

### Government of India

Ministry of Agriculture and Farmers Welfare (Department of Agriculture, Cooperation and Farmers Welfare)

# NATIONAL

### **CRISIS MANAGEMENT PLAN**

FOR

**DROUGHT** 

2018

Drought Management Division

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#### **Crisis Management Plan**

#### 1. Evolving a CMP....

Crisis Management Plan (CMP) refers to an actionable programme, which can be pressed into action in the event of a crisis situation to minimize damage to life, property and environment.

CMP is designed to help reduce the time taken in mobilizing resources for an effective response and enable a harmonious relationship among stakeholders. The goal of crisis management is to facilitate overall management of the crisis situation in a structured and planned manner with the most efficient and optimum utilisation of time, effort and resources so that adverse impact on the community is minimised.

CMP helps in delineating roles and responsibilities of stakeholders, including Central and State Governments and their agencies in managing the calamity. CMP ensures better preparation and timely communication among stakeholders, which is critical in managing a calamity.

Above all, a CMP should be simple, precise, actionable and monitorable. Accordingly, the CMP identifies trigger-points for various response actions and integrates such actions in an appropriate response matrix that are culled out from departmental contingency action plans of different agencies. The identified priorities of CMP are to clarify the goals and define the roles and responsibilities of various responders (Ministries / Departments, Organisations and individuals) involved in crisis management, and putting together a communication process for quickly notifying the public in the event of a crisis.

The Plan outlined in this document does not replace the emergency procedures or contingency action plans already drawn by different agencies, but merely collates them in a manner that lends itself to a smooth and concerted response in a crisis situation. Care has been taken to include all aspects of crisis

management in this CMP document, yet, potentially there may arise occasions when an entirely new and unforeseen crisis situation may warrant an entirely different response than can be planned for in advance. However, experience has shown that team building and preparedness in consonance with a practical and prudent CMP can enable handling of unforeseen situations with greater alacrity and impact

This Crisis Management Plan (CMP) is part of overall spectrum of Drought Management but is focused on management interventions required during the time of crisis.

#### 2. Drought - a Crisis

About 56% of the net cultivated area of the country is rain-fed accounting for 44% of food production. Thus Monsoon rainfall is crucial for agriculture production and food security of the country. It also has negative spin off effects on other sectors of the economy.

South West Monsoon (June to September) rainfall contributes to about 73% of total rainfall in the country. Timely onset and spatial distribution of rainfall is crucial for cultivation of Kharif crops that accounts for about 90% of paddy, 70% of coarse cereals and 70% oilseed production of the country. Rainfall especially during the months of June and July are crucial for sowing of Kharif crops. Coastal areas of peninsular India, in particular Tamil Nadu receive bulk of their annual rainfall from the North-East Monsoons, between October and December.

Drought connotes a situation of water shortage for human, cattle and agriculture primarily on account of, though not limited to significant shortfall in rainfall. The revised Manual for Drought Management of the Department of Agriculture, Cooperation and Farmers' Welfare, December 2016 (the Manual) has discussed rainfall, vegetative indices, progression of crop sowing, soil moisture and hydrological indices in a cogent matrix for the determination of drought.

The mechanism for anticipating and managing droughts necessarily differs from similar arrangements related to other natural calamities (like earthquakes, floods, cloudbursts, tsunami etc) or man-made disasters, for the following reasons:

- (i) Slow and almost imperceptible onset coupled with a prolonged duration as against other disasters, which have rapid and often dramatic onset, and a limited salience; and
- (ii) Early warning indicators in case of droughts tend to be ambiguous and non-definitive.

Government of India in 2002 decided to retain the management of drought with the Department of Agriculture, Cooperation & Farmers' Welfare when at the time the management of all other types of natural and man-made disasters was being transferred to the Ministry of Home Affairs.

#### **Monitoring of drought**

Central and State Governments monitor following parameters that may indicate an onset of drought like conditions:

(i) Rainfall (ii) Progression of sowing (iii) Remote sensing based Vegetative Indices (iv) Soil Moisture Based Indices (v) Hydrological Indices

The Crop Weather Watch Group in the Department of Agriculture, Cooperation and Farmers' Welfare (DAC&FW&FW) and the Drought Monitoring Centres (DMCs) under the State Disaster Management Authorities should meet frequently, and at least once a week during the South-West Monsoon season to monitor portents of drought. The methodology for an objective assessment of all relevant parameters are described in chapter 3 of the Manual.

#### **Early indicators of Drought**

The following constitute 'early warning indicators':

#### **Kharif** (June to September)

- i) Delay in onset of South-West Monsoon.
- ii) Long 'break' during the of South-West Monsoon season.
- iii) Insufficient rains and skewed spatial distribution, particularly during the months of June and July.
- iv) Rise in price of fodder.
- v) Absence of rising trend in reservoir levels and / or reduction in stream flows and depletion rate of groundwater.
- vi) Drying up of sources of rural drinking water supply.
- vii) Declining trend in the progress of sowing as compared to total normal sown areas.
- viii) Out migration of rural population.

#### Rabi (November to January)

- i) Deficiency in closing figures for South-West Monsoon (30<sup>th</sup> September).
- ii) Serious depletion in level of Ground Water compared to figures for "normal years".
- iii) Fall in the level of reservoirs compared to the corresponding period in 'normal years' indication of poor recharge following SW Monsoon.
- iv) Indication of marked soil moisture stress.
- v) Rise in price of fodder.

vi) Increased deployment of water through tankers

(For Tamil Nadu & Pondicherry the crucial period is North East Monsoon – October to December).

#### **Management of Drought**

The primary responsibility of managing drought (or any other natural disasters) is that of the State Governments. The role of Central Government is to supplement the efforts of the State Government in effective management of disasters and provide additional resources (food grains / financial assistance etc.) to combat the situation.

State Governments should ensure the declaration of drought in accordance with the modalities and timelines in the Manual so that relief assistance can be provided to the drought affected people in time.

#### Advance preparation for drought by Central and State Governments

Following steps to be taken by Central / State Governments after an assessment of vulnerability / risk of drought at district / sub-district levels:

- a) Updated District-wise Crop contingency plans kept in readiness and available with extension functionaries at Block /Tehsil/Mandal/Taluka levels.
- b) Sufficient provisioning for drought resilient varieties of seeds at appropriate hubs.
- c) Sufficient shelf of projects and funds under MGNREGA
- d) Contingency Plans for cattle care, water, health, energy and food kept in readiness at the operational/functional levels.
- e) Repair of Hand Pumps and drinking water schemes through flexi funds & state's own resources.
- f) Repair of Transformers in rural areas.
- g) Desiltation / repair of canals.
- h) Identification of sites / organisations for cattle camps.
- i) Increasing and strengthening the number of Fodder Banks.
- j) Collect the storm water in nallahs and store in natural or artificial ponds, tanks, recharge pits etc. to recharge ground water.

#### **Drought Declaration**

The Manual has specified a detailed modality for monitoring and determination of spatial expanse and intensity of drought based on objective parameters, to be further established on the basis of ground truthing through field verification. State Governments are expected to adhere to the Manual for an objective, transparent and timely declaration of drought.

#### 3. Crisis Management Framework

It is the framework of crisis analysis aimed at identification of fundamental aspects of Crisis situation (Phases of crisis, magnitude, outcome of crisis [Impact], trigger mechanism and strategic response matrix).

| Leve<br>1 | Phases of<br>Crisis | Vulnerabili<br>ty<br>Magnitude<br>(area<br>specific)<br>(Scale:   | Outcome of<br>the Crisis<br>Phase |     | Strategic Response<br>Matrix/Action  |
|-----------|---------------------|---|-----------------------------------|-----|--|
| 1         | Normal              | Zero-10)  Zero  (Rainfall is +19% to -19% cumulativel y for more than 4 weeks period throughout the season) | Nil                               | Nil | <ul> <li>Constant         monitoring of         drought-related         parameters.</li> <li>Conservation of         rain water by         checking surface         run offs.</li> </ul> |

| 2 | Alert/Wat | 1-2                     | Incipient. | • CAP     | ➤ Wide publicity          |
|---|-----------|-------------------------|------------|-----------|---------------------------|
| _ | ch        |                         | Sudden     | (Crop) -  | for the                   |
|   | CII       | Forecast of             |            | Contingen | Contingency               |
|   |           | late onset of           |            | cy Action | Crop Plan                 |
|   |           | monsoon                 | employment | Plan.     | through effective         |
|   |           | coupled                 | employment |           | C                         |
|   |           | with                    |            | • CAP     | agro advisory<br>services |
|   |           |                         |            | (Water)   |                           |
|   |           | continuing water crisis |            | • CAP     | ➤ Propagation of          |
|   |           |                         |            | (Health)  | short-term water          |
|   |           | and heat                |            |           | conservation              |
|   |           | wave.                   |            |           | measures, water           |
|   |           | Delayed                 |            |           | budgeting,                |
|   |           | onset of                |            |           | Proper health             |
|   |           | monsoon                 |            |           | advisories and            |
|   |           | and                     |            |           | ensuring                  |
|   |           | anticipated             |            |           | availability of           |
|   |           | deficit                 |            |           | emergency                 |
|   |           | rainfall in             |            |           | medical services          |
|   |           | the areas               |            |           | ➤ While on going          |
|   |           | already                 |            |           | works under               |
|   |           | affected by             |            |           | MGNREGS                   |
|   |           | drought                 |            |           | would continue,           |
|   |           | from the                |            |           | yet district/block        |
|   |           | previous                |            |           | panchayat levels          |
|   |           | year.                   |            |           | to remain in              |
|   |           | (Apr - Jun)             |            |           | complete                  |
|   |           | (Rainfall               |            |           | readiness to cater        |
|   |           | forecast is             |            |           | to a spurt in             |
|   |           | expected to             |            |           | demand on wage            |
|   |           | be less than            |            |           | employment                |
|   |           | the normal              |            |           | under                     |
|   |           | rainfall and            |            |           | MGNREGS.                  |
|   |           | below -19%              |            |           | ➤ Monitoring over         |
|   |           | and the                 |            |           | exploitation of           |
|   |           | deficit                 |            |           | ground water for          |
|   |           | continues               |            |           | non- agricultural         |
|   |           | for more                |            |           | and non-                  |
|   |           | than 2-3                |            |           | drinking                  |
|   |           | weeks &                 |            |           | purposes (i.e.            |
|   |           | Soil                    |            |           | industrial                |
|   |           | moisture                |            |           | /commercial/              |
|   |           | level is                |            |           | entertainment             |
|   |           | unsustainab             |            |           | purposes)                 |
|   |           | le)                     |            |           | Advisory Note:            |
|   |           |                         |            |           | (The ULBs may be          |
|   |           |                         |            |           | directed to control       |
|   |           |                         |            |           | the extraction of         |
|   |           |                         |            |           | water)                    |
|   |           |                         |            |           | ➤ Energising the          |
|   |           |                         | ٥          |           |                           |

|   |         |   |          |   | Identified alternative sources for the requirement of water, food, fodder and power.  Meeting of Crisis Management Group (CMG) to review and revitalise the role of concerned machineries.  The State Executive Committee (SEC) to meet  |
|---|---------|---|----------|---|--|
| 3 | Warning | Delayed onset of monsoon. Deficit Rainfall for more than two weeks. Acute water crisis (Jun-Mid July) (Rainfall is less than the normal rainfall and below -19% and the deficit continues for more than 3 - 6 weeks & Soil moisture, GW & SW level is lower than previous | Moderate | • CAP (Crop) • CAP (Water) • CAP (Health) • CAP (Food & PD) | ➤ District Crop Contingency Plan put into operation. ➤ Operationalising short-term water conservation measures by municipal and district agencies, water- budgeting by Ministry of Water Resources (Irrigation), M/o Urban Development (PHED) and by Drinking Water & Sanitation(utilizi ng flexi funds or state's own resources).  Advisory Note: Identify alternative sources when the town is in "Warning" period |

