಹಳ್ಳಿ ಕೆರೆ	79984	15.89	5	8.00
100			AIBP	ಬೂಚನಹಳ್ಳಿ ಕೆರೆ	24413	4.85	5	3.00
101			AIBP	ಸಕ್ಕರೆ ಗೊಲ್ಲಹಳ್ಳಿ ಕೆರೆ	65135	12.94	5	4.00

102			AIBP	ಅಕ್ಕತಮ್ಮನಹಳ್ಳಿ ಕೆರೆ	143106	28.43	5	11.00
103			AIBP	ರಾಂಪುರ ಕೆರೆ (ಜಾಲಿಕಟ್ಟೆ)	28490	5.66	5	3.00
104			AIBP	ರಾಂಪುರ ಕೆರೆ (ಅಂನತನಕಟ್ಟೆ)	77870	15.47	5	5.00
105			AIBP	ಕಸಾಘಟ್ಟ ಕೆರೆ	136462	27.11	5	7.00
106			AIBP	ಕತ್ತಿಹೊಸಹಳ್ಳಿ ಕೆರೆ	50890	10.11	5	4.00
107			AIBP	ಮುತ್ತಗದಹಳ್ಳಿ ಕೆರೆ	22400	9.72	5	4.00
108			AIBP	ಹುಲಿಕುಂಟೆ (ಹೊಸಕೆರೆ)	136915	27.20	5	10.00
109			AIBP	ತಿಪ್ಪಾಪುರ	50966	5.45	5	3.00
110			AIBP	ಅಪ್ಪಕರೇನಹಳ್ಳಿ ಕೆರೆ	161108	10.29	5	11.00
111			AIBP	ದೊಡ್ಡಮಂಕನಾಳ ಕೆರೆ	34782	6.91	5	5.00
112			AIBP	ಚಿಕ್ಕಮಂಕನಾಳ ಕೆರೆ	43138	8.57	5	4.00
113			AIBP	ಕೋಲಿಗೆರೆ	53205	10.57	5	4.00

114			AIBP	ಬೈಯಪ್ಪನಹಳ್ಳಿ	50991	10.13	5	4.00
115			AIBP	ರಘುನಾಥಪುರ ಕೆರೆ	22400	4.45	5	2.00
116			AIBP	ಗಲಿಬಿಲಿಕೋಟೆ ಕೆರೆ	67199	13.35	5	6.00
117			AIBP	ಮಾಡೇಶ್ವರ ಕೆರೆ	44799	8.90	5	4.00
118			AIBP	ಕೋಳಿಪುರ ಕೆರೆ	57232	11.37	5	5.00
119			AIBP	ಭಕ್ತರಹಳ್ಳಿ ಕೆರೆ	44799	8.90	5	4.00
120			AIBP	ಆಚಾರ್ಲಹಳ್ಳಿ ಕೆರೆ	71276	14.16	5	5.00
121			AIBP	ತರಬನಹಳ್ಳಿ (ಕಾಕನಕಟ್ಟೆ ಕೆರೆ)	22400	4.45	5	5.00
122			AIBP	ತರಬನಹಳ್ಳಿ ಕೆರೆ	29164	4.69	5	5.00
123			AIBP	ಗೌಡನಕುಂಟೆ ಕೆರೆ	66821	6.36	5	10.00
124			AIBP	ಗೌಡನಕುಂಟೆ ಕೆರೆ	111841	7.36	5	5.00
125			AIBP	ರಘುನಾಥಪುರ ಕೆರೆ	18404	5.26	5	4.00

