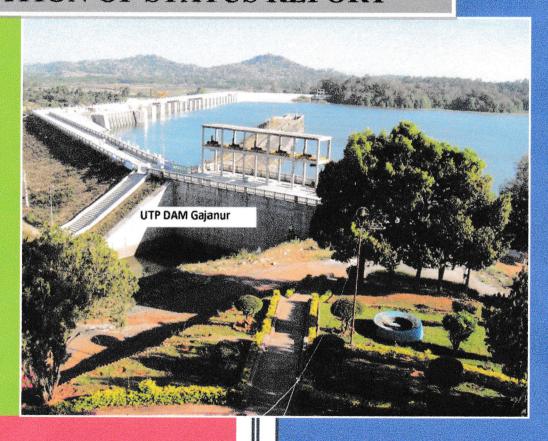




**GUIDELINES FOR** 

# MONITORING OF IRRIGATION PROJECTS AND

# PREPARATION OF STATUS REPORT



**JULY 2017** 

#### PREFACE

Much emphasis has been laid on the creation of irrigation infrastructure during the last sixty years of planning. The irrigation potential created, which was 22.6 mha at the beginning of first Five Year Plan, gradually increased to 113.8 mha at the beginning of twelfth Five Year Plan. This has played a vital role in providing food to the large burgeoning population. Much of this increase is attributed to the construction of Major and Medium irrigation projects in the country. Monitoring of irrigation projects thus assumes a vital dimension for the proper development of irrigation infrastructure.



The Ministry of water resources had launched the AIBP (Accelerated Irrigation Benefits Programme) in 1996-97 in order to expedite the completion of irrigation projects which are in advanced stage of construction and can be completed in a span of 4 years with priority being given to projects started before 7<sup>th</sup> Five Year Plan. The Ministry has also been running a programme namely Command Area Development since 1974-75, which was later renamed as Command Area Development and Water Management (CADWM) programme. Whereas the AIBP was meant for creation of additional irrigation potential, the CADWM programme was aimed at full utilization of the created irrigation potential.

Before the advent of 12<sup>th</sup> Five Year Plan, AIBP and CADWM programme were being executed separately. As a result of this, the irrigation potential created was not being utilized fully. In order to fully utilize the irrigation potential created, need was felt for executing the AIBP programme pari passu with the CADWM programme. With the two programmes, now to be executed pari passu with each other, a need was felt to carry out a combined monitoring of the two components namely AIBP and CADWM of irrigation project in one go.

It is in light of this need that a revised guideline for monitoring of irrigation projects including both AIBP and CADWM components in one go is being brought out. I would like to thank the officers and staff of the Project Monitoring Organisation (PMO) of Central Water Commission specially Shri Sanjiv Aggarwal, Chief Engineer (PMO), Shri P.S. Kutiyal, Director Monitoring(North) and Shri S.K. Rajan, Director, Planning & Progress Dte., CWC for their valuable contribution in bringing out this guidelines.

I hope the field units of CWC will be very much benefitted by the revised guidelines.

(Narendra Kumar) Chairman,

Central Water Commission

New Delhi

July, 2017

#### **FOREWORD**

The development of irrigation has been receiving high priority in the overall planning in the country and considerable public investments have been made in this sector through successive Five Year Plans and are still being made. However, the continuous shortfall in achievement of the targeted irrigation potential from the projects had been a matter of concern to the erstwhile Planning



commission now NITI Aayog and Ministry of Water Resources, River Development & Ganga Rejuvenation, Government of India. With each passing Plans more and more MMI projects are languishing and the problem of time & cost overrun has also become endemic. In order to keep a close watch on project implementation and to complete them in a time bound manner need for effective monitoring was realized.

A three tier monitoring of Major and Medium Irrigation Projects i.e. at Project, State and Central levels was recommended during the first and second State Irrigation Minister's Conference held in 1975 and 1976. At Central level, this work was entrusted to Central Water Commission.

To being with, monitoring of 25 selected projects was taken up in 1977 and gradually this number was increased. Later, the scope of monitoring was enlarged. Project Monitoring Organization of Central Water Commission evolved the guidelines for monitoring of the Major and Medium Irrigation Projects during the year 1989. The monitoring guidelines were again revised in 1995 based on the experiences of the filed units of CWC.

As a number of Major & Medium Irrigation Projects started during various Plans were languishing for want of funds, the Accelerated Irrigation benefits Programme (AIBP) was launched in 1995-96 in which projects which were in advanced stages of completion and likely to be completed in a span of 4 years, were included. Priority was given to projects started before Seventh Plan.

The Field Units of CWC were also given the task of monitoring of AIBP projects in addition to HQ. Since the 12th FYP, it was decided that the Command Area Development & Water Management (CADWM) component of the project may be executed pari-passu with AIBP. Earlier the AIBP and CAWM projects were being monitored separately through field visits and also there were no set guidelines for monitoring of CADWM projects. However, now as the two programmes are to be carried out pari-passu with each other, both AIBP and CADWM components are proposed to be monitored in a single visit of the project. With the advancement of technology and increased availability of high resolution satellite imageries, the Guidelines also advocate the use of this technology in effective monitoring of the MMI projects.

Accordingly, the present monitoring report guidelines have been revised and updated. The great effort put in by Shri Sanjiv Aggarwal, Chief Engineer, Project Monitoring Organization, Central Water Commission and his team of officers needs to be gratefully acknowledged. I hope that the Revised Guidelines would be of great help to the Field Units of CWC in preparing monitoring reports of the 99 priority projects under PMKSY.

New Delhi July, 2017 (S. Masood Husain) Member (WP&P)

# **ABBREVIATIONS**

SL. NO.	TERM	FULL FORM
1.	AIBP	ACCELERATED IRRIGATION BENEFITS PROGRAMME
2.	CADWM	COMMAND AREA DEVELOPMENT & WATER MANAGEMENT
3.	MIS	MANAGEMENT INFORMATION SYSTEM
4.	EMP	ENVIRONMENTAL MANAGEMENT PLAN
5.	R&R	REHABILITATION & RESETTLEMENT
6.	mha	MILLION HECTARE
7.	MMI	MAJOR & MEDIUM IRRIGATION
8.	FYP	FIVE YEAR PLAN
9.	CAD	COMMAND AREA DEVELOPMENT
10.	WUA	WATER USER ASSOCIATION
11.	CA	CENTRAL ASSISTANCE
12.	TCum	THOUSAND CUBIC METER
13.	Km.	KILOMETERS
14.	Nos.	NUMBERS
15.	L-Section	LONGITUDINAL SECTION
16.	LEC	LATEST ESTIMATED COST
17.	Rs	RUPEES
18.	UIP	ULTIMATE IRRIGATION POTENTIAL
19.	IP	IRRIGATION POTENTIAL
20.	IPC	IRRIGATION POTENTIAL CREATED
21.	IPU	IRRIGATION POTENTIAL UTILIZED
22.	На.	HECTARE
23.	MT	MILLION TONNE
24.	CCA	CULTURABLE COMMAND AREA
25.	ICA	IRRIGABLE COMMAND AREA
26.	LOC	LETTER OF CREDIT
27.	QPR	QUARTERLY PROGRESS REPORT
28.	GCA	GROSS COMMAND AREA
29.	FRL	FULL RESERVOIR LEVEL
30.	F.Y.	FOR YEAR
31.	DPR	DETAILED PROJECT REPORT
32.	m	METRE