|  | normal  |    | and the supply of   |
|--|---------|----|---------------------|
|  |         |    |                     |
|  | average |    | water may be as     |
|  |         |    | per norm issued by  |
|  |         |    | M/o Drinking        |
|  |         |    | water and           |
|  |         |    | Sanitation.         |
|  |         |    | ➤ Judicious use of  |
|  |         |    | drinking water      |
|  |         |    | (restricted         |
|  |         |    | supply of water     |
|  |         |    | for basic           |
|  |         |    | requirement and     |
|  |         |    | alternative non-    |
|  |         |    |                     |
|  |         |    | potable water for   |
|  |         |    | other purposes)     |
|  |         |    | ➤ Meeting of CMG    |
|  |         |    | to review the       |
|  |         |    | action plan         |
|  |         |    | initiated by line   |
|  |         |    | Departments         |
|  |         |    | and affected        |
|  |         |    | State               |
|  |         |    | Governments         |
|  |         |    | and taking          |
|  |         |    | decision for        |
|  |         |    | movement of         |
|  |         |    | water and           |
|  |         |    | fodder from         |
|  |         |    |                     |
|  |         |    | surplus areas       |
|  |         |    | (States) to the     |
|  |         |    | deficit areas       |
|  |         |    | (States).           |
|  |         |    | ➤ Review and Visit  |
|  |         |    | by Area Officers    |
|  |         |    | in the deficit      |
|  |         |    | rainfall States.    |
|  |         |    | ➤ Apprising the     |
|  |         |    | developments to     |
|  |         |    | National Crisis     |
|  |         |    | Management          |
|  |         |    | Committee           |
|  |         |    |                     |
|  |         |    | (NCMC)/<br>National |
|  |         |    |                     |
|  |         |    | Executive           |
|  |         |    | Committee and       |
|  |         |    | State Executive     |
|  |         |    | Committee in        |
|  |         |    | the States.         |
|  |         |    | ➤ MGNREGA           |
|  |         | 11 |                     |

|   |          |               |        | T             |                     |
|---|----------|---------------|--------|---------------|---------------------|
|   |          |               |        |               | related works to    |
|   |          |               |        |               | be                  |
|   |          |               |        |               | operationalized     |
|   |          |               |        |               | in full swing.      |
|   |          |               |        |               | Provision of Mid    |
|   |          |               |        |               | Day Meal in         |
|   |          |               |        |               | Schools during      |
|   |          |               |        |               | vacation.           |
| 4 | Emergenc | 5-7           | Severe | • CAP (Crop)  | ➤ Referring the     |
|   | у        |               | 55.525 | • CAP         | issue to (NEC) for  |
|   | )        | Deficit or    |        | (Water)       | taking up with      |
|   |          | No rainfall   |        | • CAP (Cattle | cabinet for taking  |
|   |          | during the    |        | Care)         | certain vital       |
|   |          | sowing        |        | • CAP         | decisions like      |
|   |          | period.       |        |               | deferment/          |
|   |          | Mid- season   |        | (Health)      | rescheduling /      |
|   |          | withdrawal    |        | • CAP (EGP)   | fresh loan,         |
|   |          | of monsoon.   |        | • CAP (Food   | movement of         |
|   |          | Dry spell     |        | & PD)         | water and fodder    |
|   |          | for more      |        |               |                     |
|   |          | than 4        |        |               | through railways,   |
|   |          | weeks.        |        |               | additional          |
|   |          |               |        |               | allocation of food  |
|   |          | Deficit       |        |               | grains,             |
|   |          | rainfall in   |        |               | establishing cattle |
|   |          | the range of  |        |               | camps,              |
|   |          | 20% to -      |        |               | alternative         |
|   |          | 40%.          |        |               | employment          |
|   |          | Wilting of    |        |               | generation          |
|   |          | Crops due     |        |               | programmes,         |
|   |          | to shortage   |        |               | enhancing PDS       |
|   |          | of water      |        |               | allocations,        |
|   |          | and           |        |               | import of food      |
|   |          | continuing    |        |               | grains to meet the  |
|   |          | heat wave     |        |               | gap between         |
|   |          | conditions.   |        |               | demand and          |
|   |          | (JUL -SEP)    |        |               | supply, checking    |
|   |          |               |        |               | up of inflation     |
|   |          | (Rainfall is  |        |               | etc.                |
|   |          | less than the |        |               | Advisory Note:      |
|   |          | normal        |        |               | In the 'Emergency'  |
|   |          | rainfall and  |        |               | period, water may   |
|   |          | below -25%    |        |               | be supplied as per  |
|   |          | and the       |        |               | norm issued by      |
|   |          | deficit       |        |               | M/o Drinking        |
|   |          | continue for  |        |               | water and           |
|   |          | more than -   |        |               | Sanitation.         |
|   |          | 6 weeks &     |        |               |                     |
|   |          | Soil          |        |               | ➤ Early release of  |
|   |          | moisture,     |        |               | instalments         |
|   |          |               | 12     |               |                     |

|   |            | GW & SW     |          |               | under State            |
|---|------------|-------------|----------|---------------|------------------------|
|   |            | level is    |          |               | Disaster               |
|   |            |             |          |               |                        |
|   |            | alarmingly  |          |               | Response Fund          |
|   |            | low)        |          |               | (SDRF) and             |
|   |            |             |          |               | ensuring that the      |
|   |            |             |          |               | State                  |
|   |            |             |          |               | Governments            |
|   |            |             |          |               | utilise it for initial |
|   |            |             |          |               | emergency              |
|   |            |             |          |               | measures.              |
|   |            |             |          |               | ➤ MGNREGA              |
|   |            |             |          |               | Works to               |
|   |            |             |          |               | continue in full       |
|   |            |             |          |               | swing.                 |
|   |            |             |          |               | ➤ Monitoring and       |
|   |            |             |          |               | visit of deficit       |
|   |            |             |          |               | rainfall States        |
|   |            |             |          |               |                        |
|   |            |             |          |               | personally by          |
|   |            |             |          |               | each designated        |
|   |            |             |          |               | area officer in the    |
|   |            |             |          |               | Department             |
|   |            |             |          |               | Apprising the          |
|   |            |             |          |               | developments to        |
|   |            |             |          |               | National Crisis        |
|   |            |             |          |               | Management             |
|   |            |             |          |               | Committee              |
|   |            |             |          |               | (NCMC) on              |
|   |            |             |          |               | regular basis.         |
|   |            |             |          |               | ➤ Measures for         |
|   |            |             |          |               | meeting the            |
|   |            |             |          |               | shortage of            |
|   |            |             |          |               | secondary and          |
|   |            |             |          |               | tertiary sectors.      |
|   |            |             |          |               | ➤ Provision of Mid     |
|   |            |             |          |               | Day Meals in           |
|   |            |             |          |               | 3                      |
|   |            |             |          |               | Schools during         |
|   |            |             |          |               | vacation.              |
|   |            |             |          |               | Distribution of        |
|   |            |             |          |               | Food Rations           |
|   |            |             |          |               | wherever needed.       |
| 5 | Acute      | <u>7-10</u> | EXTREME  | • CAP         | ➤ Decision by          |
|   | (Potential |             | (FULL    | (Water)       | Cabinet for            |
|   | Disaster)  | Early       | BLOWN    | • CAP (Cattle | Constitution of        |
|   |            | withdrawal  | DROUGHT) | Care)         | GoM / Task             |
|   |            | of monsoon. |          | • CAP (Social | Force under the        |
|   |            | Midseason   |          | Sector)       | chairmanship of a      |
|   |            | withdrawal. |          | • CAP         | Union Minister of      |
|   |            | . Severe    |          | (Energy       | Cabinet rank to        |
|   |            |             |          | (Little 5)    |                        |

| 1 (* *)      |                                       | C 1 \       | . 1 1                |
|--------------|---------------------------------------|-------------|----------------------|
| deficit of   |                                       | Sector)     | take decisions       |
| cumulative   |                                       | • CAP       | during acute         |
| annual       |                                       | (Health)    | crisis.              |
| rainfall.    |                                       | • CAP (Food |                      |
| Severe soil  |                                       | & PD)       | drought affected     |
| moisture     |                                       | • CAP       | States               |
| deficit. No  |                                       | (Labour &   | individually by      |
| rainfall for |                                       | Employmen   | each designated      |
| more than    |                                       | t)          | area office in the   |
| 4-6 weeks in |                                       |             | Department           |
| sown area,   |                                       |             | about ongoing        |
| resulting in |                                       |             | relief measures.     |
| crop         |                                       |             | ➤ Weekly CMG         |
| damage       |                                       |             | meeting and          |
| Severe       |                                       |             | monitoring of the    |
| shortage in  |                                       |             | progress of          |
| availability |                                       |             | drought relief       |
| of GW &      |                                       |             | measures.            |
| SW.          |                                       |             | Review of visit by   |
| (JUL -       |                                       |             | Area Officers to     |
| OCT)         |                                       |             | the deficit rainfall |
|              |                                       |             | States.              |
| (Rainfall is |                                       |             | ➤ Strict Water       |
| less than    |                                       |             | conservation         |
| normal and   |                                       |             | measures and         |
| below -25%   |                                       |             | monitoring of the    |
| and the      |                                       |             | release of canal     |
| deficit      |                                       |             | water for            |
| continue for |                                       |             | irrigation.          |
| more than -  |                                       |             | ➤ Constitution of    |
| 6 weeks &    |                                       |             | Central Teams to     |
| Soil         |                                       |             | visit to drought     |
| moisture,    |                                       |             | declared States.     |
| GW & SW      |                                       |             | ➤ Assessment of      |
| level is     |                                       |             | damages and          |
| alarmingly   |                                       |             | estimation of        |
| low)         |                                       |             | losses for release   |
|              |                                       |             | of funds from        |
|              |                                       |             | National Disaster    |
|              |                                       |             | Response Fund        |
|              |                                       |             | (NDRF) Special       |
|              |                                       |             | assistance to        |
|              |                                       |             | farmers / dairy /    |
|              |                                       |             | Poultry / fishery    |
|              |                                       |             | sectors.             |
|              |                                       |             | ➤ Enabling           |
|              |                                       |             | employment           |
|              |                                       |             | under                |
|              | · · · · · · · · · · · · · · · · · · · |             |                      |

| 6 | Recovery           | <b>10-0</b> | Mitigated | • CAP                 | MGNREGS as a part of supplementary employment and as a social safety net support.  Revitalising the ongoing programmes for vulnerable sections of society  Preventive measures for loss of human / cattle life on account of potential disaster.  Measures for meeting the shortage of secondary and tertiary sectors and measures for economic revival.  Legislative measures for economic revival.  Legislative for maintaining sustained supply of essential commodities.  Video Conferencing with drought affected States.  MGNREGS works to continue in full swing.  Distribution of food Rations  Mid day Meal distribution in schools. |
|---|--------------------|-------------|-----------|-----------------------|---|
| U | (Post<br>Disaster) | (OCT - JUN) | wiingateu | (Water) • CAP (Cattle | farm loans  > Early release of  |
|   | ,                  |             |           | Care)                 | input subsidy   |
|   |                    | Normal      |           |                       |   |

