

Integrated Watershed Management Programme

Preliminary Project Report (PPR)

Kollam

**Department of Land Resources,
Ministry of Rural Development,
Government of India**

I. Institutional Structures.

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I. Institutional Structures

I. A. State Level Nodal Agencies (SLNAs):

Table-PPR 1: Details of SLNA

| 1 | 2 | 3 | 4 | 5 | 6 |
|----|--------|---------------------------|----------------------|-----------------------|------------------------------|
| No | State | Type of SLNA [#] | Date of Notification | Date of MoU with DoLR | Total no. of members of SLNA |
| 1 | Kerala | Mission | 14-Jun-10 | | Twenty Five |

Table-PPR 1: Details of SLNA (Contd..)

| 7 | | 8 | | | | | |
|--------------------------------|-------------------------------------|------|---|---------------------|-------------------------------------|--------|------------------------------|
| Chairperson and Co Chairperson | | CEO | | | | | |
| Name | Designation [#] | Name | Designation | Date of Appointment | Nature of appointment ^{\$} | Tenure | Contact Ph. No./ Fax/ E-mail |
| L C Goyal | Agriculture Production commissioner | | Additional Director of Agriculture (SC Unit) | 14-Jun-10 | | | |
| S M Vijayanand | Principal Secretary, LSGD | | | | | | |

Table-PPR 2: Details of functionaries in the SLNAs*

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | |
|----|---|---------------------|---------------|------------|-----------------|----------------------------|----------------------------|----|----------------------------------|----|
| No | Total no. of persons working in the SLNA for IWMP | Names & Designation | Qualification | Experience | Work allocation | Monthly remuneration (Rs.) | Total budget of SLNA (Rs.) | | Funding expected from DoLR (Rs.) | |
| | | | | | | | R | NR | R | NR |
| 1 | | | | | | | | | | |

Table-PPR 3: Details of State Level Data Cell (SLDC) functionalities*

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | |
|----|---|---|---|------------|-----------------|----------------------------|----------------------------|----|----------------------------------|----|
| No | Total no. of persons working in the SLDC for IWMP | Names & Designation | Qualification | Experience | Work allocation | Monthly remuneration (Rs.) | Total budget of SLDC (Rs.) | | Funding expected from DoLR (Rs.) | |
| | | | | | | | R | NR | R | NR |
| 1 | N i n e | Technical expert, (Agriculture/ Agriculture Engineering) | PG/Ph.D in the related Field | 10 years | | 50000 | | | | |
| 2 | | Technical expert, (IT/Livelihood,micro enterprises /livelihood) | B Tech. Computer Science / MCA | 10 years | | 50000 | | | | |
| 3 | | Administrative Officer | PG in Administration / Management | 10 years | | 40000 | | | | |
| 4 | | Finance cum Accounts Officer | PG in FM / Accounts / CA | 10 years | | 35000 | | | | |
| 5 | | Accounts assistants - 2 numbers | Graduation in Accounts / Commerce / Economics | 5 years | | 25000 | | | | |
| 6 | | GIS expert | B Tech / M Sc / M Tech in related field | 5 years | | 40000 | | | | |
| 7 | | Data entry operator | Graduate+Certificate in DTP | 5 years | | 15000 | | | | |
| 8 | | Programmer | Diploma/Certificate in related fields | 5 years | | 25000 | | | | |

I. B. District Level Watershed Units:

Table-PPR 4: Details of functionaries in the DRDA Watershed Cell

| 1 | 2 | 3 | 4 | 5 | 6 |
|----|----------------------|---------------------------------|---|----------------------------------|--|
| No | Name of the District | Name of the executing Agency | Status of Chairman | Date of signing of MoU with SLNA | Total no. of persons working for Watershed programme |
| 1 | Thiruvananthapuram | Respective District Panchayaths | President, respective District panchayats | | Three each in all Districts, 52 persons in the State |
| 2 | Kollam | | | | |
| 3 | Pathanamthitta | | | | |
| 4 | Alapuzha | | | | |
| 5 | Kottayam | | | | |
| 6 | Idukki | | | | |
| 7 | Eranakulam | | | | |
| 8 | Thrissur | | | | |
| 9 | Palakkad | | | | |
| 10 | Malappuram | | | | |
| 11 | Kozhikkode | | | | |
| 12 | Wayanadu | | | | |
| 13 | Kannur | | | | |
| 14 | Kasargode | | | | |