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# GUIDELINES FOR MONITORING OF IRRIGATION PROJECTS AND PREPARATION OF STATUS REPORTS

#### 1.0 GENERAL

- 1.1 The irrigation development in the country received high priority in the successive Plan periods and a number of major and medium irrigation projects were taken up consuming bulk of the investments under public sector. However, the benefits derived from these projects had been short of expectations. This matter was continuously causing concern to the planners and the Government of India. In order to improve the implementational frame work, to keep a close watch on the progress of the irrigation projects, to complete them in a time bound manner and to achieve the planned benefits, the need for continous monitoring was realized. Subsequently, during the first and second irrigation Minister's Conference held in 1975 and 1976, it was recommended to enforce a three-tier setup for monitoring of the irrigation projects i.e. at Project, State and Central levels. At Central level this task was entrusted to Central Water Commission.
- 1.2 The main objective of monitoring is to periodically review the progress of the project, identify the reasons for shortfall, if any, and to suggest and assist in taking remedial measures. Monitoring is considerd to be a management tool to ensure timely completion of the project. Thus, apart from bringing out project specific difficulties, it also needs to bring out any changes in organizational procedures etc. necessary for smoother management of the project. In nut-shell, monitoring of a project is a systematic effort to:
  - Set performance standards;
  - Ensure implementation of the construction programme;
  - Review the organizational and management capabilities of the project organization and procedural difficulties being faced by them;
  - Compare actual physical and financial achievements with the set targets;
  - Identify deviations, shortfalls, lagging areas etc. occurred and anticipated alongwith their
    effect on the overall implementation programme and inter- related activities and analyse their
    causes;
  - Suggest corrective measures for overcoming the bottlenecks/ problems;
  - Review the project, suggest modification in the implementation procedures, progamme and targets; and
  - Compile the information on the physical and financial status.
- 1.3 The Command Area Development (CAD) Programme was started as a Centrally Sponsored Scheme in the year 1974-75. The objective of the scheme was to bridge the gap between irrigation potential created and that utilized through micro level infrastructure development for efficient water management and enhancement of agricultural production and productivity so as to improve socioeconomic condition of the farmers. The scheme was restructured and renamed as Command Area Development and Water Management (CAD&WM) w.e.f. 1-4-2004 and was under implementation as

a State Sector Scheme during the XI Five Year Plan (2007-08 to 2011-12). Govt. of India launched the Accelerated Irrigation Benefits Programme (AIBP) during 1996-97. The programme has undergone a number of modifications since its inception. As per the revised guidelines of AIBP for the 12th five-year plan issued in 2013 the construction planning of the projects would be such that the AIBP works for creation of irrigation potential and the Command Area Development (CAD) works for utilization of irrigation potential are taken up simultaneously in case of new projects. However, in case of projects already included in AIBP prior to April 2013 and receiving central assistance shall be governed as following:

- a) If CAD works are already taken up, then construction planning for CAD works to be reviewed and modified by project authorities such that CAD works are completed within six months to one year of the completion of works under AIBP.
- b) If CAD works are not started, then, taking up the CAD works with the target to complete parripassu (with a maximum of one year relaxation) so as to complete with the works under AIBP.
- c) A project will be treated as 'completed' only when the corresponding CADWM works, Environmental Management Programme (EMP) and the R&R works are completed.

#### 2.0 MONITORING

It is necessary that the entire project is monitored covering both AIBP and CAD components, as a combined exercise, so as to ensure utilization of the irrigation potential created. The entire monitoring exercise shall normally comprise of three stages: (i) Desk-top monitoring, (ii) Satellite based monitoring, and (iii) Physical monitoring.

#### 2.1 **Desk-top Monitoring**

The "Desk-top monitoring" exercise shall be carried out project-wise at the CWC regional offices through review of all project related information, progress review through MIS, compliance review of audits/ site-visit reports, and inviting concerned Project officers at the beginning of the financial year, to meet the following objectives:

- To have an overall assessment of construction planning of the project including CADWM, EMP and R&R till completion;
- To make effort for a realistic assessment of the progress of the works made during the previous financial year, shortfall in the utilization of AIBP/CADWM as well as state share fund, and identification of bottlenecks faced in the general progress of work;
- To identify critical issues needing special attention e.g. EMP, R&R, land acquisition, capacity related issues of Project Implementing Agency, State budget allocations, status of design &drawings, tender related issues, material and machinery mobilization, handing over of site to contractor, delays in contractor's bill settlement/ advance release, coordination issues between different contractors, construction plan for the current financial year vis-a vis overall planning till completion, inter-departmental liason, WUAformation, identification of agencies for capacity building of WUAs, agereement

- with WUAs on layout of field channels, release of grants to WUAs, taking over of control and management of irrigation system by WUAs.
- To render suitable advice to the State Governments on preparation of the CA proposals
  as per the guidelines/ check list so as to avoid undue delay in processing of the
  proposals.
- To prepare the 'joint proposals' for release of first installment of CA in order & in time for both AIBP and CADWM components, so as to enable State Govt. to place its demand for second installment in the same financial year.
- To ensure updated entries of Physical and Financial Status of projects in the MIS of both AIBP and CADWM on a regular basis.
- To assess execution status of each intervention targeted under AIBP and CADWM component.

#### 2.2 Satellite Based Monitoring

Carry out a "Satellite Based Monitoring" exercise at the CWC HQ, regional offices, concerned Project offices orany other institute/organization assigned with the task to meet the following objectives:

- To digitize the completed components of the project canal network and Irrigation Infrastructures for visualization of the extent and size of the project.
- To compare scope of the project with the actual progress thus digitized and help in the decision making process.
- To know the actual size of balance works and actual pace of construction of the project, gaps, and major bottlenecks, so as to rationally understand the impediments, risks and issues likely during the implementation for completion of the Project.
- To identify the critical areas/places of bottlenecks thus to reduce the numbers of site visits limiting to focus areas identified in advance for finding answers of some of the queries/doubts.
- For reliable record generation of the asset created and online transmissibility.
- To generate minor-wise/ outlet-wise digitized data to assess the status of potential utilization.