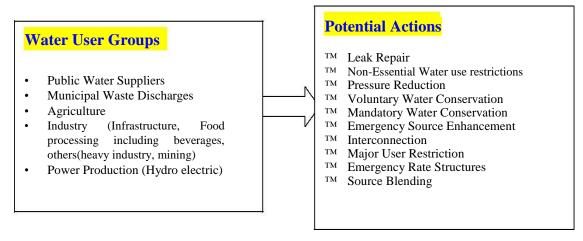
| rain | nfall in  | • CAP       | ➤ Payment of        |
|------|-----------|-------------|---------------------|
| Ral  |           | (Energy     | compensation for    |
| sub  | sequent   | Sector)     | losses in time to   |
|      | sons.     | • CAP       | the beneficiaries   |
| Eas  | sing of   | (Health)    | i.e. agri-          |
| soil | O         | • CAP       | insurance,          |
| mo   | isture    | (Employme   | NDRF/ State         |
| stre | ess       | nt          | Disaster Relief     |
| situ | ation     | Guarantee   | Fund SDRF           |
| Far  | ming/R    | Programme   | (formerly CRF)      |
| ura  | Ο.        | s)          | benefits etc.       |
| con  | nmunity'  | • CAP (Food | ➤ Adequate          |
| s 1: | ivelihood | & PD)       | availability of     |
| req  | uirement  | • CAP       | seeds for sowing    |
| s    | Returning | (Labour &   | in the next         |
| to   | normal    | Employmen   | season.             |
| acti | ivity.    | t)          | ➤ Monitoring of the |
|      |           | 7           | ongoing relief      |
|      |           |             | measures and        |
|      |           |             | taking necessary    |
|      |           |             | course correction   |
|      |           |             | ➤ Simultaneous      |
|      |           |             | documentation       |
|      |           |             | ➤ Monitoring of the |
|      |           |             | climate and         |
|      |           |             | ensuring            |
|      |           |             | alternative         |
|      |           |             | arrangements        |
|      |           |             | against relapse of  |
|      |           |             | the drought.        |

**Note**: Contingency Action Plans (CAP) in respect of Crop, Water, Cattle Care, Health, Energy Sector, Food and livelihood Security) – (To be prepared by concerned Central Government Ministries/ Departments)

The effective preparedness and mobilization to mitigate the impact of drought in agriculture is a very important task before the Governments at the centre and the states. Preparation and implementation of effective Crop Contingency Plans in districts go a long way in the mitigation of crisis in agriculture in the event of a drought. The Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad under ICAR has been preparing district-wise contingency plans in collaboration with State Agricultural Universities (SAUs) / Indian Council of Agricultural Research (ICAR) institutes / Krishi Vigyan Kendras (KVKs). The district-wise contingency plans for 623 districts in the country are

now available on the website of the Department <a href="http://www.agricoop.nic.in/acp.html">http://www.agricoop.nic.in/acp.html</a>, <a href="http://farmer.gov.in/">http://farmer.gov.in/</a>, <a href="http://crida.in/">http://crida.in/</a>.

#### Specific Attention to Water User Groups:



### 4. Strategic Activity Planner

| Activity                         | Jun | Jul | Aug  | Sep   | Oct  | Nov  | Dec  | Jan | Feb | Mar | Apr | May |
|----------------------------------|-----|-----|------|-------|------|------|------|-----|-----|-----|-----|-----|
|                                  |     |     | DROU | GHT P | REPA | REDI | NESS |     | •   |     |     |     |
| Reviewing CMP                    |     |     |      |       |      |      |      |     |     |     |     |     |
| Monitoring                       | •   | •   | •    | •     | •    | •    | 1    | •   | •   |     |     |     |
| Rainfall                         |     |     |      |       |      |      |      |     |     |     |     |     |
| Temperature                      |     |     |      |       |      |      |      |     |     |     |     |     |
| Surface water level              |     |     |      |       |      |      |      |     |     |     |     |     |
| Normal Area Vs Sown<br>Area      |     |     |      |       |      |      |      |     |     |     |     |     |
| Assessment                       |     |     |      |       |      |      |      |     |     |     |     |     |
| Drinking water<br>Availability   |     |     |      |       |      |      |      |     |     |     |     |     |
| Irrigation water<br>Availability |     |     |      |       |      |      |      |     |     |     |     |     |
| Soil Moisture                    |     |     |      |       |      |      |      |     |     |     |     |     |
| Fodder availability              |     |     |      |       |      |      |      |     |     |     |     |     |

|                    |         |       | 1    |       |       |       |     | 1        |          |     |     |     |
|--------------------|---------|-------|------|-------|-------|-------|-----|----------|----------|-----|-----|-----|
| Activity           | Jun     | Jul   | Aug  | Sep   | Oct   | Nov   | Dec | Jan      | Feb      | Mar | Apr | May |
| Food grains        |         |       |      |       |       |       |     |          |          |     |     |     |
| availability       |         |       |      |       |       |       |     |          |          |     |     |     |
| avanaomity         |         |       |      |       |       |       |     |          |          |     |     |     |
| Energy Sector      |         |       |      |       |       |       |     |          |          |     |     |     |
| requirement        |         |       |      |       |       |       |     |          |          |     |     |     |
| requirement        |         |       |      |       |       |       |     |          |          |     |     |     |
| Inputs and Seed    |         |       |      |       |       |       |     |          |          |     |     |     |
| availability       |         |       |      |       |       |       |     |          |          |     |     |     |
| avanaomey          |         |       |      |       |       |       |     |          |          |     |     |     |
| Water Conservation | mea     | sures |      |       |       |       |     |          | 1        |     |     |     |
| Check dams /       |         |       |      |       |       |       |     |          |          |     |     |     |
| Water sheds        |         |       |      |       |       |       |     |          |          |     |     |     |
| Water Sheds        |         |       |      |       |       |       |     |          |          |     |     |     |
| Rain Water         |         |       |      |       |       |       |     |          |          |     |     |     |
| Harvesting         |         |       |      |       |       |       |     |          |          |     |     |     |
| Tui vooiiig        |         |       |      |       |       |       |     |          |          |     |     |     |
| Ground Water       |         |       |      |       |       |       |     |          |          |     |     |     |
| Recharge           |         |       |      |       |       |       |     |          |          |     |     |     |
| recharge           |         |       |      |       |       |       |     |          |          |     |     |     |
| Protection of      |         |       |      |       |       |       |     |          |          |     |     |     |
| aquatic resources  |         |       |      |       |       |       |     |          |          |     |     |     |
| for aquaculture    |         |       |      |       |       |       |     |          |          |     |     |     |
| for aquaculture    |         |       |      |       |       |       |     |          |          |     |     |     |
|                    |         |       | DROU | GHT I | REPOI | RTING |     | <u> </u> |          |     | ı   |     |
|                    |         | 1     |      |       |       |       |     |          |          |     |     |     |
| Early Warning Sys  | stem () | EWS)  |      |       |       |       |     |          |          |     |     |     |
| Forecast of        |         |       |      |       |       |       |     |          |          |     |     |     |
| Contingency        |         |       |      |       |       |       |     |          |          |     |     |     |
| Cropping           |         |       |      |       |       |       |     |          |          |     |     |     |
| Cropping           |         |       |      |       |       |       |     |          |          |     |     |     |
| Forecast of Crop   |         |       |      |       |       |       |     |          |          |     |     |     |
| Loss               |         |       |      |       |       |       |     |          |          |     |     |     |
| <b>L</b> 000       |         |       |      |       |       |       |     |          |          |     |     |     |
| Forecast of Water  |         |       |      |       |       |       |     | <u> </u> |          |     |     |     |
| Deficiency         |         |       |      |       |       |       |     |          |          |     |     |     |
| Deficiency         |         |       |      |       |       |       |     |          |          |     |     |     |
| Forecast of Food   |         |       | +    |       |       |       |     |          |          |     |     |     |
|                    |         |       |      |       |       |       |     |          |          |     |     |     |
| insecurity         |         |       |      |       |       |       |     |          |          |     |     |     |
| Forecast of Cattle |         |       | +    |       |       | 1     |     |          |          |     |     |     |
|                    |         |       |      |       |       |       |     |          |          |     |     |     |
| feed deficit       |         |       |      |       |       |       |     |          |          |     |     |     |
| Declaration of     |         |       |      |       |       |       |     |          |          |     |     |     |
|                    |         |       |      |       |       |       |     |          |          |     |     |     |
| Drought            |         |       |      |       |       |       |     |          |          |     |     |     |
| Estimation         | I       | I     |      |       |       |       |     |          | <u> </u> |     | ]   | 1   |
| Esumauon           |         |       |      |       |       |       |     |          |          |     |     |     |
| Unsown area        |         |       |      |       |       |       |     |          |          |     |     |     |
| Choown alea        |         |       |      |       |       |       |     |          |          |     |     |     |
|                    | 1       | 1     |      |       |       |       |     |          |          |     |     | 1   |

| Activity  | Jun | Jul | Aug | Sep  | Oct | Nov   | Dec  | Jan | Feb | Mar | Apr | May |
|---|-----|-----|-----|------|-----|-------|------|-----|-----|-----|-----|-----|
| Crop Loss due to drought  |     |     |     |      |     |       |      |     |     |     |     |     |
| Potential Water deficit   |     |     |     |      |     |       |      |     |     |     |     |     |
| For irrigation  |     |     |     |      |     |       |      |     |     |     |     |     |
| For drinking  |     |     |     |      |     |       |      |     |     |     |     |     |
| Fodder requirement, availability, additional demand for cattle care |     |     |     |      |     |       |      |     |     |     |     |     |
| Loss to AH/<br>Fisheries  |     |     |     |      |     |       |      |     |     |     |     |     |
| Loss to Energy<br>Sector (fuel and<br>hydroelectricity)             |     |     |     |      |     |       |      |     |     |     |     |     |
|   |     |     |     | DROU | GHT | RESPO | ONSE |     |     |     |     |     |
| Propagation of<br>Forecast through<br>Extension Services            |     |     |     |      |     |       |      |     |     |     |     |     |
| Propagation of contingency cropping                                 |     |     |     |      |     |       |      |     |     |     |     |     |
| Promotion of agro forestry  |     |     |     |      |     |       |      |     |     |     |     |     |
| Issue of Agro<br>advisories   |     |     |     |      |     |       |      |     |     |     |     |     |
| Issue of General advisories   |     |     |     |      |     |       |      |     |     |     |     |     |
| SDRF release  |     |     |     |      |     |       |      |     |     |     |     |     |
| Alternative employment  |     |     |     |      |     |       |      |     |     |     |     |     |

| Activity   | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Food Security to<br>vulnerable<br>Sections   |     |     |     |     |     |     |     |     |     |     |     |     |
| Food grain<br>requirement of<br>farming<br>community   |     |     |     |     |     |     |     |     |     |     |     |     |
| Processing of<br>request for<br>additional<br>financial<br>assistance                                  |     |     |     |     |     |     |     |     |     |     |     |     |
| Water and Fodder movement  |     |     |     |     |     |     |     |     |     |     |     |     |
| Energy Sector requirement (Import / Indigenous procurement from outside the State)                     |     |     |     |     |     |     |     |     |     |     |     |     |
| Cattle & animal welfare (Vet.)   |     |     |     |     |     |     |     |     |     |     |     |     |
| Cattle camp  |     |     |     |     |     |     |     |     |     |     |     |     |
| Encouraging of community welfare organizations for mitigation efforts and monitoring of their activity |     |     |     |     |     |     |     |     |     |     |     |     |