Table-PPR 4: Details of functionaries in the DRDA Watershed Cell - cont.

| No | Names & Designation | Qualification | Experience | Work allocation | Monthly remuneration (Rs.) | 12 | | 13 | |
|----|---------------------|--|------------|-----------------|----------------------------|--------------------------------------|----|----------------------------------|----|
| | | | | | | Total budget of Watershed Cell (Rs.) | | Funding expected from DoLR (Rs.) | |
| | | | | | | R | NR | R | NR |
| 1 | Technical expert | Graduation in the related field | 5 years | | 25000 | | | | |
| 2 | Accountant | Graduation in the related field | 3 years | | 10000 | | | | |
| 3 | Data entry operator | Diploma / certificate in the related field | 3 years | | 7500 | | | | |
| | 52 persons | | | | 595000 | | | | |

II. SELECTION OF WATERSHED PROJECTS

*Table-PPR 5 : Status of District-wise area covered under the watershed programme *
(MIS Table-M(SP)2)*

| 1 | 2 | 3 | | 4 | | | | | | 5 | |
|-----|------------|------|---------|-------------------------------------|------------|-----------------------------|---------|--------------------------|------------|------|---------|
| | | | | Micro-watersheds covered so far | | | | | | | |
| | | | | Dept. of Land Resources | | Other Ministries/ Depts. | | Total watersheds covered | | | |
| | | | | Pre-IWMP projects (DPAP +DDP +IWDP) | | Any other watershed project | | | | | |
| No. | Area (ha.) | No. | Area | No. | Area (ha.) | No. | Area h | No. | Area (ha.) | | |
| 1 | Kollam | 183 | 248763 | 3 | 2898 | 59 | 101318 | 62 | 104216 | 66 | 61298 |
| | State | 4529 | 3874535 | 29 | 19345 | 955 | 1018761 | 983 | 1038991 | 2067 | 1459817 |

Table-PPR 6: Prioritized list of projects proposed for sanction during the financial year 2010-11

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | |
|----|----------|---------------------|--|----------------------------|-------------------------|-----------------------------|-------------------------------|----|---|----|---|---|-----|----|----|----|----|----|-----|-------|
| No | District | Name of the project | No. of micro-watersheds proposed to be covered | Proposed project area (ha) | Type of project | Proposed cost (Rs. in lakh) | Weightage under the criteria# | | | | | | | | | | | | | |
| | | | | | (Hilly/ Desert/ Others) | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | Total |
| 1 | Kollam | IWMP1 | 7 | 4917 | Hilly | 737.55 | 35 | 21 | 0 | 70 | 0 | 0 | 105 | 53 | 40 | 0 | 70 | 0 | 105 | 499 |
| | | 1 | 7 | 4917 | | 737.55 | | | | | | | | | | | | | | |

Criteria and weightage for selection of watershed

| No | Criteria | score | Ranges & scores | | | |
|------|---|-------|---|--|--|---------------------|
| i | Poverty index (% of poor to population) | 10 | Above 80 % (10) | 80 to 50 % (7.5) | 50 to 20 % (5) | Below 20 % (2.5) |
| ii | % of SC/ ST population | 10 | More than 40 % (10) | 20 to 40 % (5) | Less than 20 % (3) | |
| iii | Actual wages | 5 | Actual wages are significantly lower than minimum wages (5) | Actual wages are equal to or higher than minimum wages (0) | | |
| iv | % of small and marginal farmers | 10 | More than 80 % (10) | 50 to 80 % (5) | Less than 50 % (3) | |
| v | Ground water status | 5 | Over exploited (5) | Critical (3) | Sub critical (2) | Safe (0) |
| vi | Moisture index/ | 15 | -66.7 & below (15) | -33.3 to -66.6 (10) | 0 to -33.2 (0) | |
| | DPAP/ DDP Block | | DDP Block | DPAP Block | Non DPAP/ DDP Block | Above 70 % (Reject) |
| vii | Area under rain-fed agriculture | 15 | More than 90 % (15) | 80 to 90 % (10) | 70 to 80% (5) | Fully covered (0) |
| viii | Drinking water | 10 | No source (10) | Problematic village (7.5) | Partially covered (5) | |
| ix | Degraded land | 15 | High – above 20 % (15) | Medium – 10 to 20 % (10) | Low-less than10% of TGA(5) | |
| x | Productivity potential of the land | 15 | Lands with low production & where productivity can be significantly enhanced with reasonable efforts (15) | Lands with moderate production & where productivity can be enhanced with reasonable efforts (10) | Lands with high production & where productivity can be marginally enhanced with reasonable efforts(5) | |
| xi | Contiguity to another watershed that has already been developed/ treated | 10 | Contiguous to previously treated watershed & contiguity within the micro watersheds in the project (10) | Contiguity within the micro watersheds in the project but non contiguous to previously treated watershed (5) | Neither contiguous to previously treated watershed nor contiguity within the micro watersheds in the project (0) | |
| xii | Cluster approach in the plains (more than one contiguous micro-watersheds in the project) | 15 | Above 6 micro-watersheds in cluster (15) | 4 to 6 micro watersheds in cluster (10) | 2 to 4 micro watersheds in cluster (5) | |
| | Cluster approach in the hills (more than one contiguous micro-watersheds in the project) | | Above 5 micro-watersheds in cluster (15) | 3 to 5 micro watersheds in cluster (10) | 2 to 3 micro watersheds in cluster (5) | |