126			AIBP	ಹುಸ್ಕೂರು ಕೆರೆ	24067	3.69	5	4.00
127			AIBP	ಕನ್ನಮಂಗಲ ಕೆರೆ	34826	4.69	5	5.00
128			AIBP	ಕೆಂಜಿಗನಹಳ್ಳಿ ಕೆರೆ	123167	7.69	5	5.00
129			AIBP	ನಾಗದೇನಹಳ್ಳಿ ಕೆರೆ	26898	3.6	5	3.00
130			AIBP	ನಾಗದೇನಹಳ್ಳಿ ಕೆರೆ	81828	6.05	5	3.00
131			AIBP	ಕೋಳೂರು ಕೆರೆ	59460	5.63	5	10.00
132			AIBP	ಕಂಟನಕುಂಟೆಕೆರೆ	28490	5.66	5	10.00
133			AIBP	ಯಳ್ಳುಪುರ ಕೆರೆ	22651	3.45	5	3.00
134			AIBP	ಓಬದೇನಹಳ್ಳಿ ಕೆರೆ	29447	3.69	5	2.00
135			AIBP	ಬಿಸುವನಹಳ್ಳಿಕೆರೆ	58044	5.96	5	2.00
136			AIBP	ಹೊಸಹುಡ್ಯ ಕೆರೆ	56062	4.89	5	3.00
137			AIBP	ತಮ್ಮಶೆಟ್ಟಿಹಳ್ಳಿ ಕೆರೆ	158559	9.86	5	4.00

138			AIBP	ಮುತ್ತೂರು ಕೆರೆ	13025	2.56	5	5.00
139			AIBP	ಸಿದ್ದೇನಾಯಕನಹಳ್ಳಿ ಕೆರೆ	5663	2.56	5	3.00
140			AIBP	ಕುರುಬರಹಳ್ಳಿ ಕೆರೆ	17838	3.89	5	3.00
141			AIBP	ಗಂಗಾಧರಪುರ ಕೆರೆ	17838	3.45	5	5.00
142			AIBP	ಗಂಗಾಧರಪುರಕೆರೆ			5	
143			AIBP	ರೋಜಿಪುರ ಕೆರೆ	217736	25.3	5	6.00
144			AIBP	ಯದ್ಲಹಳ್ಳಿಕೆರೆ	25200	3.76	5	5.00
145			AIBP	ತಮ್ಮಗಾನಹಳ್ಳಿ ಕೆರೆ	58044	5.68	5	8.00
146			AIBP	ಬನವತಿ ಕೆರೆ	86358	8.69	5	10.00
147			AIBP	ಆಲಪ್ಪನಹಳ್ಳಿ ಕೆರೆ	5946	1.89	5	8.00
148			AIBP	ಬೆನಕಿನಮಡಗು ಕೆರೆ	8494	2.05	5	8.00
149			AIBP	ಉಜ್ಜನಿ ಕೆರೆ	3964	2.15	5	10.00

150			AIBP	ಕಮ್ಮಸಂದ್ರ ಕೆರೆ	56062	6.96	5	5.00
151			AIBP	ಮಧುರೆ ಕೆರೆ	27748	4.59	5	6.00
152			AIBP	ಮದಗೊಂಡನಹಳ್ಳಿ ಕೆರೆ	5946	2.56	5	9.00
153			AIBP	ಕಾರೇಪುರ ಕೆರೆ	19820	3.56	5	3.00
154			AIBP	ಭೂಚನಹಳ್ಳಿ ಕೆರೆ	19820	3.69	5	3.00
155			AIBP	ಕೋಲಿಗೆರೆ ಕೆರೆ	19537	4.05	5	3.00
156			AIBP	ಕೋಲಿಗೆರೆ ಕೆರೆ	9061	2.53	5	3.00
157			AIBP	ಬೊಮ್ಮನಹಳ್ಳಿ ಕೆರೆ	40489	4.86	5	4.00
158			AIBP	ಕಾರಾಪುರ ಕೆರೆ	29447	5.56	5	3.00
159			AIBP	ಬಸವನಪುರ ಕೆರೆ	26898	4.05	5	3.00
160			AIBP	ಚಿಕ್ಕನಹಳ್ಳಿ ಕೆರೆ	29164	5.25	5	4.00
161			AIBP	ಬೀಡಿಕೆರೆ ಕೆರೆ	31146	6.52	5	4.00
				161	**10659627**	**1823**		**1035.00**