# 5. Agencies responsible for Identified Activities

| Activity                                      | Primary          | Secondary                             | Tertiary                |
|---|------------------|---------------------------------------|-------------------------|
| Monitoring                                    |                  |                                       |                         |
| Reviewing CMP                                 | DAC&FW           | MHA / NDMA                            | NCMC                    |
| <u> </u>                                      |                  |                                       |                         |
| Rainfall                                      | IMD              | States                                | DAC&FW                  |
| Temperature                                   | IMD              | States                                | DAC&FW                  |
| Surface water level                           | CWC / MoWR       | States                                | DAC&FW                  |
| Ground Water level Monitoring of Agricultural | CGWB / MoWR      | States * MNCFC /                      | DAC&FW                  |
| Drought                                       | States           | ICAR Institutes                       | DAC&FW                  |
| Assessment                                    |                  |                                       |                         |
|   |                  | MoDWS                                 |                         |
| 5   |                  | MoWR (CGWB) /                         | D 4 G 0 TW              |
| Drinking water availability                   | States           | PHED (MoUD)                           | DAC&FW                  |
| Irrigation water availability                 | States           | MoWR<br>*MNCFC / IMD /                | DAC&FW                  |
|   |                  | MoWR (Irrigation                      | DAC&FW                  |
| Soil Moisture                                 | States           | Wing)                                 | (NRM Division)          |
| Fodder, cattle feed and                       |                  |                                       |                         |
| poultry feed availability                     | States           | Do AH&D                               | DAC&FW                  |
| Food grains availability                      | States           | D/o F&PD<br>M/o Power /               | DAC&FW                  |
|   |                  | Petroleum &                           |                         |
| Energy Sector requirement                     | States           | Natural Gas                           | DAC&FW                  |
| 7   |                  |                                       |                         |
|   |                  | State / National                      |                         |
|   |                  | agencies /                            |                         |
|   |                  | corporations for                      | DAC&FW (Seeds PP & INM  |
|   |                  | Seeds/ Fertilizers /                  | Div) /                  |
| Inputs and Seed availability                  | States           | Pests & Insecticides                  | D/o Fertlizers          |
| W. G.   |                  |                                       |                         |
| Water Conservation measures                   |                  | DAC&FW / RD (LR) /                    |                         |
| Chaola domo / Woton cho do                    | States           | · · · · · · · · · · · · · · · · · · · | DAC & EW (NDM Division) |
| Check dams / Water sheds                      | States           | MoWR                                  | DAC&FW (NRM Division)   |
| Deficit irrigation, Sprinkler                 |                  |                                       |                         |
| and drip irrigation, reuse of                 |                  |                                       |                         |
| irrigation water, use of water                | G                | MoWR (Irrigation                      | DACOEW                  |
| of suboptimal quality Rain Water Harvesting & | States           | Wing)                                 | DAC&FW                  |
| Water Shed Management                         | States           | MoWR / CGWB                           | DAC&FW                  |
| Ground Water Recharge                         | States           | CGWB                                  | MoWR                    |
| Adjustment in sanction water                  |                  |                                       |                         |
| /Water Pricing                                | States           | CWC                                   | MoWR                    |
| Monitoring of Water levels in                 | ULB /            | Public Health<br>Engineering          |                         |
| Head works such as Jack                       | Implementing     | Department / State                    |                         |
|   |                  | Governments/state                     |                         |
| wells and Tubewells                           | Agency           | irrigation & WR deptt.                | DAC&FW                  |
|   |                  | Public Health<br>Engineering          |                         |
|   | ULB / Department | Department / State                    |                         |
| Judicial use of available water               | in-charge of O&M | Governments                           | MoWR                    |
| Planting of naturally drought                 |                  | IGAD (D)                              |                         |
|   |                  |                                       |                         |
| restraint crops with less water               | Ctotos           | ICAR / Directorate                    | DACGERIAGE B            |
|   | States           | of Extension                          | DAC&FW (Crops Division) |

| 1                               | i                | i                 | 1            |
|---------------------------------|------------------|-------------------|--------------|
| arranged supply of water to     |                  |                   |              |
| commercial and industrial       |                  |                   |              |
| activities having low water     |                  |                   |              |
| consumption                     |                  |                   |              |
| Reduction in conveyance loss,   |                  |                   |              |
| evaporation from soil surface,  |                  |                   |              |
| renovation and percolation of   | Curton           | CWC               | M-WD         |
| tanks, water consciousness      | States           | CWC               | MoWR         |
|                                 |                  |                   |              |
| Early Warning System (EWS)      |                  |                   |              |
| Forecast of Contingency         |                  | DAC&FW            |              |
| Cropping                        | States           | (Extn.)           | DAC&FW       |
|                                 |                  | ICAR / DAC&FW     |              |
| Forecast of Crop Loss           | States           | (Extn.)           | DAC&FW       |
| Forecast of Water Deficiency    | States           | MoWR / DWS        | DAC&FW       |
| Forecast of Food Insecurity     | States           | D/o Food & PD     | DAC&FW       |
| Forecast of Cattle feed deficit | States           | D/o AHD           | DAC&FW       |
|                                 |                  |                   |              |
|                                 |                  |                   |              |
| Declaration of Drought          | States           |                   |              |
| Estimation                      |                  |                   |              |
| Normal Area Vs sown area        | States           | DAC&FW            |              |
| Unsown area                     | States           | DAC&FW            |              |
|                                 |                  |                   |              |
| Crop Loss due to drought        | States           | DAC&FW            |              |
| Loss to Animal Husbandry &      | Curton           | D-AHD 0 E         |              |
| Fisheries Sector                | States           | DoAHD&F           |              |
| Potential Water deficit         |                  |                   |              |
| For irrigation                  | States           | MoWR              | DAC&FW       |
| For drinking                    | States           | MoDWS             | DAC&FW       |
| Fodder / cattle feed / poultry  |                  |                   |              |
| feed requirement, availability, |                  |                   |              |
| additional demand for cattle    |                  |                   |              |
| care                            | States           | DoAHD&F           | DAC&FW       |
| Loss to Energy Sector and       | a                | Power / Petroleum | D. C.O. ETV. |
| Requirement of Energy Sector    | States           | & Natural Gas     | DAC&FW       |
| Drought Mitigation              |                  |                   |              |
| Propagation of Forecast         | Extensions       |                   |              |
| through Extn. Services          | Agencies / KVKs  | States            | DAC&FW       |
| Promotion of contingency        |                  |                   |              |
| cropping                        | States           | ICAR              | DAC&FW       |
| Intensification of agricultural | Respective       |                   |              |
| activities with support from    | Missions /       |                   |              |
| Centrally Sponsored Schemes     | agencies         | States            | DAC&FW       |
|                                 | Respective       |                   |              |
| Additional Availability of      | agencies /       |                   |              |
| seeds and other inputs          | corporations     | States            | DAC&FW       |
|                                 | Agriculture Coop |                   |              |
|                                 | Banks /          |                   |              |
|                                 | Nationalised &   |                   |              |
| Con 1:4 Share                   | Scheduled Banks  | Curton            | DAGREW       |
| Credit Support                  | NABARD / RBI     | States            | DAC&FW       |
| Propagation of agro forestry    | States           | M/o E&F           | DAC&FW       |
| Issue of Agro advisories        | States           | DAC&FW/IMD        |              |
| Issue of General advisories     | States           | DAC&FW            |              |
| SDRF release                    | M/o Finance      | States            |              |
|                                 |                  | D/o Rural         |              |
| Alternative employment          | States           | Development       | DAC&FW       |
| Food Security to vulnerable     |                  | M/o WCD / SJ & E  |              |
| Sections                        | States           | / RD              | DAC&FW       |
| Food grain requirement of       |                  | ·                 |              |
| 1 ood gram requirement or       | I                | I                 | 1            |

| farming community            | States               | D/o F&PD          | DAC&FW                  |
|------------------------------|----------------------|-------------------|-------------------------|
| Request for additional       |                      |                   |                         |
| financial assistance from    |                      |                   |                         |
| NDRF etc.                    | States               | DAC&FW            | HLC / M/o Finance       |
| Water and Fodder movement    | States               | Railways          | DAC&FW                  |
| Packaged / Bottled potable   |                      | M/o DWS, WCD,     |                         |
| Water(In emergency only)     | States               | SJ&E, RD          | DAC&FW                  |
|                              |                      | Power / Petroleum |                         |
| Energy Sector requirement    | States               | & Natural Gas     | DAC&FW                  |
| Cattle & Animal Welfare      |                      |                   |                         |
| (Vet.)                       | States               | D/o AH,D&F        | DAC&FW                  |
| Cattle camp                  | States               | D/o AH,D&F        | DAC&FW                  |
| Monitoring and encouraging   |                      |                   |                         |
| of NGOs / VOs                | States               | Rural Development | DAC&FW                  |
| Taking over of the           |                      |                   |                         |
| exploratory wells in drought |                      |                   |                         |
| prone areas                  | States               | CGWB              | MoWR                    |
| Adoption of traditional      |                      |                   |                         |
| methods of water storage and |                      |                   |                         |
| completion of ongoing        |                      |                   |                         |
| storage projects             | States               | CWC               | MoWR                    |
| Undertaking Mid/ Long –      |                      |                   |                         |
| Term Drought Mitigation      |                      |                   | Ministry/ Department of |
| activities under Centrally   | District             | Respective        | Panchayati Raj, Land    |
| Sponsored Programmes for     | Administrations      | Departments in    | Resources, Drinking     |
| water shed, Backward         | 7 Gillinisti attolis | States            | Water Supply, Rural     |
| Regions, Drinking Water      |                      |                   | Development,            |
| Supply, infrastructure       |                      |                   | Agriculture             |

<sup>\*</sup>MNCFC = MAHALANOBIS NATIONAL CROP FORECAST CENTRE

#### 6. Monitoring & Reporting of Drought

The State Governments will send weekly report to DMCs, Govt. of India on Monsoon Rain and its impact on Agriculture from 15<sup>th</sup> May to 30<sup>th</sup> September at e-mail drought.krishi@nic.in

Mahalanobis National Crop Forecast Centre (MNCFC) headed by a Director has been created as an attached office of Department of Agriculture & Cooperation and has been functioning since April, 2012, near Krishi Vistar Sadan, Pusa Campus, New Delhi-110012 (Tel: 011-25843224, 25843229 & Fax: 011-25843225). MNCFC has the mandate to prepare multiple-in-season crop forecasts and assessments of drought situation using state of the art techniques and methodologies for selected major crops.

The project National Agricultural Drought Assessment and Monitoring System (NADAMS) developed by National Remote Sensing Centre (NRSC), ISRO has since been transferred to MNCFC. NADAMS envisages use of remote sensing and meteorological data for assessment of crops in 17 agriculturally important states in India.

The IMIS portal of the National Rural Drinking Water Programme (MoDWS) can provide vital information on water provisioning in drought prone states.

#### 7. Dissemination of Information and Media Management

Sharing information with print, radio and television and social media is an important aspect of drought management. The Central and State Governments should provide credible and verified information on relevant aspects of drought to the people and media.

For effective dissemination of information up to village level, states are advised to collect and prepare data repositories of e-mail addresses right up to the village level. District wise e-groups of government employees and of important stakeholders often helps in quick dissemination of information and synchronized action.

Designated spokespersons of governments should be accessible to media for providing information on drought, for which a communication outreach strategy may be adopted. Periodic briefings for dissemination of information could be considered.

Additional Secretary and Central Drought Relief Commissioner, Department of Agriculture and Cooperation, Government of India and the Relief Commissioners in state governments should plan media strategy.