III) PROJECT WISE PROFILE OF THE SELECTED WATERSHED PROJECT

Table –PPR 7: Project at a Glance

| | | | | |
|----------|---|------------------|---|-----------|
| 1 | Name of the State | Kerala | | |
| 2 | Name & type [#] (Hilly/ Desert/ Others) of the project | IWMP1 | 0 | Hilly |
| 3 | Name of the District | Kollam | | |
| 4 | Names of the Blocks | Ithikkara | | |
| | | Mukhathala | | |
| | | Kottarakkara | | |
| 5 | Names of Gram Panchayats | Adichanalloor | | |
| | | Chathannoor | | |
| | | Kareepra | | |
| | | Poothakulam | | |
| | | Nedumpana | | |
| | | Mayyanadu | | |
| | | Thrikovilvattom | | |
| | | Pooyappally | | |
| 6 | Names & Census Code of Villages covered | Adichanalloor | | 00126700 |
| | | Chirakkara | | 00126900 |
| | | Kareepra | | 00123700 |
| | | Mayyanad | | 00126600 |
| | | Meenad | | 00126800 |
| | | Nedumpana | | 00126200 |
| | | Poothakulam | | 00127100 |
| | | Pallimon | | '00126300 |
| | | Thazhuthala | | 00126500 |
| | | Pooyappally | | 00124300 |
| | | Thrikkovilvattom | | '00126400 |
| | | Mylakkad | | 6I1b |
| Meenad I | | 6I23a | | |

| | | | |
|----|---|---|-----------------|
| 7 | Names & Codes of the micro-watersheds | Meenad II | 6l23c |
| | | Uppukadavu | 6l24a |
| | | Plakkadu | 6l2a |
| | | Neelamthazham | 6l2c |
| | | Kakkathoppu | 6l2k |
| 8 | Four major reasons for selection of watershed | Dilapidated traditional irrigation systems | |
| | | Low productivity of land | |
| | | Strong presence of SC/ST, BPL families and marginal farmers | |
| | | Poor adaptation to climate change | |
| 9 | Area of the Project (ha.) | 4916 | |
| 10 | Area proposed to be treated (ha.) | 4917 | |
| 11 | Project Cost (Rs. in Lakhs) | 737.55 | |
| 12 | Name and Address of proposed PIA | Ithikkara | Block Panchayat |

Table-PPR 8: Details of previously identified DPAP/ DDP areas proposed under IWMP (ha) during the financial year*