Chapter 5 : Strategic Action plan for Irrigation in District Under PMKSY :								
District : Bangalore Rural								
Sl. No.	Name of the Blocks / sub Districts	Concerned Ministry / Department	Component	Activity	Total Number /Capacity (cum)	Command Area / Irriagation Potential (ha)	Period of Implementation (5 / 7 yrs)	Estimated Cost (in lakhs.)
1	Devanahalli	PRED	AIBP	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	52	1196.66	5	2401.00
2	Doddaballapura	PRED	PMKSY	CHECKDAM	110	-	5	495.00
	Doddaballapura	PRED	PMKSY	Desilting	161	1823.00	5	5122.00
	Doddaballapura	PRED	AIBP	IMPROVEMENT OF BUND,FEEDER CHANNEL , NALA IMPROVEMENT AND OTHER WORKS	161	1823.00	5	1035.00
3	Hosakote	PRED	PMKSY	Desilting	167	2653.79	5	16918.05
	Hosakote	PRED	AIBP	Improvement of bund,feeder channel , nala improvement and other works	167	2676.79	5	23751.82
4	Nelamangala	PRED	PMKSY	Desilting	180	2069.58	5	20706.44
				Feeder Channel Improvement, Nala Improvement, Bund Improvement	180	2069.58	5	1589.00
				Check Dams	81		5	364.50
				Total	1259	14312.40	5	72382.81

Strategic action plan for irrigation in Bangalore rural district under PMKSY

SL. NO	Name of the block or Sub District	Concerned Minstry or Department	Component	Activity	Name of Works	Total No./Capacity (Mcft)	Command Area/Irrigation Potential (Ha.)	Period of Implementation	Estimated Cost in Lakhs
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
1	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Appegondanahalli Village in Belavangala Hobli, Doddaballapur taluk, Bangalore rural District	1	22.00	2 years	110.00
2	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Lakkenahalli Village in, Sasalu Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00
3	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Palpaldinne Village in Tubugere Hobli, Doddaballapur taluk, Bangalore rural District	1	24.00	2 years	120.00

4	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Melina Nayakarandanahalli Village in Tubugere Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00
5	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Tippur Village in Belavangala Hobli, Doddaballapur taluk, Bangalore rural District	1	20.00	2 years	100.00
6	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near S.Nagenahalli village in Thubagere Hobli Doddaballapura Taluk Bangalore Rural Distict	1	24.00	2 years	120.00
7	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Geddalapalya village in Thubagere Hobli Doddaballapura Taluk Bangalore Rural Distict	1	20.00	2 years	100.00

8	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Neralagatta village in Doddaballapura Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
9	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across North pennar sub basin inDoddaballapura Taluk Bangalore Rural Distict	8	190.00	2 years	950.00
10	Doddaballapur	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across Arkavathy sub basin inDoddaballapura Taluk Bangalore Rural Distict	15	320.00	2 years	1600.00
11	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Doddasagarahalli Village in Vijayapura Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	22.00	2 years	110.00

12	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near varadenahalli Village in Channarayapatna Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	30.00	2 years	150.00
13	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across Arkavathy sub basin in Devanahalli taluk, taluk, Bangalore rural District	6	100.00	2 years	500.00
14	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across SouthPennar sub basin in Devanahalli taluk, taluk, Bangalore rural District	12	200.00	2 years	1000.00
15	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Karahalli Village in Kundan Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	20.00	2 years	100.00

16	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Checkdam across nala near Majjigehosahalli Village in Kundan Hobli, Devanahalli taluk, taluk, Bangalore rural District	1	26.00	2 years	130.00
17	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Muddiganahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
18	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Kempathimmanahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	14.00	2 years	70.00
19	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near tylagere village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	12.00	2 years	60.00

20	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Byadarahalli village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	20.00	2 years	100.00
21	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Beerasandra village in Kundan hobli Devanahalli Taluk Bangalore Rural Distict	1	12.00	2 years	60.00
22	Devanahalli	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of Percolation tank across halla near Yaluvahalli village in Vijayapura hobli Devanahalli Taluk Bangalore Rural Distict	1	40.00	2 years	200.00
23	Nelamagala	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near Someswara village in thymagondlu hobli, NelamagalaTaluk Bangalore Rural district	1	26.00	2 years	130.00