#### 8. Crisis Management Group

There shall be a Crisis Management Group (CMG) for Drought Management to manage the various phases of drought. The composition of the CMG for Drought is at **Appendix 1**. Joint Secretary (Drought Management), the nodal officer nominated by the Department of Agriculture, Cooperation & Farmers Welfare will be the Member-Secretary of CMG. CMG under the Chairmanship of Additional Secretary & Central Drought Relief Commissioner will periodically review the state of drought preparedness, take appropriate decisions and report the developments to the Union Agriculture Secretary, the National Crisis Management Committee (NCMC) and the state governments.

At the State level, a similar set up, as envisaged at the Centre, shall be created to review the crisis.

At the District level, the District Magistrate / Collector would be the head of the CMG.

#### 9. Nodal Officers

Central and state governments will nominate nodal officers from related, line Departments / Ministries/ agencies, responsible for different sets of activities connected with crisis management of drought. Such officers will normally be not below the rank of Director or equivalent in the Government of India. The list of nodal officers containing their names, designations, telephone (office / residence), FAX, e-mail, mobile numbers and addresses shall be maintained in the Drought Monitoring Centre (Control Room) of the Department of Agriculture, Cooperation & Farmers Welfare, Government of India and will be updated every month.

At the District level, District Magistrates / Collectors will constitute their respective crisis management teams consisting of district level officials of line departments.

#### 10. Drought Monitoring Centers (DMCs) at State level

The Manual of Drought Management 2016 and the National Disaster Management Authority (NDMA) Guidelines, 2010 enjoin upon states to create separate DMCs with adequate staff to report to the State Disaster Management Authorities (SDMAs) and the Relief Commissioners. The State DMCs will be provided with

requisite administrative, technical and data management personal as described in Chapter 2 of the Manual referred to above.

#### 11. Drought Management Contacts

- Composition of Crisis Management Group (CMG) **Appendix-1**
- List of Nodal Officers of Line Ministries / Departments **Appendix-2**
- List of Officers of Drought Management Division– Appendix-3
- List of districts where drought declared in the last 7 years- **Appendix-4**
- Composition of Crop Weather Watch Group for Drought Management in DAC&FW – Appendix-5

#### 12. Conclusion

The aim of the drought CMP is to help all stake holders to be better prepared to manage drought. It will aid in a timely and effective response by government agencies so as to reduce the impact on rural communicates and environment in the event of a drought crisis. The strategic activity planner and identification of agencies responsible for managing the crisis is aimed at delineation of duties of personnel in identified activities.

#### **LIST OF MEMBERS OF CRISIS MANAGEMENT GROUP**

1. Chairman - Additional Secretary & Central Drought Relief Commissioner

#### 2. **Members** –

#### **Nodal Officers of Line Ministries / Departments:**

- i. D/o Animal Husbandry, Dairying & Fisheries
- ii. M/o Drinking Water and Sanitation
- iii. M/o Earth Sciences
- iv. M/o Environment & Forests
- v. D/o Food & Public Distribution
- vi. M/o Health & Family Welfare
- vii. M/o Home Affairs
- viii. India Meteorological Department, M/o Earth Sciences
- ix. M/o Labour & Employment
- x. D/o Land Resources
- xi. M/o Petroleum & Natural Gas
- xii. M/o Power
- xiii. M/o Railways
- xiv. D/o Rural Development
- xv. M/o Urban Development
- xvi. M/o Water Resources and Ganga Rejuvenation
- xvii. M/o Women & Child Development
- 3. Member Secretary Joint Secretary (Drought Management)

### **LIST OF NODAL OFFICERS OF THE LINE MINISTRIES / DEPARTMENTS**

| _  | Tar   | 15   |
|----|---|--|
| S. | Name of the Ministry / Department & Address   | Details of Nodal Officer / Alternate Nodal |
| No |   | Officer                                    |
| 1. | D/o Animal Husbandry, Dairying &              | Shri P.K. Anand,                           |
|    | Fisheries,                                    | Joint Director (Extension & LI),           |
|    | Krishi Bhawan, New Delhi                      | Room No.432-A,                             |
|    |   | Krishi Bhawan, New Delhi                   |
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| Tel: 23070593 E-mail: directordmcpng@gmail.com   |  | Room No.211-B, 2 <sup>nd</sup> Floor,  |
| Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   |  | Room No 211-B 2 <sup>nd</sup> Floor  |
| Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   |  |  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | Room No.211-B. 2 <sup>nd</sup> Floor   | (= \ (= \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | (Distribution & MKt. Coordination),  | w Deini   (Distribution & Mkt. Coordination),  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | New Delni   (Distribution & Mkt. Coordination),  | w Delhi (Distribution & Mkt. Coordination),  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | I New Deini (Distribution & Ivikt. Coordination),  | w Delhi (Distribution & Mkt. Coordination),  |
| Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   | New Delfil   (Distribution & Mkt. Coordination),   | w Delhi (Distribution & Mkt. Coordination),  |
| Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   | LINEW DEIDI LOSSTIDUTION & IVIKT. COORDINATION)  |  |
| Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   |  |  |
| Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   |  |  |
| Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   |  |  |
| Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   | I DIEM LIGHT   |  |
| Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   | I New Deini I (Distribution & Mrt. Coordination).  |  |
| Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   | New Deiril   (Distribution & MKt. Coordination),   | w Delhi (Distribution & Mkt. Coordination),  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | New Deini   (Distribution & Ivikt. Coordination),  | w Delhi (Distribution & Mkt. Coordination),  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | (Distribution & Ivikt. Coordination),  | w Delhi (Distribution & Mkt. Coordination),  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | New Deini (Distribution & Mkt. Coordination),  | w Delhi (Distribution & Mkt. Coordination),  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | (Distribution & MKt. Coordination),  | w Delini   (Distribution & MKt. Coordination),   |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | Poom No 244 D 2 <sup>nd</sup> Elect  | W Domi   |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | Pom No 211.R 2 <sup>nd</sup> Elor  | (Distribution & Witt. Coolullation),   |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | Dom No 214 D 2 <sup>nd</sup> Elect   | Total Data Vince Opportunitation,  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | Poor No. 241 P. 3rd Floor  | Televinori di Minti Occidination),   |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  | Room No 211-B 2 <sup>nd</sup> Floor  |  |
| Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>  |  |  |
| Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   |  | Room No 211-R 2 <sup>nd</sup> Floor  |
| Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   | Shastri Bhawan, New Delhi  | Room No.211-B, 2 <sup>nd</sup> Floor,  |
| E-mail: <u>directordmcpng@gmail.com</u>  |  | Room No.211-B, 2 <sup>nd</sup> Floor,  |
|  |  | Room No.211-B, 2 <sup>nd</sup> Floor,  |
|  | 1  | Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi   |
|  | E-mail: directordmcpng@gmail.com   | Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593  |
| Altarnata Madal Officer  | Alternate Nadal Officer  | Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593  |
| Alternate Nodal Officer  | Alternate Nodal Officer  | Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: directordmcpng@gmail.com  |
| Alternate Nodal Officer Chaile M. Mahaah Disaatas (LBC)  | Alternate Nodal Officer  | Room No.211-B, 2 <sup>nd</sup> Floor,<br>Shastri Bhawan, New Delhi<br>Tel: 23070593<br>E-mail: <u>directordmcpng@gmail.com</u>   |
| Shri K.M. Mahesh. Director (LPG).  | Shri K.M. Mahesh. Director (LPG).  | Room No.211-B, 2 <sup>nd</sup> Floor, Shastri Bhawan, New Delhi Tel: 23070593 E-mail: directordmcpng@gmail.com  Alternate Nodal Officer  |

|     |  | ,  |
|-----|--|--|
| 13  | M/o Railways<br>Railway Board,<br>Rail Bhavan,<br>New Delhi  | Shri Satyendra Kumar, Director, Traffic Transportation (POL), Room No.152, Rail Bhawan, New Delhi Tel: 23384649, E-mail:   |
|     |  | Alternate Nodal Officer Shri P.Srinivas, Director, Safety-III Room No.362,Rail Bhavan, New Delhi Tel: 23303239 Fax:23385047 E-mail:dsafety3@rb.railnet.gov.in  |
| 14. | D/o Rural Development<br>Krishi Bhavan,<br>New Delhi.  | Shri A.K. Sumbly, Deputy Secretary (MGNREGA), Room No.464, Krishi Bhawan, New Delhi. Tel: 23070129(F) E-mail: ak.sumbly@nic.in   |
| 15. | M/o Urban Development<br>(CPHEEO)<br>Nirman Bhavan,<br>New Delhi.  | Shri M. Dhinadhayalan, Joint Adviser (PHE) Room No.654, A Wing, Nirman Bhawan, New Delhi. Tel: 23062418 Fax: 23062559  Alternate Nodal Officer Shri V.K. Chaurasia, Deputy Adviser (PHE), R.No.660-A, Nirman Bhawan, Tel: 23061144 (O) |
| 16. | M/o Water Resources, Block No.11, 8 <sup>th</sup> floor, CGO Complex, Lodi road, New Delhi.  | Fax: 23062559 Shri Vijay Kumar Nagpure, Director Water Management Directorate, Central Water Commission, Tel: 26107403 (o) E-mail: vjynagpure@yahoo.com  |
| 17. | M/o Women & Child Development<br>Shastri Bhavan,<br>New Delhi.   | Shri Krishna Bahadur Singh,<br>Director (ICDS)<br>Ministry of Women & Child<br>Development, Shastri Bhavan, New Delhi<br>Tel: 23385192 (o)<br>Mail: kb.singh@gov.in  |
| 18. | D/o Agriculture, Cooperation & Farmers<br>Welfare<br>(Seed Division)   | Shri S Selvaraj<br>Deputy Commissioner(Seed)<br>Tel. 011-23389242  |
| 19. | D/o Agriculture, Cooperation & Farmers<br>Welfare,<br>Mahalanobish National Crop Forecast<br>Centre(MNCFC),<br>Pusa Campus, New Delhi-110012 | Dr. Shibendu S. Ray, Director, MNCFC, Tel: 011 -25843224 E mail: shibendu.ncfc@nic.in  |

## Appendix-3

## DETAILS OF OFFICERS OF DROUGHT MANAGEMENT DIVISION

| Sl.No. | Name & Designation   | Room<br>No. | Telephone                          | E-mail                |
|--------|--|-------------|------------------------------------|-----------------------|
| 1      | Ms. Upma Srivastava,<br>Additional Secretary &<br>Central Drought Relief<br>Commissioner | 129         | 23381305 (O)<br>23389348 (Telefax) | ascc-agri@nic.in      |
| 2      | Shri K. S Srinivas Joint Secretary (DM)  | 133         | 23073384 (O)<br>23384468 (Fax)     | jsdm-agri@gov.in      |
| 3      | Ms. Rajni Taneja, Deputy Secretary (DM)  | 233         | 23386741 (O)                       | rajni.taneja66@nic.in |
| 4      | Shri Vijay Soni,<br>Under Secretary (DMC)  | 22          | 23389453 (O)                       | vijay.soni70@gov.in   |
| 5      | Shri Balram Prasad Bimal,<br>Under Secretary (DM)  | 573         | 23382922 (O)                       | bp.bimal@gov.in       |
| 6      | Drought Monitoring Cell<br>(Control Room)  | 22          | 23389453 (O)<br>23384555 (O)       | drought.krishi@nic.in |
| 7      | Drought Management Section   | 387         | 23383309<br>(Telefax)              | drought.krishi@nic.in |