There are no DPAP/DDP blocks identified in Kerala

Table-PPR 9: Land Use pattern of the project*

(Area in ha)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | |
|---|---------------|--------------------------------|-------------|----------|-------------|----------|-------------|----------|--------------------|-------------------|------------------------------------|-------------|-----------------------------|---------------|--------------------|------------|----------------|
| | | | | | | | | No | Name of watersheds | Names of villages | Geographical Area of the watershed | Forest Area | Land under agricultural use | Rain fed area | Permanent pastures | Wasteland | |
| | | | | | | | | | | | | | | | | Cultivable | Non-cultivable |
| 1 | Mylakkad | Adichanalloor, Mayyanad, | 818 | 0 | 720 | 818 | 0 | 0 | 98 | | | | | | | | |
| 2 | Meenad I | Adichanalloor, Chirakkara, | 709 | 0 | 526 | 709 | 0 | 107 | 77 | | | | | | | | |
| 3 | Meenad II | Chirakkara, Meenad, | 540 | 5 | 488 | 540 | 0 | 7 | 40 | | | | | | | | |
| 4 | Uppukadavu | Adichanalloor, Mayyanad, | 53 | 0 | 49 | 53 | 0 | 0 | 4 | | | | | | | | |
| 5 | Plakkadu | Adichanalloor, Nedumpana, | 914 | 0 | 864 | 914 | 0 | 6 | 44 | | | | | | | | |
| 6 | Neelamthazham | Kareepra, Nedumpana, Pallimon, | 909 | 0 | 807 | 909 | 0 | 41 | 61 | | | | | | | | |
| 7 | Kakkathoppu | Adichanalloor, Kareepra, | 973 | 0 | 837 | 973 | 0 | 16 | 120 | | | | | | | | |
| | Total | | 4916 | 5 | 4916 | 5 | 4916 | 5 | 4916 | | | | | | | | |

Source of data:

Kerala state land use board and Panchayat resource map

IV. AGRO-CLIMATIC CONDITION

Details about soil types, land uses etc. are given as additional tables

| Table – PPR 10: Details of Agro-climatic condition* | | | | | | | | | | | | | | | | |
|---|-----------------------|--|--|--|--|--|--|--|---|--|--|--|-------------|--|------------------------|--|
| 1 | 2 | | | | 3 | | | | 5 | | | | 7 | | 8 | |
| No | Name of the watershed | | | | Name of the Agro-climatic zone covers project area | | | | Names of the villages | | | | Topography# | | Average rainfall in mm | |
| 1 | Mylakkad | | | | Southern midland | | | | Adichanalloor, Mayyanad, Meenad, Thazhuthala | | | | Flat | | 2509 mm | |
| 2 | Meenad I | | | | Southern midland | | | | Adichanalloor, Chirakkara, Meenad | | | | Undulating | | | |
| 3 | Meenad II | | | | Southern midland | | | | Chirakkara, Meenad, Poothakulam | | | | Moderate | | | |
| 4 | Uppukadavu | | | | Southern midland | | | | Adichanalloor, Mayyanad, Meenad | | | | Flat | | | |
| 5 | Plakkadu | | | | Southern midland | | | | Adichanalloor, Nedumpana, Pallimon, Thazhuthala, Thrikkovilvattom | | | | Moderate | | | |
| 6 | Neelamthazham | | | | Southern midland | | | | Kareepra, Nedumpana, Pallimon, Pooyappally | | | | Undulating | | | |
| 7 | Kakkathoppu | | | | Southern midland | | | | Adichanalloor, Kareepra, Nedumpana, Pallimon, Pooyappally | | | | Moderate | | | |

Table – PPR 10 a: Details of soil types and major crops

| 1 | 2 | 6 | | | | | 9 | | | | |
|----|-----------------------|-------------------------|----------------|-------------------|---|-------|-------------|-------|-------|--------|-------|
| No | Name of the watershed | Major soil types | | | | | Major crops | | | | |
| | | Brown hydromorphic soil | Lateritic soil | Riverine alluvium | 0 | Total | Coconut | Paddy | Mixed | Rubber | Total |
| 1 | Mylakkad | 0 | 0 | 818 | 0 | 818 | 304 | 25 | 391 | 0 | 720 |
| 2 | Meenad I | 0 | 442 | 267 | 0 | 709 | 129 | 34 | 332 | 30 | 526 |
| 3 | Meenad II | 0 | 540 | 0 | 0 | 540 | 65 | 106 | 306 | 11 | 488 |
| 4 | Uppukadavu | 0 | 0 | 53 | 0 | 53 | 41 | 0 | 8 | 0 | 49 |
| 5 | Plakkadu | 0 | 247 | 667 | 0 | 914 | 207 | 67 | 557 | 34 | 864 |
| 6 | Neelamthazham | 98 | 399 | 412 | 0 | 909 | 62 | 75 | 423 | 247 | 807 |
| 7 | Kakkathoppu | 0 | 524 | 449 | 0 | 973 | 32 | 35 | 544 | 226 | 837 |