#### 2.3 Physical Monitoring

The physical monitoring shall be carried out by the regional offices of CWC by way of minimum of two field visits per project per year, and any additional visit as per the direction issued from time to time. The physical monitoring of the project will involve following steps:

- Preliminary preparation
- Field visit and discussion with WUAs.
- Collection of information/ data and review of the status of the project
- Wrap up meeting with project Authorities
- Preparation of status Report
- Follow up of the action points

- 2.3.1 **Preliminary Preparations**: A programme for monitoring visit may be drawn and communicated to the Project Authorities. They may also be requested to compile the information in the prescribed formats and make available the same to the monitoring team immediately after reaching the project site.
- 2.3.2 **Field Visit**: During field visit, efforts should be made to physically inspect all the work in progress in the project. However, if it is not possible to inspect all the work due to certain limitations, atleast the major and critical works must be inspected. Discussions may also be held with the contractors at site as regardst to the progress of their works vis-a-vis the agreed programme, and the bottlenecks being encountered. Photographs of the project components/ site (with geo-tagging) and the details of officials and other persons who were interacted during visit shall be taken and reproduced in the report with appropriate refrencing.
- 2.3.3 Collection of Information/ Data and Review of the Status of Project: All the relevant information/ data may be collected during discussion with project Engineers in the field and from records available in the project offices. Based upon this, the status of the project may be reviewed and the critical issues may be identified for further clarification/ discussion with project Authorities.
- 2.3.4 **Wrap-up Meeting with Project Authorities**: The physical and financial progress of the project and the critical issues may be discussed in the wrap- up Meeting with the project Authorities and Action Points may be identified for follow-up action by the concerned agencies.
- 2.3.5 **Preparation of Status Report**: The status report of the project shall be compiled for each field visit incorporating therein also the observations and recommendations on issues of progress and quality of various interventions. The status report shall be prepared within a month of the date of visit, and submitted to the State Government, PMO (CWC), State Projects (SPR) Wing (MoWR, RD & GR) and CADWM Wing (MoWR, RD & GR). The soft copy of the report shall also be uploaded on the MIS portal. The critical issues requiring immediate attention of the State Government may be communicated separately through a letter from Chief Engineer (CWC) concerned to the Secretary of the State Government with a copy to all concerned.
- 2.3.6 **Follow-up of Action Points**: The action points incorporated in the Status Report may be followed up till its logical conclusion. Project Authorities may be advised to indicate the status of the action points in their quarterly progress reports. Pendency of any follow-up action on the part of State government shall also be reflected in the subsequent monitoring reports of CWC.

#### 3.0 FORMAT OF STATUS REPORT

3.1 The status report is expected to provide information in a structured way, and a standardized format will facilitate this intent. Besides the title page, the report shall also provide a reference page providing therein the details of previous and current field visits (see Reference Sheet) and an Executive Summary, before the main body of report.

- 3.2 The report shall be numbered in a manner to indicate its unique reference as per register maintained by the report issuing office. The report number along with date of issue of the report shall be displayed on the title page of the status report. The report number and the date of issue of report shall facilitate the archieving and retrival of reports on the MIS portal.
- 3.2 The report shall be divided in approriate sections and sub-sections as summarized below:
  - Section-I: Executive Summary
  - Section-II: Status of AIBP Components
  - Section-III: Status of CADWM Components
  - Section-IV: Summary of Actionable Points
- 3.3 The quantitative status of AIBP and CADWM components shall be detailed in tabular form and its overall status analysed and narrated with proper referencing of Tables. Suitable number of bar charts, pie diagrams, etc shall also be provided for highlighting the key findings of the analysis. The qualitative comments shall be supported by project photographs and other supporting documents placed appropriately with proper referencing.

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#### **REFERENCE SHEET**

I. A chronicle indicating the dates of **past monitoring visits** made and status report issued since inclusion of the project under AIBP may be given as under:

Sl No.	Date of previous visits	Report Number	Date of issue of the report
1			
2			

II. Details of **present visit** including dates of visits, Central & State Govt. Officers participating in the visit, and their designation and mobile numbers may be given as under:

Sl. No.	Date of	Name of Central & State	Designation	Mobile No.
	visits	Govt. Officers Participating		
1				
2				

III. Details of places, project components, irrigation structures & activity visited may be given date-wise as under:

Sl. No.	Date of visit	Location	Component (AIBP/ CADWM)	Structures/Activity covered
1				
2				

IV. Checklist for status of outlets: A checklist for status of outlets, at least 10% of the total outlets completed will be required to be attached with the monitoring report based on the visit made.

#### **EXECUTIVE SUMMARY**

A brief summary of Project preferably not more than 2- 3 pages comprising of following information may be given under first section of the Status Report:

	PROJECT FEATURES		
	Location, components, benefits, estimated cost, year of approval, inter- state		
Sub-section 1:	aspects (if any), year of start, targeted date of completion, external source of		
	funding (if any).		
	ORGANISATIONAL & MANAGEMENT ASPECTS		
Sub-section 2:	Adequacy of organisatioal set- up vis- a- vis physical & financial		
Sub-section 2.	programme.		
	PROGRESS OF AIBP COMPONENT		
	PHYSICAL: Percentage completion of various components of the project		
Sub-section 3:	and achievement of potential created.		
Sub-section 3.			
	<b>FINANCIAL:</b> Latest expenditure details, outlays for the current plan/year.		
	PROGRESS OF CADWM COMPONENT		
	<b>PHYSICAL:</b> Percentage completion of various components of the project		
Sub-section 4:	and achievement of potential utilizable.		
Suo section 4.			
	<b>FINANCIAL:</b> Latest expenditure details, outlays for the current plan/year.		
	ISSUES IN FOCUS		
Sub-section 5:	Only critical issues needing immediate attention of the Government/ Project		
	Authorities.		
Sub-section 6:	OVERALL ASSESSMENT REGARDING PROJECT		
230 200000	COMPLETION		