# Appendix-4

# List of Districts where drought was declared by the State Government in the years from 2011-12 to 2017-18

| State          | District       | Years  |         |
|----------------|----------------|--|---------|
|                |                | Kharif   | Rabi    |
| Andhra Pradesh | Anantapur      | 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17 | 2017-18 |
|                | Chittoor       | 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17 |         |
|                | East Godavari  | 2011-12  |         |
|                | Guntur         | 2011-12, 2012-13, 2014-15, 2015-16                   |         |
|                | Krishna        | 2011-12, 2015-16                                     |         |
|                | Kurnool        | 2011-12, 2012-13, 2014-15, 2016-17                   |         |
|                | Prakasam       | 2011-12, 2012-13, 2014-15, 2015-16, 2016-17          | 2017-18 |
|                | SPSR Nellore   | 2011-12, 2012-13, 2014-15, 2015-16, 2016-17          | 2017-18 |
|                | Srikakulam     | 2011-12, 2015-16, 2016-17                            |         |
|                | Visakhapatnam  | 2011-12  |         |
|                | Vizianagram    | 2011-12, 2013-14, 2015-16                            | 2017-18 |
|                | West Godavari  | 2011-12  |         |
|                | YSR Kadapa     | 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17 | 2017-18 |
| Telangana      | Adilabad       | 2011-12  |         |
|                | Karimnagar     | 2011-12, 2015-16                                     |         |
|                | Khammam        | 2011-12, 2015-16                                     |         |
|                | Mahabubnagar   | 2011-12, 2012-13, 2013-14, 2015-16                   |         |
|                | Medak          | 2011-12, 2013-14, 2015-16                            |         |
|                | Nalgonda       | 2011-12, 2012-13, 2013-14, 2015-16                   |         |
|                | Nizamabad      | 2011-12, 2015-16                                     |         |
|                | Ranga Reddy    | 2011-12, 2015-16                                     |         |
|                | Warangal       | 2011-12, 2015-16                                     |         |
| Bihar          | Gaya           | 2013-14  |         |
|                | Jahanadad      | 2013-14  |         |
|                | Aurangabad     | 2013-14  |         |
|                | Nawada         | 2013-14  |         |
|                | Patna          | 2013-14  |         |
|                | Nalanda        | 2013-14  |         |
|                | Bhojpur        | 2013-14  |         |
|                | Buxar          | 2013-14  |         |
|                | Kaimur         | 2013-14  |         |
|                | Munger         | 2013-14  |         |
|                | Shekhpura      | 2013-14  |         |
|                | Lakhisarai     | 2013-14  |         |
|                | Jamui          | 2013-14  |         |
|                | Begusarai      | 2013-14  |         |
|                | Khagaria       | 2013-14  |         |
|                | Madhubani      | 2013-14  |         |
|                | Darbhanga      | 2013-14  |         |
|                | Samastipur     | 2013-14  |         |
|                | Bhagalpur      | 2013-14  |         |
|                | Siwan          | 2013-14  |         |
|                | Saran          | 2013-14  |         |
|                | Gopalganj      | 2013-14  |         |
|                | Muzaffarpur    | 2013-14  |         |
|                | Sitamarhi      | 2013-14  |         |
|                | Vaisali        | 2013-14  |         |
|                | Sheohar        | 2013-14  |         |
|                | East Champaran | 2013-14  |         |

|             | West Champaran  | 2013-14          |   |
|-------------|-----------------|------------------|---|
|             | Madhepura,      | 2013-14          |   |
|             | Supaul          | 2013-14          |   |
|             | Sharsa          | 2013-14          |   |
|             | Purnea          | 2013-14          |   |
|             | Katihar         | 2013-14          |   |
| Chattisgarh | Raipur          | 2015-16, 2017-18 |   |
| CIMVIOGNIII | Gariaband       | 2015-16, 2017-18 |   |
|             | Mahasamund      | 2015-16, 2017-18 |   |
|             | Dhamtary        | 2015-16, 2017-18 |   |
|             | Durg            | 2015-16, 2017-18 |   |
|             | Balod           | 2015-16, 2017-18 |   |
|             | Bemetara        | 2015-16, 2017-18 |   |
|             | Rajnandgaon     | 2015-16, 2017-18 |   |
|             | Kabirdham       | 2015-16, 2017-16 |   |
|             |                 | 2015-16          |   |
|             | Bastar          |                  |   |
|             | Kondagaon       | 2015-16, 2017-18 |   |
|             | Narayanpur      | 2015-16, 2017-18 |   |
|             | Kanker          | 2015-16, 2017-18 |   |
|             | Dantewara       | 2015-16, 2017-18 | 1 |
|             | Sukma           | 2015-16          |   |
|             | Bijapur         | 2015-16, 2017-18 |   |
|             | Bilaspur        | 2015-16, 2017-18 |   |
|             | Mungeli         | 2015-16, 2017-18 |   |
|             | Janjgir-Chamap  | 2015-16, 2017-18 |   |
|             | Korba           | 2015-16, 2017-18 |   |
|             | Balrampur       | 2015-16          |   |
|             | Surajpur        | 2015-16          |   |
|             | Koria           | 2015-16, 2017-18 |   |
|             | Raigarh         | 2015-16, 2017-18 |   |
|             | Jashapur        | 2015-16          |   |
|             | Baloda Bazar    | 2017-18          |   |
| Gujarat     | Ahmedabad       | 2012-13          |   |
|             | Amreli          | 2012-13          |   |
|             | Anand           | 2012-13          |   |
|             | Banaskantha     | 2012-13, 2015-16 |   |
|             | Bharuch         | 2012-13          |   |
|             | Bhavnagar       | 2012-13          |   |
|             | Gandhinagar     | 2012-13          |   |
|             | Jamnagar        | 2012-13, 2015-16 |   |
|             | Junagadh        | 2012-13          |   |
|             | Kheda           | 2012-13          |   |
|             | Kutch           | 2012-13, 2015-16 |   |
|             | Mehsana         | 2012-13          |   |
|             | Patan           | 2012-13          |   |
|             | Porbandar       | 2012-13, 2015-16 |   |
|             | Rajkot          | 2012-13, 2015-16 |   |
|             | Surendranagar   | 2012-13          |   |
|             | Vadodara        | 2012-13          |   |
|             | Devbhumi Dwarka | 2015-16          |   |
| Haryana     | Ambala          | 2014-15          |   |
| y min       | Bhiwani         | 2014-15          |   |
|             | Faridabad       | 2014-15          | + |
|             | Palwal          | 2014-15          |   |
|             | Fatehabad       | 2014-15          |   |
|             | Gurgaon         | 2014-15          |   |
|             | Mewat.          | 2014-15          |   |
|             | microt.         | 33               |   |