24	Nelamagala	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of series of checkdams across North pennar sub basin in NelamagalaTaluk Bangalore Rural district	8	120.00	5 years	600.00
25	Nelamagala	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of series of checkdams across Shimsha sub basin in NelamagalaTaluk Bangalore Rural district	4	80.00	5 years	400.00
26	Nelamagala	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of series of checkdams across Arkavathy sub basin in NelamagalaTaluk Bangalore Rural district	15	240.00	5 years	1200.00

27	Nelamagala	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of pick up across halla near durgamma guhe halla near marlaukate village in thymagondlu hobli, NelamagalaTaluk Bangalore Rural district	1	24.00	2 years	120.00
28	Hosakote	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of series of checkdams across South pennar sub basin in Hosakote Taluk Bangalore Rural district	15	260.00	5 years	1300.00
29	Hosakote	**MoWR**	**AIBP**	Surface Minor irrigation / Ground water development	Construction of series of checkdams across Palar sub basin in HosakoteTaluk Bangalore Rural district	4	80.00	5 years	400.00
						107	**2026.00**		**10130.00**

						Length in Kms			
1	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of North Pennar Basins	102.12		5 years	3700.00
2	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	254.68		5 years	2450.00
3	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of South Pennar Basins	186.99		5 years	2250.00
4	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	22.64		5 years	260.00
5	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys ofNorth Pennar Basins	15.59		5 years	1200.00
6	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Arkavathy Sub Basins	198.12		5 years	2900.00
7	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Shimsha Sub Basins	15.96		5 years	75.00

8	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of South Pennar Basins	440.00		5 years	3600.00
9	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to valleys/River basin	Improvements proposed for Subsidiary valleys of Palar Sub Basins	30.00		5 years	110.00
						1266.10			**16545.00**
		MoWR	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	**Renovation and improvements to tanks including desilting of water bodies**				
1	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Devanahally Hire Amani Kere	30.47	45.02	5years	450.00
2	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Devasthanada Amani	16.00	93.20	5years	180.00
3	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Chikkasanne (Bande) Amani Kere	72.47	146.72	5years	400.00

4	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Karyhally Amani Kere	12.09	200.00	5years	200.00
5	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Alur Doddanahally kere	43.00	87.04	5years	175.00
6	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Bannimangala Amani Kere	41.80	84.61	5years	170.00
7	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Aradeshanahally Kere	43.41	119.10	5years	400.00
8	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Vijayapura Amani Kere	56.21	145.30	5years	500.00
9	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Thattamachanahally Kere	130.44	324.00	5years	800.00

10	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Channarayapatna Amani Kere	52.32	77.30	5years	160.00
11	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Konagina Bele Kere	20.89	93.00	5years	190.00
12	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Budigere Amani Kere	131.86	161.80	5years	195.00
13	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Bidalapura Amani Kere	18.21	80.53	5years	170.00
14	Devanahalli	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Bettakote Amani Kere	130.58	212.46	5years	200.00
15	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Doddaballapur Nagarakere	28.28	60.70	5years	120.00

16	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Thalagawara Kere	18.03	74.06	5years	150.00
17	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Madagondahally Kere	9.90	52.06	5years	100.00
18	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kolur Kere	19.44	53.31	5years	110.00
19	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Palanajogi Hally Kere	30.40	52.15	5years	105.00
20	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kesthur Kere	15.91	50.59	5years	100.00
21	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Aralumallige Kere	60.10	165.66	5years	200.00

22	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Konaghatta Amani Kere	21.91	68.44	5years	140.00
23	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Shivapura Amani Kere	51.26	104.01	5years	200.00
24	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Hanabe Doddakere	31.81	122.64	5years	195.00
25	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Thippur Dodda Kere	16.97	101.86	5years	190.00
26	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Doddahejjaji Amani Kere	10.96	50.57	5years	100.00
27	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Chikkahejjaji Amani Kere	28.88	189.39	5years	200.00

28	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Hadripur Kere	17.67	70.28	5years	140.00
29	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Sonnenahally Amani Kere	20.15	77.38	5years	150.00
30	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Mudalakalenahally Hosakere	9.54	93.08	5years	190.00
31	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Arudi Uramundina Kere	6.01	64.35	5years	130.00
32	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Sri Ramanahally Hosakere	8.84	112.50	5years	200.00
33	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Machanahally Hosakere	8.13	184.76	5years	195.00