#### **STATUS OF AIBP COMPONENTS**

	PROJECT COMPONENTS AS BEING EXECUTED
Sub-section 1	Describe here the project location, its scope, benefits and componets as being executed. Salient features of the project may be given at Annexure I.
Sub-section 2	CHANGES IN SCOPE, IF ANY Changes in the scope of the project, if any, as approved and as being executed may be indicated.
Sub-section 3	ORGANISATIONAL SET UP FOR THE PROJECT  (a) State the organizational set up for the project vis-a-vis physical & financial programme and comment on its adequacy. Design back up, coordination between the various units of the projects, procedural difficulties, etc. may also be given.  (b) Comment upon the functioning of inter-departmental committees for various purposes such as land aquisition, environmental management, posting of staff and review of progress etc. Whether such committees are convening meetings regularly?  (c) Describe if detailed construction drawings are available at site in advance of construction. Describe if these are being prepared by an independent design offices. Indicate if the design office is adequately manned by persons in position. Indicate how many times during the last one year, designers at appropriate level visited the project?
Sub-section 4	CONTRACTUAL ARRANGEMENTS  A brief account of major contracts in the project may be given with action points, in particular, deal with the following:  (a) What is the current delegation of powers as regard to award of work for civil contracts through competitive bidding? Is this adequate? Suggest changes, if considerd necessary.  (b) Is there any special procedure for dealing with claims from contractors for extra-items, etc. expeditiously? Is this working satisfactory?  (c) What is the arbitration procedure?  (d) Are large numbers of arbitration cases coming up? Analyse reasons and suggest measures.  (e) Whether numbers of cases are going to the court inspite of the arbitration?

Sub-section 5	Give in brief the schedule of various components to be executed with mile-stone/bar chart, suggestions for improvement and optimization with critical comments regarding completion of the project as scheduled, etc.
Sub-section 6	<ul> <li>QUALITY ASSESSMENT <ul> <li>(a) Describe briefly Quality Control Organisation of the project. Also state whether this organization is independent of construction wing.</li> <li>(b) The places where field laboratories are stationed alongwith the facilities therein.</li> <li>(c) Quality control manual followed by the project Authorities.</li> <li>(d) Whether proper records regarding quality tests are maintained? What actions are being taken on the quality test results?</li> <li>(e) Give a brief account of services being taken from any material research institute i.e. CSMRS for ensuring proper quality of work.</li> <li>(f) Comment on quality of works completed and of those under execution.</li> </ul> </li> </ul>
Sub-section 7	LAND ACQUISTION, REHABILITATION & RESETTLEMENT  Describe in detail the progress on land acquisition for the project works and rehabilitation of the oustees. Also comment on the adequacy of land acquisition process in the project & suggest measures to expedite the same and comment on the following:  - Is a land acquisition officer available specifically for the Project Organisation?  - Is the project following a procedure of consent awards?  - Are there a large number of court cases hampering land acquisition?  - Status of land acquisition cases may be given in ANNEXURE II (A).  - Describe in brief the approved R&R policy of the State/ Project and the status of its implementation in the project.  (Details may be given at ANNEXURE-II (A)
Sub-section 8	ENVIRONMENTAL AND FOREST CLEARANCE  Briefly describe the following:  (a) Whether the project has been cleared from the environmental angle, if not what action has been taken to get it cleared?  (b) If cleared subject to conditions, briefly give the conditions laid down by the Deptt. of Environment and Forest & action taken to fulfill these.  (c) Whether environmental action plan has been formulated by State? If so, details thereof with index plan and its estimated cost?  (d) If Project/State level multi-disciplinary Environmental Management Committee has been constituted for the project, if yes give its

	composition?  (e) How many times these committees have met during the last one year? Are the minutes of the State Level Environmental Management Committee sent to the Environmental Management Organisation of CWC?  (Details may be given at ANNEXURE-II(B)).
	TECHNO – ECONOMIC APPRAISAL
Sub-section 9	<ul> <li>(a) Date (s) of approval and cost (s).</li> <li>(b) Further revision, if any and status of revisd estimate / report.</li> <li>(c) Present position of examination.</li> </ul>
	EXTERNAL ASSISTANCE
Sub-section 10	<ul> <li>(a) Value of agreement, effective dates of beginning &amp; closing of assistance.</li> <li>(b) Components of the project covered under the assistance.</li> <li>(c) Actual expenditure and reimbursement. Reasons of shortfall, if any.(ANNEXURE-III (A))</li> <li>(d) Points needing attention at the Govt. level. Reimbursement and expenditure schedule, observations of lending agency and their status may be given in ANNEXURE-III (B).</li> </ul>
Sub-section 11	ESTIMATED COST  Following information may be given under this:-  (a) Originally estimated cost and revisions, if any, approved by the NITI Aayog, the erstwhile Planning Commission.  (b) Approved cost of AIBP components  (c) Latest estimated cost of the Project as a whole  (d) Latest estimated cost of AIBP components.  (e) Reasons for increase in the cost, if any. Break up of increase due to each reason.  (f) Cost of balance works.
Sub-section 12	PHYSICAL PROGRAMME & PROGRESS OF THE WHOLE PROJECT The detailed progress of various components information may be given in the table given below:

Sl. No.	Item	Unit	Total estim ated Qty.	Progress up to last year	Programme for the current year	Achievement during the year to the end of	Likely date of completi on
1	2	3	4	5	6	7	8
A	HEAD WORKS						
	<b>Dam / barrage</b> Earthwork						
	(i) Excavation	Tcum					
	(ii) Embankment	Tcum					
	Masonary	Tcum					
	Concrete	Tcum					
	Gates	Nos.					
В	MAIN CANALS						
	Earthwork	Tcum/ Km.					
	Lining	Tcum/ Km					
	Structures	Nos.					
С	BRANCH CANALS						
	Earthwork	Tcum/ Km.					
	Lining	Tcum/ Km					
	Structures	Nos.					
D	DISTRIBUTARIES						
	& MINORS						
	Earthwork	Tcum/ Km.					
	Lining	Tcum/ Km					
	Structures	Nos.					
Е	WATER COURSES	Km					

L-Section of the dam and Bar & Dot charts of various canal systems indicating progress and future programme may be attached as Plates.

Also give comment on the following:

- (a) Expected devation in completion schedule of any major components of the project or the project as a whole.
- (b) The measures taken to check the delay and their probable effect on construction schedule.

	PROJECT COMPONENTS AS BEING EXECUTED UNDER AIBP
	Give a brief account of Project inclusion under AIBP.
	1. Approved estimated cost (LEC) of AIBP components
	2. Present Latest Cost of AIBP :
	<b>3.</b> CA Released (Year-wise break up):
	4. Total expenditure incurred as on Date/ under AIBP component
	(Rs in Crores upto):
	5. Balance cost (in Rs Crores):
	a. Central Share (%):
Sub-section 13	b. State Share (%):
	<b>6.</b> CCA (under AIBP) in th.ha.
	7. UIP (under AIBP) in th.ha.
	<b>8.</b> Rabi (%):
	<b>9.</b> Kharif (%):
	<b>10.</b> Hot Weather (%)
	11. Perennial (%)
	12. IP Created (AIBP) in Ha.
	13. IP Utilised(AIBP) in Ha.