| Imaginar   2014-15   |           | Hisar          | 2014-15 |                                       |
|--|-----------|----------------|---------|---------------------------------------|
| Jind   |           |                |         |                                       |
| Kaithal   2014-15   Kurukshetra   2014-15   Kurukshetra   2014-15   Kurukshetra   2014-15   Mahendragarh   2014-15   Pandikkula   2014-15   Panipat   2015-16   Panipata   2015-1 |           |                |         |                                       |
| Karral   2014-15   Mahendragarh   2014-15   Mahendragarh   2014-15   Panipat   2015-16   Panipat   2015- |           | ,              |         |                                       |
| Kurukshetra   2014-15  |           |                |         |                                       |
| Mahendragarh   2014-15   Paripat   2015-16   |           |                |         |                                       |
| Panipat  |           |                |         |                                       |
| Panipat  |           | U              |         |                                       |
| Rewari   |           |                |         |                                       |
| Rohtak   2014-15   Sirsa   2014-15   Sonipat   2014-15   Sonipat   2014-15   Sonipat   2014-15   Sonipat   2014-15   Sonipat   2015-16   Sonipat |           |                |         |                                       |
| Sirsa   2014-15   Sonipat   2014-15   Sonipat   2014-15   Sonipat   2014-15   Sonipat   2014-15   Sonipat   2014-15   Sonipat   2015-16   Sonipat   2015-16   Sonipat   2015-16   Sonipat   2015-16   Sonipate   2015-16  |           |                |         |                                       |
| Sonipat   2014-15   Yamunanagar   2014-15  |           |                |         |                                       |
| Namunangar   2014-15   2015-16   |           |                |         |                                       |
| Narkhand   2015-16   |           |                |         |                                       |
| Khunti   |           |                |         |                                       |
| Lohardaga   2015-16   Gumla   2015-16   Simidega   2015-16   West Singhbhum   2015-16   Saraikela   2015-16   2015-16   Saraikela   2015-16   2015-16   Saraikela   2015-16   2015 | Jharkhand |                |         |                                       |
| Gumla   2015-16  |           | Khunti         | 2015-16 |                                       |
| Simdega   2015-16  |           | Lohardaga      | 2015-16 |                                       |
| West Singhbhum   2015-16   |           | Gumla          | 2015-16 |                                       |
| Saraikela   2015-16   East Singhbhum   2015-16   Carhwa   2015-16    |           | Simdega        | 2015-16 |                                       |
| Saraikela   2015-16   East Singhbhum   2015-16   Carhwa   2015-16    |           | West Singhbhum | 2015-16 |                                       |
| Palamu   |           |                | 2015-16 |                                       |
| Garhwa   2015-16   Latehar   2015-16   |           | East Singhbhum | 2015-16 |                                       |
| Latehar   2015-16   Hazaribagh   2015-16   Ramgarh   2015-16   Koderma   2015-16   Koderma   2015-16   |           | Palamu         | 2015-16 |                                       |
| Hazaribagh   2015-16   Ramgarh   2015-16   Coderma   2015-16   C |           | Garhwa         | 2015-16 |                                       |
| Ramgarh   2015-16   Koderma   2015-16  |           | Latehar        | 2015-16 |                                       |
| Ramgarh   2015-16   Roderma   2015-16  |           | Hazaribagh     | 2015-16 |                                       |
| Koderma   2015-16   Dhanbad   2015-16   Bokaro   2015-16   Chatra   2015-16   Chatra   2015-16   Dumka   2015-16   Dumka   2015-16   Dumka   2015-16   Dumka   2015-16   Deoghar   2015-16   Deoghar   2015-16   Giridih   2015-16   Giridih   2015-16   Belgaum   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Belgaum   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Bidar   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Bijapur   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Chikkaballapura   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2016-17   Chikkaballapura   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2016-17   Chitradurga   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2016-17   2016-17   Davangere   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Chitradurga   2011-12, 2012-13, 2013-14, 2015-16, 2016-17    |           |                | 2015-16 |                                       |
| Dhanbad   2015-16   Bokaro   2015-16   Chatra   2015-16   Dumka   2015-16   Dumka   2015-16   Dumka   2015-16   Doghar   2015-16   Deoghar   201 |           |                | 2015-16 |                                       |
| Bokaro   |           |                | 2015-16 |                                       |
| Dumka   2015-16   Godda   2015-16   Deoghar   2015-16   Deoghar   2015-16   Jamtara   2015-16   Giridih   2015-16   Giridih   2015-16   Sagalkote   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Belgaum   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Belgaum   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Bidar   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Bijapur   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Chamarajnagar   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2016-17   2016-17   Chikkaballapura   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2016-17   Chitradurga   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2016-17   Chitradurga   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2016-17   Davangere   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Dharwad   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Gadag   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Gulbarga   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Gulbarga   2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17   2015-16, 2016-17   Haveri   2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17   2015-16, 2016-17   Kolar   2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17   2015-16, 2016-17   Koppal   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Mandya   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Mandya   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Raichure   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   Raichure   2011-12, 2012-13, 2013-14, 2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, 2016-17   2015-16, |           | Bokaro         |         |                                       |
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| Belgaum         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2015-16, 2016-17           Bellary         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2015-16, 2016-17           Bidar         2011-12, 2012-13, 2014-15, 2015-16         2015-16, 2016-17           Bijapur         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2015-16, 2016-17           Chamarajnagar         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2016-17           Chikkaballapura         2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17         2016-17           Chikamagalur         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2016-17           Chitradurga         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2016-17           Davangere         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2016-17           Dharwad         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2015-16, 2016-17           Gadag         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2015-16, 2016-17           Gulbarga         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2015-16, 2016-17           Hasan         2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17         2016-17           Haveri         2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17         2016-17           Kolar         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2016-17 </th <th>Karnataka</th> <th></th> <th></th> <th>2015-16, 2016-17</th>  | Karnataka |                |         | 2015-16, 2016-17                      |
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| Chitradurga2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Davangere2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Dharwad2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Gadag2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Gulbarga2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172015-16Hasan2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Haveri2011-12, 2012-13, 2013-14, 2016-172015-16, 2016-17Kolar2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Koppal2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17   |           | 1              |         |                                       |
| Davangere       2011-12, 2012-13, 2013-14, 2015-16, 2016-17       2016-17         Dharwad       2011-12, 2012-13, 2013-14, 2015-16, 2016-17       2015-16, 2016-17         Gadag       2011-12, 2012-13, 2013-14, 2015-16, 2016-17       2015-16, 2016-17         Gulbarga       2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17       2015-16         Hasan       2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17       2016-17         Haveri       2011-12, 2012-13, 2013-14, 2016-17       2015-16, 2016-17         Kolar       2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17       2016-17         Koppal       2011-12, 2012-13, 2013-14, 2015-16, 2016-17       2015-16, 2016-17         Mandya       2011-12, 2012-13, 2013-14, 2015-16, 2016-17       2016-17         Mysore       2011-12, 2012-13, 2013-14, 2015-16, 2016-17       2015-16, 2016-17         Raichure       2011-12, 2012-13, 2015-16, 2016-17       2016-17  |           | Ü              |         |                                       |
| Dharwad2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Gadag2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Gulbarga2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172015-16Hasan2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Haveri2011-12, 2012-13, 2013-14, 2016-172015-16, 2016-17Kolar2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Koppal2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17   |           |                |         |                                       |
| Gadag2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Gulbarga2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172015-16Hasan2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Haveri2011-12, 2012-13, 2013-14, 2016-172015-16, 2016-17Kolar2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Koppal2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17   |           |                |         |                                       |
| Gulbarga2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172015-16Hasan2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Haveri2011-12, 2012-13, 2013-14, 2016-172015-16, 2016-17Kolar2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Koppal2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17   |           |                |         | ,                                     |
| Hasan2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Haveri2011-12, 2012-13, 2013-14, 2016-172015-16, 2016-17Kolar2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Koppal2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17  |           | · ·            |         | ·                                     |
| Haveri2011-12, 2012-13, 2013-14, 2016-172015-16, 2016-17Kolar2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Koppal2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17  |           |                |         |                                       |
| Kolar2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-172016-17Koppal2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17  |           |                |         |                                       |
| Koppal2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17  |           |                |         | ,                                     |
| Mandya2011-12, 2012-13, 2013-14, 2015-16, 2016-172016-17Mysore2011-12, 2012-13, 2013-14, 2015-16, 2016-172015-16, 2016-17Raichure2011-12, 2012-13, 2015-16, 2016-172016-17   |           |                |         |                                       |
| Mysore         2011-12, 2012-13, 2013-14, 2015-16, 2016-17         2015-16, 2016-17           Raichure         2011-12, 2012-13, 2015-16, 2016-17         2016-17  |           | - 1            |         | ·                                     |
| Raichure 2011-12, 2012-13, 2015-16, 2016-17 2016-17  |           |                |         |                                       |
|  |           |                |         | ·                                     |
| Namanagara   2011-12, 2012-13, 2013-14, 2014-13, 2013-10, 2010-17   2010-17  |           |                |         |                                       |
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|                | Tumkur             | 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17 | 2016-17          |
|----------------|--------------------|--|------------------|
|                | Yadgiri            | 2011-12, 2012-13, 2013-14, 2015-16, 2016-17          | 2015-16, 2016-17 |
|                | Bangalore Rural    | 2011-12, 2012-13, 2014-15, 2015-16, 2016-17          | 2016-17          |
|                | Bangalore Urban    | 2012-13, 2013-14, 2014-15,2016-17                    | 2016-17          |
|                | Shimoga            | 2012-13, 2015-16, 2016-17                            | 2016-17          |
|                | Uttara Kannada     | 2013-14, 2015-16, 2016-17                            | 2016-17          |
|                | Dakshina Kannada   |  | 2016-17          |
|                | Kodagu             | 2015-16, 2016-17                                     | 2016-17          |
|                | Udupi              |  | 2016-17          |
| Kerala         | Idukki             | 2012-13, 2016-17                                     | 2012-13          |
| Itelulu        | Kollam             | 2012-13, 2016-17                                     | 2012-13          |
|                | Thiruvananthapuram | 2012-13, 2016-17                                     | 2012-13          |
|                | Wayanad            | 2012-13, 2016-17                                     | 2012-13          |
|                | Alappuzha          | 2016-17  | 2012-13          |
|                | Kannur             | 2016-17  | 2012-13          |
|                | Ernakulam          | 2016-17  | 2012-13          |
|                |                    |  |                  |
|                | Kasargode          | 2016-17  | 2012-13          |
|                | Kottayam           | 2016-17  | 2012-13          |
|                | Kozhikode          | 2016-17  | 2012-13          |
|                | Malappuram         | 2016-17  | 2012-13          |
|                | Palakkad,          | 2016-17  | 2012-13          |
|                | Pathanamthitta     | 2016-17  | 2012-13          |
|                | Thrissur           | 2016-17  | 2012-13          |
| Maharashtra    | Nashik             | 2011-12, 2012-13, 2014-15, 2015-16                   |                  |
|                | Dhule              | 2011-12, 2012-13, 2014-15, 2015-16                   |                  |
|                | Nandurbar          | 2011-12, 2014-15, 2015-16                            |                  |
|                | Jalgaon            | 2012-13, 2014-15, 2015-16                            |                  |
|                | Ahmednagar         | 2011-12, 2012-13, 2014-15, 2015-16                   | 2012-13, 2015-16 |
|                | Pune               | 2011-12, 2012-13, 2014-15, 2015-16                   | 2012-13          |
|                | Satara             | 2011-12, 2012-13, 2014-15, 2015-16                   | 2012-13          |
|                | Sangli             | 2011-12, 2012-13, 2015-16                            | 2012-13          |
|                | Aurangabad         | 2012-13, 2014-15, 2015-16                            | 2012-13          |
|                | Jalna              | 2012-13, 2014-15, 2015-16, 2015-16                   | 2012-13          |
|                | Beed               | 2012-13, 2014-15, 2015-16                            | 2012-13          |
|                | Latur              | 2011-12, 2012-13, 2014-15, 2015-16                   |                  |
|                | Osmanabad          | 2011-12, 2012-13, 2014-15, 2015-16                   | 2012-13          |
|                | Nanded             | 2012-13, 2014-15, 2015-16                            |                  |
|                | Parbhani           | 2012-13, 2014-15, 2015-16                            |                  |
|                | Hingoli            | 2012-13, 2014-15, 2015-16                            |                  |
|                | Buldhana           | 2011-12, 2012-13, 2014-15, 2015-16                   |                  |
|                | Akola              | 2014-15, 2015-16                                     |                  |
|                | Yavatmal           | 2014-15,2015-16                                      |                  |
|                | Nagpur             | 2011-12, 2014-15, 2015-16                            |                  |
|                | Gadchiroli         | 2011-12, 2014-15, 2015-16                            |                  |
|                | Amaravati          | 2011-12, 2014-15, 2015-16                            |                  |
|                | Washim             | 2014-15, 2015-16                                     |                  |
|                | Wardha             | 2014-15, 2015-16                                     |                  |
|                | Bhandara           | 2014-15, 2015-16                                     |                  |
|                | Chandrapur         | 2014-15, 2015-16                                     |                  |
|                | Goandia            | 2011-12, 2014-15, 2015-16                            |                  |
|                | Solapur            | 2011-12, 2014-10, 2010-10                            | 2012-13, 2015-16 |
| Madle D 1 1    |                    |  | 2312 10, 2010 10 |
| Madhya Pradesh | Katni              | 2015-16  |                  |
|                | Shahdol            | 2015-16, 2017-18                                     |                  |
|                | Umaria             | 2015-16, 2017-18                                     |                  |
|                | Anuppur            | 2015-16  |                  |
| 35             |                    |  |                  |

| T           | 1                | 1 |
|-------------|------------------|---|
| Tikamgarh   | 2015-16, 2017-18 |   |
| Rewa        | 2015-16          |   |
| Jabalpur    | 2015-16          |   |
| Sidhi       | 2015-16, 2017-18 |   |
| Sagar       | 2015-16, 2017-18 |   |
| Damoh       | 2015-16, 2017-18 |   |
| Seoni       | 2015-16          |   |
| Sigroli     | 2015-16          |   |
| Sheopur     | 2015-16, 2017-18 |   |
| Chhatarpur  | 2015-16, 2017-18 |   |
| Bhind       | 2015-16, 2017-18 |   |
| Panna       | 2015-16, 2017-18 |   |
| Satna       | 2015-16, 2017-18 |   |
| Dindori     | 2015-16          |   |
| Shivpuri,   | 2015-16, 2017-18 |   |
| Morena      | 2015-16, 2017-18 |   |
| Jhabua      | 2015-16          |   |
| Mandsaur    | 2015-16          |   |
| Bhopal      | 2015-16          |   |
| Ujjain      | 2015-16          |   |
| Neemuch     | 2015-16          |   |
| Vidishia    | 2015-16, 2017-18 |   |
| Raisen      | 2015-16          |   |
| Rajgarh     | 2015-16          |   |
| Khandwa     | 2015-16          |   |
| Ratlam      | 2015-16          |   |
| Narsinghpur | 2015-16          |   |
| Guna        | 2015-16          |   |
| Betul       | 2015-16          |   |
| Burhanpur   | 2015-16          |   |
| Agar Malwa  | 2015-16          |   |
| Sehore      | 2015-16          |   |
| Indore      | 2015-16          |   |
| Dhar        | 2015-16          |   |
| Shajapur    | 2015-16, 2017-18 |   |
| Harda       | 2015-16          |   |
| Chhindwara  | 2015-16          |   |
| Dewas       | 2015-16          |   |
| Ashoknagar  | 2015-16, 2017-18 |   |
| 1           | 26               |   |