Table-PPR 11: Details of flood and drought in the project area*

| 1 | 2 | 3 | 4 | | 5 |
|-------|-------------|---------------------|-------------|---|--------------|
| No | Particulars | Villages | Periodicity | | Not affected |
| | | | Annual | Any other - once in 4 years | |
| 1 | Flood | No. of villages | 0 | 3 | 8 |
| | | Name(s) of villages | 0 | Mayyanad, Poothakulam, Pooyappally | |
| 2 | Drought | No. of villages | 0 | 9 | 2 |
| | | Name(s) of villages | 0 | Adichanalloor, Chirakkara, Kareepra, Mayyanad, Meenad, Nedumpana, Pallimon, Thazhuthala, Thrikkovilvattom | |
| Total | | | 0 | 12 | 0 |

Table-PPR 12 : Details of soil erosion in the project area

| 1 | 2 | 3 | 4 | 5 |
|---------------|-----------------|--------------------|--------------------|------------------------------------|
| Cause | Type of erosion | Area affected (ha) | Run off (mm/ year) | Average soil loss (Tons/ ha/ year) |
| Water erosion | | | | |
| a | Severe | 0 | NA | NA |
| b | Moderate | 4917 | NA | NA |
| c | Slight | 0 | NA | NA |
| Sub-Total | | 4917 | NA | NA |
| Wind erosion | | 0 | NA | NA |
| Total | | 4917 | NA | NA |

V. DEMOGRAPHY AND LAND DISTRIBUTION

Details about population is given as table

Key features of population in Table

| No | Watershed Name | Area (In Ha) | Total Families | Population | | | BPL Families | Land holding/Family (In Ha) |
|----|----------------|--------------|----------------|------------|-------|-------|--------------|-----------------------------|
| | | | | Total | SC | ST | | |
| | | | | 4916 | 18321 | 83324 | | |
| 1 | Mylakkad | 818 | 2767 | 12831 | 9 | 1545 | 784 | 0.30 |
| 2 | Meenad I | 709 | 2875 | 12525 | 1 | 1936 | 846 | 0.25 |
| 3 | Meenad II | 540 | 2052 | 9052 | 3 | 1340 | 594 | 0.26 |
| 4 | Uppukadavu | 53 | 176 | 817 | 1 | 99 | 51 | 0.30 |
| 5 | Plakkadu | 914 | 3568 | 16492 | 4 | 1990 | 1178 | 0.26 |
| 6 | Neelamthazham | 909 | 3724 | 17159 | 1 | 2084 | 1323 | 0.24 |
| 7 | Kakkathoppu | 973 | 3159 | 14447 | 7 | 1790 | 1020 | 0.31 |

VI. LIVELIHOODS

The existing scenario and the opportunities are described in the tables. One more word about capacity building activities. There is tremendous scope of these activities can be organized in the field level in a participatory manner. Of extreme importance is adaptation to climate change. How an effective strategy can be developed is the very question of survival. Then comes the hands on exposure to modern agriculture practices, technologies and machines. Trainings should be imparted in such a manner that new social institutions can be created at grass root level to sustain these initiatives.

Table-PPR 13 Summary of livelihoods

| 1 | 2 | 3 | 4 | 5 | 6 |
|----|-------------------------|--|--|---|---|
| No | Names of the watersheds | Existing livelihood activities | Possible livelihood interventions under the project | Current status of migration (No. of people) | Main reasons for migration |
| 1 | Mylakkad | Employment in construction sector, wage labour in semi skilled and unskilled activities, trading etc. are the major livelihood of the poor people now. Middle and upper class are employed in service sector, government and large private enterprises. Agriculture is not the | Animal husbandry with strong forward and backward linkages and supporting infrastructure and initiatives at the homestead is the main possibility. High yield cows which can be milked in tandem, scientifically constructed cowshed and biogas tank, grass cultivation, | 128 | Lack of job opportunities in the agriculture sector due to low productivity and poor income from land. This is inducing the farmer to fallow the land and search for better alternatives. As more and more people move to the |
| 2 | Meenad I | | | 125 | |
| 3 | Meenad II | | | 91 | |
| 4 | Uppukadavu | | | 8 | |
| 5 | Plakkadu | | | 165 | |
| 6 | Neelamthazham | | | 172 | |
| 7 | Kakkathoppu | | | 144 | |
| | 7 | | | 42 | |