Physical progress under AIBP with % achievement under each component, % weighted head-wise achievement and % achievement of project as a whole is to be given as under indicating progress as on quarter ending .......

					I. AIBP					
Sl.	Component	Unit				Ph	ysical			
No.			Latest Estimate d Quantity	Quantity executed as on	Balance Quantit y	Progres s (in %)	Latest Estimat ed cost (in Cr.)	Weighted Coefficie nt	Weighted Percenta ge Progress	% Progres s overall
1	2	3	4	5	6	7	8	9	10	11
A	Dam & Head Works									
i)	Land acquisition	На.								
ii)	Earthwork	Tcum								
iii)	Masonry Dam	Tcum								
iv)	Spillway Gates	Nos.								
v)	Tail channel	Tcum								
vi)	Irrigation cum Power outlet & service gates	MT								
vii)	Rehabilitation	Nos.								
viii)	Misc.	%								
	Total									1
В	Main Canal & Branch Canal									
i)	Land acquisition	На.								
ii)	Earth Work	Tcum								
III)	Structures	Nos.								
iv)	Lining	Km.								
	Total									
C	Distributaries , Minors & Sub-minors									
i)	Land acquisition	Ha.								
ii)	Earth Work	Tcum								

iii)	Structures	Nos.				
iv)	Lining	Km.				
	Total					
	Grand Total					
D	Other Component if any (please specify)					
E	Irrigation Potential	a) CCA covered				
L		b) IP created				

The latest achievements at each quarter needs to be updated and entered in PMKSY-MIS Portal of MoWR, RD & GR. The latest QPR showing Physical and Financial progress may be attached as ANNEXURE-IV.

	PROJECT POTENTIAL
Sub-section 14	<ul> <li>(a) Ultimate potential of the project, potential created up to last year, programme for current year and achievement.</li> <li>(b) Reasons for lag in potential, if any.</li> <li>(c) Status of utillisation vis-a-vis creation.</li> <li>(d) Statement of distributory-wise ultimate potential and potential created so far may be enclosed as ANNEXURE-V (A).</li> <li>(e) Studies in regard to Assessment of IPC under AIBP is to be carried out using freshly acquired Cartosat/Kompsat satellite data (Orthrectified PAN/processed data hosted in Bhuvan Portal) for the desired time window by deriving/digitiging the irrigation and cross drainage structures and status from it. Based on such inventory in terms of number of canals, their lengths and offtake chainages alongwith hydraulic connectivity depending upon the status, the IPC thus arrived is to be compared with field reported figures of IPC of the project presented in a tabular form given below:</li> </ul>

	ASSESSMENT OF IPC USING REMOTE SENSNING TECHNIQUES THROUGH DIGITIZATION OF CANAL NETWORK AND IRRIGATION INFRASTRUCTURES															
Canal No.	Canal Name	Parent Canal	Cana	take Chaina	Lengt h	Sat Chai nage	Lengt	Length	No of	gres	A		ed	Sat I.P (ha)	Remar ks(IPS at = <pro posed)</pro 	Mo difi
1																
2																

In case of non-availability of relevant imageries and field data on IPC, comparision of the inventories, mentioned above, may be made with the digitized data with the help of the google imageries as available time window for the command, constrains, gaps, selection of sites needing physical monitoring can be figured out.

	FINANCIAL PROGRAMM	IE AND PROGRESS					
	Particulars	Amount (Rs. in Crore)					
Sub-section 15	Year of start Original date of completion Revised date of completion Cumulative expenditure up to end of the last plan Cost of balance works Approved outlay for current plan						
	*The total expenditure and ex	current financial year upto penditure under AIBP may be given separately.					
Sub-section 16	budget grants? (b) Are budget grants as appropriate (c) Does a system of issuing	provided in the annual plans being matched by roved being received in the project well in time? letter of credit exist? If so at what periodicity? Is all budget within the year adjusted to the work					

	(e) After considering the level of financing, the balance cost and the likely
	escalation of cost, what approximate period in your opinion will be required to complete the project?
	(f) Specify if there is any delay in release of CA to the project authorities from State Government.
	MONITODING OF DROJECT AT STATE / DROJECT I EVEL
Sub-section 17	<ul> <li>(a) Whether there is any Monitoring Organisation at State / Project level to monitor the progress. If so, the details of the organizational set up.</li> <li>(b) List of all major structures and Railway /Road/Utility crossing identified for the target proposed during the year and monitored for their achievement.</li> <li>(c) Submission of QPR for physical and financial progress, activation of project level and state level monitoring committee for environment safe guard implementation &amp; quality assurance report issued by State Government to CWC.</li> <li>(d) Incorporation of Paper print of satellite imagery of the project area with the monitoring report and completion report.</li> <li>(e) Details of concurrent evaluation carried out till the date of visit along with the details of report issued and the agency for concurrent evaluation.</li> <li>(f) Reform measures undertaken in the State, if any, alongwith the status of WUA may be given with its present status of implementation.</li> </ul>
Sub-section 18	POINTS NEEDING ATTENTION  1. Discuss in detail the constraints affecting progress of work regarding: (i) Technical inputs. (ii) Land acquisition. (iii) Floating of tenders. (iv) Procurement of scrap materials. (v) Sufficiency of infrastructure including establishment, labour/machinery etc. (vi) Finance.  2. Comment as to whether proposed financial & physical programme can be achieved.  3. Anticipated slippages in financial and physical targets.  4. Suggestions for achieving the set targets.  5. Development of tourism potential in the project and efforts made in this regard.
Sub-section 19	BOTTLENECKS IN IMPLEMENTATION OF PROJECT COMPONE UNDER AIBP.
Sub-section 20	COMPLIANCE REPORT TO CWC OBSERVATIONS CONTAINED
	.