34	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Gundamgere Tank	98.63	404.69	5years	200.00
35	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Ujjani Gowrammana Kere	14.65	57.51	5years	120.00
36	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Mallasandra Hosakere	11.54	93.48	5years	190.00
37	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kottigemachenahalli Hosakere	9.03	61.92	5years	120.00
38	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Madura Amanikere	89.43	291.00	5years	200.00
39	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Honnavara Dodda Kere	7.07	86.19	5years	170.00

40	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Simpadipura Kere	4.24	48.56	5years	100.00
41	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kadanur Hirekere	7.42	40.16	5years	80.00
42	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Dodda Tumkur Kere	39.60	111.69	5years	200.00
43	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Rajaghatta Amani Kere	12.73	46.66	5years	90.00
44	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Lingana Hally kere	24.74	113.30	5years	200.00
45	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kenchiganala Bachegowda Kere	10.25	43.89	5years	90.00

46	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Melekote Dodda Kere	12.37	68.80	5years	130.00
47	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Bidi Kere	7.42	74.05	5years	150.00
48	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Machagondanahalli Chikka Kere	6.72	62.70	5years	125.00
49	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Heggade Halli Melina Kere	6.36	52.30	5years	100.00
50	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Gulya Nandi Gunda Kere	3.18	43.86	5years	90.00
51	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Dandusa Kodigehally Kere	6.72	48.56	5years	100.00

52	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Thirumagonda Hally Hosakere	21.21	81.00	5years	165.00
53	Doddaballapur	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Thippana Hally Kere (Lakshmidevapura)	8.13	40.00	5years	80.00
54	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Nelamangala Kere	8.01	59.20	5years	120.00
55	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Arasina Kunte	6.03	44.80	5years	90.00
56	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Gollahalli Kere	7.26	54.00	5years	110.00
57	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Baradi Kere	17.71	130.50	5years	200.00

58	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Srinivasapura Chikka Kere	5.93	44.00	5years	90.00
59	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	T.BegurDodda Kere	15.47	114.00	5years	200.00
60	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Honnarayana Halli Kere	5.55	40.90	5years	90.00
61	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Tyamagondalu Hire Kere	27.12	200.30	5years	200.00
62	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Sondalawadi Kere	27.02	199.40	5years	195.00
63	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Bidalur Gangamma Kere	7.80	57.52	5years	120.00

64	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Manne Amanikere	11.29	83.40	5years	170.00
65	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Obalapura Dodda Kere	7.14	53.00	5years	110.00
66	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Doddabele Konana Kere	7.78	57.40	5years	120.00
67	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Niduvanda Kere	8.44	62.70	5years	125.00
68	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Halenijagal Hosa Kere	13.34	97.53	5years	195.00
69	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Devarahosahally kere	21.60	160.00	5years	200.00

70	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kuluvanahalli Chikanakere	7.07	52.40	5years	110.00
71	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Billanakote Kere	7.18	53.30	5years	100.00
72	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kambal Dodda Kere	6.92	51.20	5years	110.00
73	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Maralakunte Kere	9.13	73.25	5years	150.00
74	Nelamangala	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Madaga Kere	10.89	80.90	5years	170.00
75	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Hoskote Dodda Kere	800.00	939.00	5years	500.00

76	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Hoskote Chikka Kere	9.10	48.00	5years	100.00
77	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Mallasandra Kere	2.20	69.00	5years	140.00
78	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Doddahullur Amani Kere	120.00	212.00	5years	300.00
79	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kolathur Tank	10.50	63.00	5years	130.00
80	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kurubarahally Tank	4.25	50.00	5years	100.00
81	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kondrahalli Tank	9.13	42.00	5years	90.00

82	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Nelavagilu Tank	16.30	43.00	5years	90.00
83	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Arehalli Tank	18.83	43.00	5years	95.00
84	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Thavare Kere	28.10	62.00	5years	125.00
85	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Esthur Tank	11.98	43.50	5years	85.00
86	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Theniyur Tank	25.18	78.50	5years	160.00
87	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Sulibele Tank	11.30	196.00	5years	200.00