VII. EXPECTED PROJECT OUTCOMES

VII. (i). Expected employment related outcomes:

Table-PPR 14: Employment generation

| 1 | 2 | 3 | | | | | | | | | | 4 | | | | |
|-----|-------------------------|--------------------------|------|--------|-------|-------|----------------------|------|--------|-------|-------|----------------------|-----|--------|-------|-------|
| | | Wage employment | | | | | | | | | | Self employment | | | | |
| | | No. of man-days in '00 s | | | | | No. of beneficiaries | | | | | No. of beneficiaries | | | | |
| No. | Names of the watersheds | SC | ST | Others | Women | Total | SC | ST | Others | Women | Total | SC | ST | Others | Women | Total |
| 1 | Mylakkad | 1 | 155 | 2504 | 1604 | 4263 | 1 | 155 | 2504 | 1604 | 4263 | 1 | 93 | 626 | 1283 | 2002 |
| 2 | Meenad I | 0 | 194 | 2428 | 1566 | 4187 | 0 | 194 | 2428 | 1566 | 4187 | 0 | 116 | 607 | 1253 | 1976 |
| 3 | Meenad II | 0 | 134 | 1757 | 1132 | 3023 | 0 | 134 | 1757 | 1132 | 3023 | 0 | 80 | 439 | 905 | 1425 |
| 4 | Uppukadavu | 0 | 10 | 159 | 102 | 271 | 0 | 10 | 159 | 102 | 271 | 0 | 6 | 40 | 82 | 128 |
| 5 | Plakkadu | 0 | 199 | 3219 | 2062 | 5480 | 0 | 199 | 3219 | 2062 | 5480 | 0 | 119 | 805 | 1649 | 2574 |
| 6 | Neelamthazham | 0 | 208 | 3348 | 2145 | 5702 | 0 | 208 | 3348 | 2145 | 5702 | 0 | 125 | 837 | 1716 | 2678 |
| 7 | Kakkathoppu | 1 | 179 | 2818 | 1806 | 4803 | 1 | 179 | 2818 | 1806 | 4803 | 0 | 107 | 704 | 1445 | 2257 |
| | 7 | 2 | 1078 | 16232 | 10415 | 27729 | 2 | 1078 | 16232 | 10415 | 27729 | 1 | 647 | 4058 | 8332 | 13039 |

Table-PPR 15: Details of migration from Project area

| 1 | 2 | 3 | 4 | 5 | 6 |
|----|-------------------------|--------------------------|-----------------------------------|---|--|
| No | Names of the watersheds | No. of persons migrating | No. of days per year of migration | Major reason(s) for migrating | Expected reduction in no. of persons migrating |
| 1 | Mylakkad | 128 | 12831 | Lack of job opportunities in the agriculture and allied sectors. Low productivity and poor income from land. Rural economic | 103 |
| 2 | Meenad I | 125 | 7390 | | 113 |
| 3 | Meenad II | 91 | 11134 | | 54 |
| 4 | Uppukadavu | 8 | 196 | | 6 |
| 5 | Plakkadu | 165 | 16492 | | 140 |
| 6 | Neelamthazham | 172 | 10124 | | 137 |
| 7 | Kakkathoppu | 144 | 17770 | | 130 |
| | 7 | 42 | 3797 | | 683 |

VII. (ii). Water related outcomes:

Table-PPR 16: Details of average ground water table depth in the project areas

(in meters)