	EARLIER STATUS REPORT. (Annexure VI)
	COMPLIANCE REPORT ON THE SPECIAL CONDITIONS LAID
Sub-section 21	DOWN DURING TAC CLEARANCE AND OTHERS E.G.
	ENVIRONMENT AND FOREST CLEARANCE, ETC. (Annexure VII)
Sub-section 22	GENERAL COMMENTS/OBSERVATIONS.
	I. PROJECT DETAILS WITH SALIENT FEATURES
	II. (A) PROGRESS & PROGRAMME OF R&R
	(B) STATUS OF EMP IMPLEMENTATION.
	III. (A) EXTERNAL ASSISTANCE
	(B) LATEST OBSERVATION OF LENDING AGENCY ON PROJECT
	STATUS
	IV. LATEST QPR SHOWING PHYSICAL & FINANCIAL PROGRESS
ANNEXURES	V.(A) STATEMENT OF DISTRIBUTARY / MINOR-WISE ULTIMATE POTENTIAL, IRRIGATION POTENTIAL CREATED/UTILISED  (B) STATEMENT OF IRRIGATION POTENTIAL CREATION AND UTILIZATION DISTRICT-WISE AND CROP-WISE  (C) STATEMENT OF LAND USE, LAND COVER DISTRICT-WISE AND CROP-WISE  VI. ACTION TAKEN ON OBSERVATION OF PREVIOUS STATUS REPORT OF CWC.  VII. ACTION TAKEN ON SPECIAL CONDITIONS LAID DOWN BY THE ADVISORY COMMITTEE AT THE TIME OF APPRAISAL  VIII. OVERALL STATUS OF IRRIGATION POTENTIAL CREATION AND UTILIZATION IN THE DISTRICT/STATE: ABSTRACT OF
	POTENTIAL CREATION AND UTILIZATION IN THE DISTRICT/STATE AND THAT THROUGH PROJECTS UNDER AIBP AND STATUS OF THE MAINTENANCE FUNDS PROVIDED TO THE PROJECTS.
	L- SECTION OF DAM     BAR & DOT CHARTS INDICATING PROGRAMME OF VARIOUS CANALS ALONGWITH THEIR BRANCHES AND DISTRIBUTION SYSTEM
PLATES	3. MILESTONE PROGRESS CHART FOR VARIOUS PROJECT COMPONENTS 4. INDEX MAP
PHOTOGRAPHS	GEO-TAGGED
THOTOGRATIIS	OLO-TAGOLD

#### **ANNEXURE-I**

#### **PROJECT DETAILS**

- 1. HISTORY OF THE PROJECT.
- 2. PROJECT PROPOSAL.
- 3. GROSS BENEFITS (INDICATING GCA, CCA, AREA IRRIGATED AND CROPPED AREA CANAL–WISE)
- 4. INTER STATE ASPECTS, IF ANY.

#### PROGRESS & PROGRAMME OF REHABILITATION & RESETTLEMENT

	I KOGKESS & I KOGKAMIMI				Progress		
Sl. No	Description		Complete d upto last year	Program me for current year	during current year upto date of visit	Cumu lative progr ess	Remarks
1	2	3	4	5	6	7	8
A.	Submergence Area						
	(Inlcuding seat of dam, colonies etc.)						
	upto						
	F.R.L.						
i)	Forest land						
ii)	Govt. land						
iii)	Other land						
111)							
	Total:						
B.	Population Affected						
i)	Total families affected						
ii)	Total persons affected						
iii)	Scheduled Caste families affected						
iv)	Scheduled Caste persons affected						
v)	Scheduled Tribe families affected						
vi)	Scheudled Tribe persons affected						
VI)	Scheudied Tribe persons affected						
C.	Villages Submerged						
<u> </u>	- magos odomorgou						
i)	Fully						
ii)	Partly						
D.	Land Required for Canal						
		1			I	l	

i)	Forest land			
ii)	Govt. land			
	Total:			
E.	Property Under Submergence			
i)	Kucha houses			
ii)	Pucca houses			
iii)	Govt. buildings			
iv)	Any Archaeological/ Historical places			
,				
v)	Religious places			
vi)	Wells			
vii)	No. of trees etc.			
F.	Reservoir Submergence Plan alongwith year-wise			
	programme			
G.	Rehabilitation/Resettlement			
i)	Details of Act/guidelines followed for R&R Plan			
	2			
ii)	Whether any R&R Plan has been prepared and			
11)	finalised?			
iii)	Land required for rehabilitation including land for			
111)	land compensation			
iv)	Source/location of land required for R&R Plan			
10)	Source/location of fand required for R&R Fian			
)	Details on land concluits concet of the conce			
v)	Details on land capability aspect of the areas identified for resettlement			
vi)	No. of resettlement colonies proposed for			
	rehabilitation			
vii)	Facilities propsed to be provided in these colonies			
(a)	Houses (Facilites provided by Govt. for			
	construction of houses by oustees)			
(b)	Schools			
(c)	Religious places			
(d)	Community Centre/Panchayat Ghar			
(e)	Health Centre			
(f)	Roads			

(g)	Marketing facility				
(h)	Electricity				
(i)	Water Supply				
(j)	Others				
<u> </u>					
viii	Irrigation Facilities for agricultural land				
)	allotted to project oustees under land for				
ĺ	land programme				
ix)	Total estimated cost of rehabilitation and				
	resettlement and land acquisition				
	components alongwith expenditure				
	incurred upto the end of March of the				
	previous year, budget for current year				
	and money spent during the current year				
	upto the date of visit				
x)	Reasons for shortfall and bottlenecks, if				
	any				
I.	Details of Rehabilitation Committee (if				
	<u>any)</u>				
J.	<u>Details of Resettlement</u>				
i)	No. of families/ persons to whom land				
	for land has been allotted				
ii)	No. of persons to whom land has been				
	allotted for house sites				
:::>	No of familias/same at a standard				
iii)	No. of families/persons to whom				
	employment have been given in Govt. Service				
	DCI VICE				
	N. C.				
iv)	No. of persons to whom grant in aid				
	given for self employment				
V	Relocation of Communications				
K.					
(a)	(Reservoir Area) Roads				
(b)	Railways				
(c)	Telegraph lines				
(d)	Transmission lines			1	
(u)	1141151111551011 111105				

# STATUS OF EMP IMPLEMENTATION

				Control States	CONTRACTOR DESCRIPTION	
	YE	AB		QUARTER 1	/11/111/1	V
	1)	Year of start				
	ii)	Expected year	of complet	ion		
		Year/s during		conmental	clearance	VAS
No.as	en(Safeguards stipulated Ministry of r. & Porests)	progress nonitored	1. Ph	l cial	year n- Physi cal.	- Finan- cial.
1	2	3		5		7
			or the Cur	ulative		Renarks
Quarte		current Qua	arter. Pro	gress	next Ort.	
Phy. I	Financial.		ial Phy.	Financia	Phy. Fina	ncial

#### ANNEXURE-III (A)

#### **EXTERNAL ASSISTANCE**

Date of agreement : Credit No. :