|           | Khargone           | 2015-16  |  |
|-----------|--------------------|--|--|
|           | Hoshangabad        | 2015-16  |  |
|           | Badwani            | 2015-16  |  |
|           | Datia              | 2017-18  |  |
|           | Gwalior            | 2017-18  |  |
| Odisha    | Angul              | 2015-16  |  |
|           | Balasore           | 2015-16  |  |
|           | Bargarh            | 2015-16  |  |
|           | Balangir           | 2015-16  |  |
|           | Boudh              | 2015-16  |  |
|           | Cuttack            | 2015-16  |  |
|           | Deogarh            | 2015-16  |  |
|           | Dhenkanal          | 2015-16  |  |
|           | Gajapati           | 2015-16  |  |
|           |                    |  |  |
|           | Ganjam             | 2015-16  |  |
|           | Jajpur             | 2015-16  |  |
|           | Jharsuguda         | 2015-16  |  |
|           | Kalahandi          | 2015-16  |  |
|           | Kandhamal          | 2015-16  |  |
|           | Keonjhar           | 2015-16  |  |
|           | Khordha            | 2015-16  |  |
|           | Koraput            | 2015-16  |  |
|           | Mayurbhanj         | 2015-16  |  |
|           | Nuapada            | 2015-16  |  |
|           | Nabarangpur        | 2015-16  |  |
|           | Nayagarh           | 2015-16  |  |
|           | Puri               | 2015-16  |  |
|           | Rayagada           | 2015-16  |  |
|           | Sambalpur          | 2015-16  |  |
|           | Subarnapur         | 2015-16  |  |
|           | Sundargarh         | 2015-16  |  |
|           | Bhadrak            | 2015-16  |  |
| Rajasthan | Ajmer              | 2012-13, 2013-14, 2015-16, 2016-17                                       |  |
| ,         | Alwar .            | 2013-14  |  |
|           | Banswada<br>Barmer | 2012-13, 2013-14, 2015-16<br>2012-13, 2013-14, 2015-16, 2016-17, 2017-18 |  |
|           | Bara               | 2013-14  |  |
|           | Bikaner            | 2012-13, 2013-14, 2017-18  |  |
|           | Churu              | 2012-13, 2013-14, 2015-16, 2016-17, 2017-18                              |  |
|           | Dungarpur          | 2013-14, 2015-16, 2017-18  |  |
|           | Jodhpur<br>Sirohi  | 2012-13, 2013-14, 2015-16, 2016-17, 2017-18<br>2013-14                   |  |

| I             |                         | 2013-14, 2015-16                            |  |
|---------------|-------------------------|---|--|
|               | Pratapgarh<br>Kota      | 2013-14                                     |  |
|               | Jaisalmer               | 2012-13, 2013-14, 2015-16, 2016-17, 2017-18 |  |
| -             | Jhalawad                | 2013-14, 2016-17                            |  |
|               | Nagaur                  | 2012-13, 2013-14, 2015-16, 2016-17, 2017-18 |  |
|               | Pali                    | 2012-13, 2013-14, 2015-16, 2016-17          |  |
|               | Bundi                   | 2013-14                                     |  |
| -             | Bharatpur               | 2013-14                                     |  |
| -             | Bhilwada                | 2013-14, 2015-16, 2016-17, 2017-18          |  |
|               | Baran                   | 2013-14, 2015-16                            |  |
|               | Chittorgarh             | 2013-14, 2015-16, 2016-17                   |  |
|               | Dausa                   | 2013-14                                     |  |
|               | Sriganganagar           | 2013-14                                     |  |
|               | Hanumangarh             | 2013-14, 2015-16, 2017-18                   |  |
|               | Jaipur                  | 2013-14, 2015-16, 2017-18                   |  |
|               | Jhunjhnu                | 2013-14, 2013-16, 2017-18                   |  |
|               | Karauli                 |   |  |
|               | Sawaimadhopur           | 2013-14                                     |  |
|               | 1                       | 2013-14, 2017-18                            |  |
|               | Tonk<br>Sikar           | 2013-14                                     |  |
|               |                         | 2012-13, 2013-14                            |  |
| <u> </u>      | Rajsamand               | 2012-13, 2015-16, 2016-17                   |  |
| _             | Jalor                   | 2015-16, 2016-17                            |  |
|               | Udaipur                 | 2015-16, 2016-17                            |  |
| Tamil Nadu    | Chennai                 | 2016-17                                     |  |
|               | Kancheepuram            | 2012-13, 2016-17                            |  |
|               | Vellore                 | 2012-13, 2016-17                            |  |
|               | Thiruvallur             | 2012-13, 2016-17                            |  |
|               | Salem                   | 2012-13, 2016-17                            |  |
|               | Coimbatore              | 2012-13, 2016-17                            |  |
|               | Viluppuram              | 2012-13, 2016-17                            |  |
|               | Tirunelveli             | 2012-13, 2016-17                            |  |
|               | Madurai,                | 2012-13, 2016-17                            |  |
|               | Tiruchirappalli         | 2012-13, 2016-17                            |  |
|               | Cuddalore               | 2012-13, 2016-17                            |  |
|               | Tiruppur                | 2012-13, 2016-17                            |  |
|               | Tiruvannamalai          | 2012-13, 2016-17                            |  |
|               | Thanjavur               | 2012-13, 2016-17                            |  |
|               | Erode                   | 2012-13, 2016-17                            |  |
|               | Dindigul                | 2012-13, 2016-17                            |  |
|               | Virudhunagar            | 2012-13, 2016-17                            |  |
|               | Krishnagiri             | 2012-13, 2016-17                            |  |
| <u> </u>      | Kanniyakumari           | 2012-13, 2016-17                            |  |
| <u> </u>      | Toothukkudi             | 2012-13, 2016-17                            |  |
| <u> </u>      | Namakkal                | 2012-13, 2016-17                            |  |
| <u> </u>      | Pudukkottai             | 2012-13, 2016-17                            |  |
|               | Nagapattinam            | 2012-13, 2016-17                            |  |
|               | Dharmpuri               | 2012-13, 2016-17                            |  |
|               | Sivaganga               | 2012-13, 2016-17                            |  |
|               | Ramanathapuram          | 2012-13, 2016-17                            |  |
|               | Thiruvarur              | 2012-13, 2016-17                            |  |
|               | Theni                   | 2012-13, 2016-17                            |  |
|               | Karur                   | 2012-13, 2016-17                            |  |
|               | Ariyalur                | 2012-13, 2016-17                            |  |
|               | 3                       |   |  |
|               | The Nilgiris Perambalur | 2012-13, 2016-17                            |  |
| Uttar Pradesh |                         | 2012-13, 2016-17                            |  |
| Ottar Fradesh | Alicarb                 | 2014-15, 2015-16                            |  |
|               | Aligarh                 | 2014-15                                     |  |

| Amaraha              | 2014 15          |         |
|----------------------|------------------|---------|
| Amroha               | 2014-15          |         |
| Amethi               | 2014-15, 2015-16 |         |
| Auraiya              | 2014-15, 2015-16 |         |
| Azamgarh             | 2014-15          |         |
| Badaun               | 2014-15          |         |
| Bareilly             | 2014-15          |         |
| Bulandshahar         | 2014-15          | 2015.17 |
| Chitrkoot            | 2014-15, 2015-16 | 2015-16 |
| Deoria               | 2014-15, 2015-16 |         |
| Etah                 | 2014-15, 2015-16 |         |
| Etawah               | 2014-15, 2015-16 |         |
| Faizabad             | 2014-15, 2015-16 |         |
| Farukkhabad          | 2014-15, 2015-16 |         |
| Fatehpur             | 2014-15, 2015-16 |         |
| Firozabad            | 2014-15          |         |
| Gautambudh Nagar     | 2014-15          |         |
| Ghaziabad            | 2014-15, 2015-16 |         |
| Hamirpur             | 2014-15, 2015-16 | 2015-16 |
| Hapur                | 2014-15          |         |
| Hardoi               | 2014-15          |         |
| Jhansi               | 2014-15, 2015-16 | 2015-16 |
| Jaunpur              | 2014-15, 2015-16 |         |
| Kanpur Dehat         | 2014-15, 2015-16 |         |
| Kanpur Nagar         | 2014-15, 2015-16 | 2015-16 |
| Kannauj              | 2014-15, 2015-16 |         |
| Kaushambi            | 2014-15, 2015-16 |         |
| Kushinagar           | 2014-15, 2015-16 |         |
| Maharajganj          | 2014-15, 2015-16 |         |
| Mau                  | 2014-15, 2015-16 |         |
| Meerut               | 2014-15          |         |
| Mainpuri             | 2014-15, 2015-16 |         |
| Mahoba               | 2014-15, 2015-16 | 2015-16 |
| Mathura              | 2014-15          | 2015-10 |
| Muzaffarnagar        | 2014-15          |         |
| Pilibhit             | 2014-15          |         |
|                      | 2014-15, 2015-16 |         |
| Rampur               | 2014-15, 2015-16 |         |
| Saharanpur<br>Shamli | 2014-15          |         |
|                      |                  |         |
| Sonbhadra            | 2014-15, 2015-16 |         |
| Unnao                | 2014-15, 2015-16 |         |
| Shri Ravidas Nagar   | 2015-16          |         |
| Sultanpur            | 2015-16          |         |
| Mirjapur             | 2015-16          |         |
| Ballia               | 2015-16          |         |
| Sidharthnagar        | 2015-16          |         |
| Shahjahanpur         | 2015-16          |         |
| Banda                | 2015-16          | 2015-16 |
| Pratapgarh           | 2015-16          |         |
| Chanauli             | 2015-16          |         |
| Basti                | 2015-16          |         |
| Baghpat              | 2015-16          |         |
| Gonda                | 2015-16          |         |
| Barabanki            | 2015-16          |         |
| Sant Kabi Nagar      | 2015-16          |         |
| Jalaun               | 2015-16          | 2015-16 |
| Gorakhpur            | 2015-16          |         |
| Goraknbur            |                  | •       |

|                     | Allahabad          | 2015-16 |         |
|---------------------|--------------------|---------|---------|
|                     | Lalitpur           | 2015-16 | 2015-16 |
|                     | Lacknow            | 2015-16 |         |
|                     | Rai Bareily        | 2015-16 |         |
|                     | Ambedkar Nagar     | 2015-16 |         |
|                     | Balrampur          | 2015-16 |         |
| Uttarakhand         | <u>Pithoragarh</u> |         | 2015-16 |
|                     | Champawat          |         | 2015-16 |
|                     | Almora             |         | 2015-16 |
|                     | <u>Bageshwar</u>   |         | 2015-16 |
|                     | <u>Nainital</u>    |         | 2015-16 |
|                     | Rudraprayag        |         | 2015-16 |
|                     | Pauri Garhwal      |         | 2015-16 |
| UT of<br>Puducherry | Puducherry         | 2016-17 |         |
|                     | Karaikal           | 2016-17 |         |

#### **Crop Weather Watch Group for Drought Management (CWWGDM)**

The CWWGDM, in the DAC&FW, can act as an Inter-Ministerial mechanism, which should meet at least once a week during June to September period to monitor drought situation in the country. The composition of the Group and the specific areas of responsibility are given in Table 2.1 below.

| Partners   | Tasks   |
|--|---|
| Additional Secretary, Department of Agriculture, Cooperation &     | Chairperson   |
| Farmers Welfare & Central Drought Relief Commissioner              |   |
| Economics & Statistical Advisor, DAC&FW                            | Report behaviour of agro-climatic and market indicators       |
| Agriculture Commissioner   | Crop conditions: Availability of Inputs; Contingency Planning |
| Animal Husbandry Commissioner                                      | Livestock health; Fodder availability                         |
| India Meteorological Department                                    | Rainfall forecast and monsoon conditions.                     |
| Central Water Commission & Central Ground Water Board              | Monitoring data on Important reservoirs / groundwater.        |
| Ministry of Power  | Availability of power   |
| Indian Council of Agricultural Research (Crop Specific Research    | Technical input and contingency planning                      |
| Institutes, Central Research Institute for Dryland Agriculture,    |   |
| Central Arid Zone Research Institute, Indian Agricultural Research |   |
| Institute etc.)  |   |
| Remote Sensing Centres   | Provide satellite based inputs                                |
| Mahalanobis National Crop Forecast Centre                          | Agricultural Drought Information                              |
| Indian Space Research Organisation                                 | Technical inputs on drought parameters                        |
| Joint Secretary, Drought Management, DAC & FW                      | Coordinater   |

The CWWGDM will be responsible for the evaluation of multi-source information and data from scientific and technical bodies to determine the likely impact of meteorological and other environmental parameters on agriculture.