| 1 | 2 | 3 | 4 | 5 | 6 |
|----|-------------------------|----------------|-------------------|-----------------------------|--|
| No | Names of the watersheds | Sources | Pre-Project level | Expected post-project level | Remarks |
| 1 | Mylakkad | Open wells | 8 | 6 | This increase will substantially improve the drinking water availability, reduce the drudgery for fetching water and increase the irrigated areas. But substantial steps to improve water and irrigation efficiency through the application of modern and traditional technologies is essential. There must be simultaneous initiatives to reduce the contamination of surface water and ground water from the residues of pesticides and fertilizers, |
| | | Bore wells | 90 | 72 | |
| | | Others - Ponds | 6 | 5 | |
| 2 | Meenad I | Open wells | 9 | 6 | |
| | | Bore wells | 105 | 84 | |
| | | Others - Ponds | 7 | 6 | |
| 3 | Meenad II | Open wells | 7 | 5 | |
| | | Bore wells | 95 | 76 | |
| | | Others - Ponds | 5 | 5 | |
| 4 | Uppukadavu | Open wells | 6 | 4 | |
| | | Bore wells | 85 | 68 | |
| | | Others - Ponds | 4 | 4 | |
| 5 | Plakkadu | Open wells | 7 | 5 | |
| | | Bore wells | 100 | 80 | |
| | | Others - Ponds | 5 | 5 | |
| 6 | Neelamthazham | Open wells | 8 | 6 | |
| | | Bore wells | 115 | 92 | |
| | | Others - Ponds | 6 | 5 | |
| 7 | Kakkathoppu | Open wells | 9 | 6 | |
| | | Bore wells | 130 | 104 | |
| | | Others - Ponds | 7 | 6 | |

Source of data:

Panchayat development report and resource map report

Table-PPR 17: Status of Drinking water*

| 1 | 2 | 3 | | 4 | | 5 |
|----|-------------------------|--|-----------------------|--|--|--|
| No | Names of the watersheds | Availability of drinking water (no. of months in a year) | | Quality of drinking water | | Comments |
| | | Pre project | Expected post project | Pre project | Expected post project | |
| 1 | Mylakkad | 9 | 10 | Turbulence, hardness, high iron and salinity are the major issues observed. High | Reduced concentration of dissolved salts, less incidence of turbulence, a check regarding the saline intrusion, better bacteriological quality etc. are the major expected post project benefits | The issues listed are culled from varies studies conducted in the area by other agencies. There is also a variation in quality issues during different seasons. More primary |
| 2 | Meenad I | 8 | 10 | | | |
| 3 | Meenad II | 11 | 12 | | | |
| 4 | Uppukadavu | 10 | 11 | | | |
| 5 | Plakkadu | 7 | 9 | | | |
| 6 | Neelamthazham | 11 | 12 | | | |
| 7 | Kakkathoppu | 9 | 10 | | | |
| | 7 | 10 | 10 | | | |

VII. (iii). Crop related outcomes:

Table-PPR 18- Major crops grown and their productivity in the project area

| 1 | 2 | 3 | | 4 | |
|----|------------------|----------------|-----------------------|------------------------------|-----------------------|
| No | Name of the Crop | Current status | | Expected post project status | |
| | | Area (ha) | Productivity (kg/ ha) | Area (ha) | Productivity (kg/ ha) |
| | Kharif | | | | |
| | Paddy | 342 | 2369 | 376 | 2724 |
| | Rabi | | | | |
| | Paddy | 161 | 2226 | 225 | 3673 |

VIII. MANDATORY CERTIFICATION

“It is certified that the State Government of Kerala will abide by the following mandatory conditions laid down by DoLR”

| | |
|----|---|
| 1 | The area of the proposed projects are not covered under assured irrigation |
| 2 | The area of the proposed project is not covered or overlapping with any other watershed projects sanctioned by the central govt./ state govt./ autonomous bodies & others |
| 3 | The State must sign all the mandatory MoUs before implementing the project |
| 4 | The timeframes and milestones of the projects will be followed |
| 5 | The Budget requested for must follow the criteria laid down in the Common Guidelines, 2008 |
| 6 | The State must release matching State Share within 15 days from release of each installment of central funds |
| 7 | Purchase of vehicles and other equipments are not permitted and nor is construction of buildings allowed. Only purchase of computers and related software is permitted |
| 8 | Savings, if any, in each component of the project cost can be utilized only for activities in the Watershed works |
| 9 | The DWDU will have one Member exclusively responsible for monitoring |
| 10 | All works will be evaluated after each phase of completion. Fund release will depend on favourable reports received from evaluators |
| 11 | Evaluators must include only institutions and agencies and not individuals |
| 12 | The State and DRDA cell will furnish monitoring reports and periodical reports as desired by DoLR |
| 13 | Composition of the WDT must be clearly spelt out and the team Members must be fully in place at the time of signing of the MoU of contract between the PIA and DRDA Cell |
| 14 | That DRDA shall release the funds to the PIAs and the watershed committees within 15 days of receipt of the funds |
| 15 | The Watershed Committee must be a registered society under the Societies Registration Act, 1860 |
| 16 | At least one of the WDT Members must be a woman |
| 17 | The Gram Sabhas of the proposed project areas have passed resolutions for people’s contribution towards WDF |
| 18 | Resource-use agreements on the principles of equity and sustainability must be worked out among the User Groups prior to the concerned work being undertaken |
| 19 | The DPR must give detailed justification for the proposed project duration |
| 20 | No works on private lands will be repaired/ maintained from the WDF |