Total amount of

Credit

\_\_\_\_\_

Sl. No.	Bank F.Y. & semester/q uarter	Schedu le of disburs ement	Reimburse ment claimed	Reimburse ment received	Reasons for shortfal l if, any	Steps being taken to utilise the credit in full
1	2	3	4	5	6	7

ANNEXURE-III (B)

\_\_\_\_\_\_

LATEST OBSERVATION OF LENDING AGENCY ON PROJECT STATUS

COMPLIANCE BY PROJECT AUTHORITIES

#### ANNEXURE-V (A)

STATEMENT OF DISTRIBUTARY / MINOR-WISE ULTIMATE POTENTIAL, IRRIGATION POTENTIAL CREATED (P)/ UTILISED (U)									
Name of Branch	Distributary/Minor	Offtaking location	Ultimate Potential	end	ated to of last year	Addition during o	current	during year upt	vement current o date of sit
				P	U	P	U	P	U

#### ANNEXURE-V (B)

# STATEMENT OF IRRIGATION POTENTIAL CREATION AND UTILIZATION DISTRICT-WISE AND CROP-WISE

Sl	. District Benefitted	Name of Canal/	Parent	U	IP		IP	С			IPU	
No		Branch/ Dy.	Canal	Kharif	Rabi	Total	Kharif	Rabi	Total	kharif	Rabi	Total
		Minor/ sub-minor										

#### ANNEXURE-V (C)

#### STATEMENT OF LAND USE, LAND COVER DISTRICT-WISE AND CROP-WISE

Sl.	District	Geographical	Area	Net Irrigated		Gross	Area	Net A	Area				
No.	Benefitted	Area	Shown	Area		Area		Area		Irriga	ated	Irrig	ated
								under	this				
								Proj	ject				
				Kharif	Rabi	Kharif	Rabi	Kharif	Rabi				

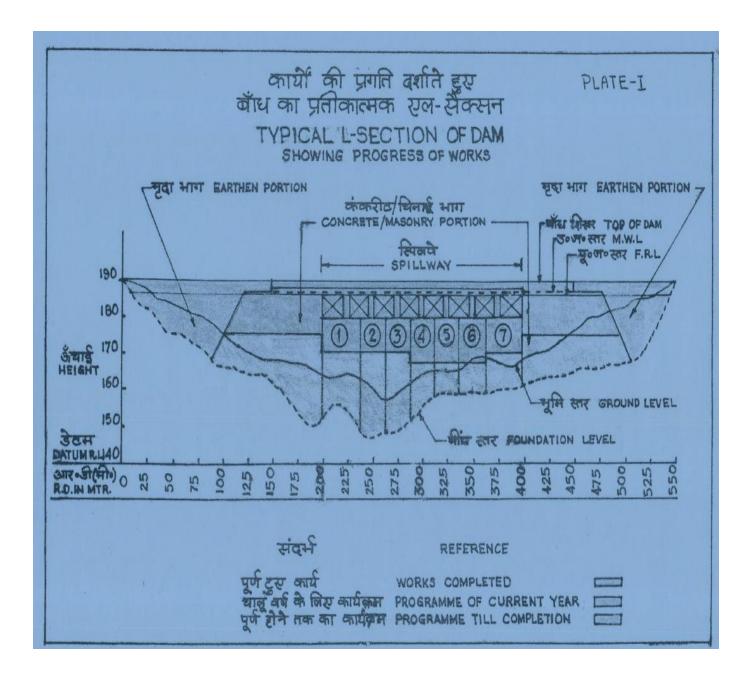
#### **ANNEXURE-VI**

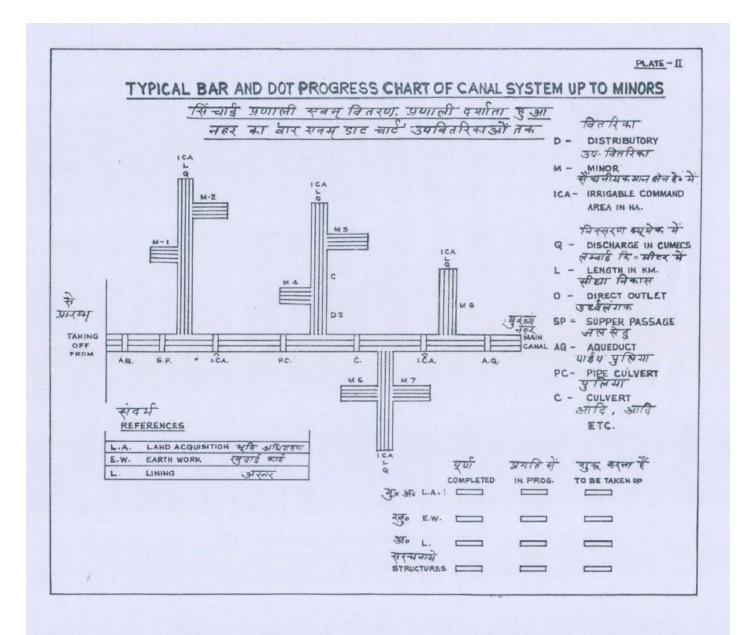
#### ACTION TAKEN ON OBSERVATIONS OF PREVIOUS STATUS REPORT OF CWC

Observations in previous status report of Central	Action taken by Project Authorities
Water Commission	

# ANNEXURE VII ACTION TAKEN ON SPECIAL CONDITIONS LAID DOWN BY THE ADVISORY COMMITTEE AT THE TIME OF APPRAISAL

Action taken by Project Authorities





#### **SECTION-III**

# STATUS OF CADWM COMPONENTS

The status of progress of the CADWM component comprising of following information may be given:

Sub-section 1:	PROJECT SUMMARY
	Brief summary of the activities covered under CADWM. Status of
	appraisal/approval of CAD DPR with relevant orders of inclusion under CADWM.
	Brief description of total CCA of the project, CCA being covered under CADWM
	with component as open field channels, pipes, area covered under micro-irrigation,
	etc. Any other relevant details such as other schemes operating in the command in
	the project supported by other Ministries such as Ministry of Agriculture, Rural
	Development, etc.
Sub-section 2:	STRUCTURAL INTERVENTIONS AS BEING EXECUTED
	Describe here the Survey, Planning and Design, outlet-wise scope and status of
	CADWM structural interventions (e.g. field channel, land leveling, drainage works,
	reclamation of water logged area, correction of system deficiencies, micro-
	irrigation, etc) as being executed. The detailed tabulated information may be given
	as Appendix-D (1).
Sub-section 3:	NON-STRUCTURAL INTERVENTIONS AS BEING EXECUTED
	Describe here the outlet-wise scope and status of CADWM non-structural
	interventions (e.g. creation of WUAs, release of functional and infrastructure grants,
	WUA's capacity building measures, etc) as being executed. Monitoring and
	evaluation, Incentivisation of WUA, other relevant details may also be given. The
	detailed tabulated information may be given as Appendix-D (2).
Sub-section 4:	CHANGES IN SCOPE, IF ANY
	Changes in the scope of the project, if any, as approved and as being executed, may
	be indicated.
G 1 5	
Sub-section 5:	ORGANISATIONAL SET UP FOR THE PROJECT
	State the organizational set up for the project vis-a-vis physical & financial
	programme and comment on its adequacy. Design back-up, coordination between the
	various units of the projects, procedural difficulties, functioning of various
	Committees, etc. may also be given.
	Comment on the agency/ social-facilitator engaged for handholding support to the
	WUAs; and also point out coordination issues, if any.