88	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Hasigala Tank	14.00	82.00	5years	160.00
89	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Medi Malasandra Tank	16.87	47.00	5years	90.00
90	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Beli Kere Tank	11.00	51.00	5years	100.00
91	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Samethanahally Ooramun dina Kere	6.11	40.00	5years	80.00
92	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Attivatta Tank	14.67	60.00	5years	120.00
93	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Makanahalli Kere	7.91	43.00	5years	90.00

94	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Vagata Kere	18.66	48.00	5years	100.00
95	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Nidagata Kere	30.80	46.00	5years	90.00
96	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Attur Tank	7.50	54.00	5years	100.00
97	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Kodihally Kere	27.22	79.00	5years	150.00
98	Hosakote	**MoWR**	**Har Khet Ko Panni**	Renovation and improvements to tanks including desilting of water bodies	Doddanallur Tank	31.13	43.00	5years	90.00
						3106.78	**9739.89**		**16065.00**

					Providing Lift Irrigation schemes	**No of Tank**	**Capacity of Filling (Mcft)**		
1	Nelamangala and Doddaballapur	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes from Byramangala reservoir to fill tanks in Nelamangala and Doddaballapura taluk,Bangalore rural Dist	200.00	5882.35	5years	50000.00
2	Devanahalli	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes from Thattamachanahalli Amanikere to Fill tanks in Devanahalli taluk,Bangalore rural Dist	30.00	1882.35	5years	16000.00
3	Hosakote	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes from Samethanahalli to fill 29 tanks in Hosakote taluk,Bangalore rural Dist	29.00	889.88	5years	7500.00
4	Hosakote	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes from Hosakote Amani Doddakere to fill tanks in Sulibele and Nandagudi Hobli in Hosakote taluk,Bangalore rural Dist	40.00	2117.65	5years	18000.00
						299.00	**10772.23**		**91500.00**

					Yettinahole Scheme	**No of Tank**	**Capacity of Filling (Mcft)**		
1	Nelamangala	MoWR	Har Khet Ko Panni	Providing Pipe line	Minor Irrigation tanks proposed to meet drinking water and tank filling from Yettinahole project in Nelamangala taluk, Bangalore ruralDist	2	7.34	5years	120.00
2	Doddaballapur	MoWR	Har Khet Ko Panni	Providing Pipe line	Minor Irrigation tanks proposed to meet drinking water and tank filling from Yettinahole project in Doddaballapur taluk, Bangalore ruralDist	7	75.86	5years	2000.00
3	Devanahalli	MoWR	Har Khet Ko Panni	Providing Pipe line	Minor Irrigation tanks proposed to meet drinking water and tank filling from Yettinahole project in Devanahalli taluk, Bangalore ruralDist	11	335.76	5years	5000.00
4	Hosakote	MoWR	Har Khet Ko Panni	Providing Pipe line	Minor Irrigation tanks proposed to meet drinking water and tank filling from Yettinahole project in Hosakote taluk, Bangalore ruralDist	26	648.11	5years	15000.00
						46	1067.07		**22120.00**

Abstract

SL.NO	Name of the block or Sub District	Concerned Minstry or Department	Component	Activity	Activity	Total No./Capacity (Mcft)	Command Area/Irrigation Potential (Ha.)	Period of Implementation	Estimated Cost in Lakhs
1	Bangalore Rural	MoWR	AIBP	Surface Minor irrigation / Ground water development	Surface Minor irrigation / Ground water development	107	2026.00	2-5years	10130.00
2	Bangalore Rural	MoWR	Har Khet Ko Panni	Renovation and improvements to valleys/Riverbasin/including desilting of water bodies	Renovation and improvements to valleys/Riverbasin/including desilting of water bodies	1266.1		2-5years	16545.00
3	Bangalore Rural	MoWR	Har Khet Ko Panni	Renovation and improvements to tanks including desilting of water bodies	Renovation and improvements to tanks including desilting of water bodies	3106.78	9739.89	2-5years	16065.00
4	Bangalore Rural	MoWR	Har Khet Ko Panni	Providing Lift Irrigation schemes	Providing Lift Irrigation schemes	299.00	10772.23	3-5years	91500.00
4	Bangalore Rural	MoWR	Har Khet Ko Panni	Providing Pipe line	Yettinahole Scheme	46.00	1067.07	3-5years	22120.00
					Grand Total				**156360.0**