| | |
|----|---|
| 21 | The PIA will start project work within three months of the receipt of first installment by DWDU/agency or else it can come under the purview of foreclosure |
| 22 | The State will not undertake unnecessary foreclosure of the projects. In the event of foreclosure, the State will refund the amount and furnish all necessary documents as desired by DoLR. The State shall also take administrative and legal action against any defalcation, misappropriation, mis-utilization, deliberate negligence and laxity which has caused foreclosure of the project. |

Date:

Signature of officer authorized by State Govt.*

NAME OF OFFICER (IN CAPITAL LETTERS)

DESIGNATION

IX. STATUS OF ON-GOING PROJECTS (DPAP/ DDP/ IWDP)

Table- PPR 19: Details of pending UCs: Statewise* Rs in Lakhs

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | | 10 | 11 | |
|----|----------|---------|----------------|-----------------------------------|-----------------|-----------------|------------------|--------|--------------------------|--------|--|-------------|--------|
| No | District | Project | Instalment no. | Financial year of release of fund | Amount released | Amount utilized | Submission of UC | | Date of submission of UC | | Reasons for not submitting/ delayed submission of UC | Pending UCs | |
| | | | | | | | Due date | Amount | Date | Amount | | Period | Amount |
| 2 | Kollam | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Table- PPR 20: Details of Unspent balance as on _____: District wise*

| 1 | 2 | 3 | 4 | 5 | | 6 |
|----|-----------|---------------------|--------------------------|----------------------|----------|-----------------|
| No | District | Name of the Project | Total cost (Rs. in lakh) | Total funds released | | Unspent balance |
| | | | | (Rs. in lakh) | | |
| | | | | DoLR | State | (Rs. in lakhs) |
| 2 | Kollam | | | | | |
| | 14 | | 0 | 0 | 0 | 0 |

X. ABSTRACT OF PROJECTS PROPOSED FOR SANCTION DURING 2010-11

| | | | |
|---|---|---------------------|---------------|
| 1 | Number of districts to be covered under the present proposal | Thirteen | |
| 2 | No. of Watersheds projects proposed to be taken up under IWMP | Hilly/Desert | Others |
| 3 | Total area to be covered under proposed projects (000' ha) | | |
| | (a) Hilly & Desert areas [#] | 4.92 | |
| | (b) Others | | 0.00 |
| | Total | <u>4.92</u> | <u>0.00</u> |
| 4 | Total cost of the proposed Watershed projects (Rs. in lakhs) | | |
| | (a) Hilly & Desert areas [#] | 737.55 | |
| | (c) Others | | 0.00 |
| | Total | <u>737.55</u> | <u>0.00</u> |
| 5 | First installment required from central funds for the proposed watershed projects | <u>132.76</u> | <u>0.00</u> |

Project Abstract

| | | | |
|---|---|---|-----------------|
| 1 | Title of Project | Integrated Watershed Management Programme in Kollam | |
| 2 | No. of watersheds proposed | <u>7</u> | |
| 3 | Area proposed | <u>4917</u> | <u>hectares</u> |
| 4 | Project Cost | <u>737.55</u> | <u>in lakhs</u> |
| 5 | a | <u>663.795</u> | <u>in lakhs</u> |
| | b | <u>73.76</u> | <u>in lakhs</u> |
| 6 | Designation , address, e-mail and phone number of the officer in ZP/DRDA responsible for this project | Project Director, Poverty Alleviation Unit Kollam District Panchayat | |
| | | Phone | |
| | | E-mail | |

Certificate

Certified that the watershed proposed to be treated in this project does not overlap with any other scheme and there is no duplication of Central/external assistance.

**President
District Panchayat
Kollam**

**Project Director
Poverty Alleviation Unit
District Panchayat
Kollam**