DISTRICT IRRIGATION PLAN

Taluk/Block : Devanahalli **PRE Division Bangalore Rural**

Sl. No	Name of the Tank	Concernted Ministery	Componen nt	Activity	Total No./Cum capacity	Comond area in Hecters	Period of implemen tation	Estimated Cost Rs. In Lakhs
1	2	3	4	5	6	7	8	9
1	Kannamagala	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	39.32	5/7.	55.00
2	Uganawadi	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	40.46	5/7.	60.00
3	Doddasanne kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	161	5/7.	80.00

4	Shetterahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	7.68	5/7.	45.00
5	Bidalru Kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	25	5/7.	50.00
6	Bidalru Kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	11.73	5/7.	45.00
7	Kodagurki	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	24.28	5/7.	50.00

8	Akalenahalli Mallenahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	5.58	5/7.	40.00
9	Lalagondanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	14.48	5/7.	50.00
10	Avathi	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	8.90	5/7.	30.00
11	Binnamangala	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	18.00	5/7.	45.00

12	Gokare	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	33.58	5/7.	60.00
13	Bettenahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	37.23	5/7.	60.00
14	Jalige	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	37.63	5/7.	60.00
15	Juttanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	19.01	5/7.	50.00

16	Thindlu	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	35.00	5/7.	60.00
17	Doddachimanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	9.30	5/7.	40.00
18	Naraganahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	18.70	5/7.	50.00
19	Arasanahalli-Peddanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	7.41	5/7.	45.00

20	Soluru uramundina kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	38.04	5/7.	60.00
21	Byadarahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	5.29	5/7.	30.00
22	Beerasandra	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	34.00	5/7.	60.00

23	Managondanahalli, Koira	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	33.00	5/7.	60.00
24	Aruvanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	35.00	5/7.	60.00
25	Rabbanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	19.01	5/7.	50.00

26	Meesaganahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	8.49	5/7.	45.00
27	Tailagere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	32.83	5/7.	60.00
28	Chikkagollahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	7.68	5/7.	45.00

29	Vishwanathapura	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	8.90	5/7.	45.00
30	Shyanappanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	7.40	5/7.	45.00
31	Meesaganahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	8.49	5/7.	45.00
32	Lingadheeragollahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	4.04	5/7.	32.00
33	Hegganahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	11.33	5/7.	43.00

34	Muddanayakana halli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	18.61	5/7.	48.00
35	Ramanathapura	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	13.35	5/7.	46.00
36	Rabbanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	19.01	5/7.	40.00
37	Koira	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	25.00	5/7.	30.00
38	Mayasandra	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	5.26	5/7.	20.00

39	Maragondanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	15.89	5/7.	30.00
40	Irrigenahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	16.18	5/7.	30.00
41	Bhatrenahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	11.73	5/7.	25.00
42	Guduvanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	35.66	5/7.	40.00
43	Mudugurki	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	10.52	5/7.	25.00

44	Chimachanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	14.25	5/7.	25.00
45	Somathanahalli	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	38.84	5/7.	40.00
46	Byadarahalli kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	14.97	5/7.	40.00
47	seekayanahalli kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	8.90	5/7.	42.00
48	Soluru ura melina kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	15.50	5/7.	45.00

49	Kempalinganapura mulli amanikere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	30.75	5/7.	40.00
50	Sadahalli kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	40.46	5/7.	70.00
51	Nagamangala kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	16.99	5/7.	50.00
52	nagenahalli kere	M.O.W.R	Harkhet-Ko-pani	1) Improvements to Bund 2) De-Silting of Tank 3) Rejuvenation of Feedar channel 4) Repairs to sluice and Waste weir	1	37.00	5/7.	60.00
	Total							**2401.00**