Comment upon the functioning of different departments involved in activities of convergence; and highlight issues of coordination, if any. Describe if layout drawings are available at site, and if they have been concurred by WUAs/ farmers in advance of construction. Describe the quality control set-up of the department, and comment on the frequency of quality control inspections and its overall effectiveness. The details may be given as Annexure OVERALL ASSESSMENT REGARDING PROJECT COMPLETION Sub-section 6: Sub-section 7: CONTRACTUAL ARRANGEMENTS A brief account of contracts in the project may be given commenting upon the size of contract, qualification criteria deployed, contractors own supervision set-up, deployment of machienery, speed of work, coordination with WUAs, capacity to complete the work in scheduled time. Sub-section 8: CONSTRUCTION PLANNING & SCHEDULING Give in brief the schedule of various structural components to be executed with milestone/bar chart, etc. Comment on the readiness and scheduling of non-structural intervention matching with the pace of structural intervention. Sub-section 9: PROGRESS OF STRUCTURAL INTERVENTIONS Describe here the outlet-wise progress of CADWM structural interventions (e.g. field channel, land leveling, drainage works, reclamation of water logged area, micro-irrigation, etc.) and the extent of CCA ready for utilization. The detailed tabulated information may be given as Appendix-D (3). Sub-section 10: **QUALITY ASSESSMENT** Comment on quality of structural works completed and of those under execution. Comment on the extent of channel network and channelized flow of water to every farm field; and the extent of lining of field channel. Highlight issue of faulty planning, if any. Also comment on the absence of control and measuring devices and suggest most practicable measures.

Sub-section 11:	PROGRESSS OF NON-STRUCTURAL INTERVENTIONS
	Describe here the outlet-wise progress of CADWM non-structural interventions
	(e.g. creation of WUAs, release of functional and infrastructure grants, WUA's
	capacity building measures, etc.), the extent of irrigation system taken over by
	WUAs, and readiness of WUAs for taking over of the irrigation system. The
	detailed tabulated information may be given as Appendix-D (4).
Sub-section 12:	FINANCIAL PROGRAMME AND PROGRESS
	Describe here the program and progess of expenditure for both structural and non-
	structual interventions. Also identify any specific issue which is hampering the
	financial progress, and point-out mismatch, if any, with the physical progress.
Sub-section 13:	POINTS NEEDING ATTENTION
	Bringout any other issue of importance not covered under above sub-sections; or
	issue requiring prior attention.
Sub-section 14:	BOTTLENECKS
	Identify major bottlenecks hampering, or anticipated to hamper, the porgess or
	successful operation of the project.
Sub-section 15:	COMPLIANCE OF OBSERVATIONS OF EARLIER STATUS REPORT
	Give a brief narration of the status of compliance of the earlier observations, and the
	detailed compliance may be annexed.
Sub-section 16:	OTHER COMMENTS/OBSERVATIONS

#### **ANNEXURES**

Annexure I: Demonstration Plots Annexure II: Organisation Chart

Annexure III: Cost sharing of the project

Annexure IV: Sites visited

Annexure V: Details of Social facilitator if any

AnnexureVI: Water Regulation Act as passed by the State and any other similar Act passed by the State

#### **PLATES**

#### Photographs (geo-tagged)

Index Plan of Canal Command

Table showing break up of outlets covered with water courses (Nos./ %) under each Branch canal, Distributories, Minors/Subminors.

# **Details of Structural Intervention**

Date of	
inspection	
Name of Project	
District	
State	

				CCA of		Intervention-wise scope and achievement as on										
									Micro-		Land				Land	
S1.	Distribut	Minor	Outle	outlet	Total Field	Channel	Field C	hannel	Irrigati	on	Levell	ing	Field I	Orains	Reclem	nation
No	ory Name	Name	t No.	(Ha)	Length(m)		Lined (m)		(Ha.)		(Ha)		(Ha)		(Ha)	
				(11a)		Execute	Plann	Execut	Plann	Execu	Plan	Exec	Plan	Exec	Plann	Execu
					Planned	d	ed	ed	ed	ted	ned	uted	ned	uted	ed	ted

# Appendix-D(2)

#### DETAILS OF NON STRUCTURAL INTERVENTION

Date of inspection	
Name of Project	
District	
State	

							Fun	ctional (	Frant				
Sl.No	Distributory	Minor	Inforn		inform	ation		Infrastuctral Grant					
51.140	Name	Name	No. of WUAs	No. of Outlets	CCA	Elligible	Central	state	Farmers	Elligible	Central	State	
			Proposed	covered	covered	grant	share	Share	Share	grant	Share	Share	

#### PROGRESS OF STRUCTURAL INTERVENTIONS

#### A. Field Channel.

	S.	Outl et No.		Distrib	CCA of Outlet		Field Channel Cons	tructed (m)	Khasara/ plot	Actual Area	Actual
No			Minor	utary		Lined field	Unlined field		no. covered	being irrigated	expenditure
1	.10			utai y		Channel	channel	Total Field Channel	no. covered		Rs. in Lakh

# **B.** Micro Irrigation

S. No	Outl			Area planned under MI		Area Completed under MI					
	et No.	Minor	Distrib utory		Creation of MI infrasturcture	Drip/Sprinkler installation by Farmer	Drip/Sprinkler installation through convergence	Remarks			

# C. Land Levelling

				Area	Completed und	er Land Levelling		Actual	
S.	Outlet	Minor	Distrib	Manual	Mechanized		Khasara/ plot Nos.	expenditure in	
No	no.	WIIIOI	utory	Land	Land		Covered	Rs. Lakh	
				Levelling	Levelling	Total Land Levelling		NS. Lakii	

# **D. Drainage Work**

							Actual expenditure in Rs.
Sl. No.	Outlet	Minor	Distrib	Area Complete	Lakh		
S1. NO.	no.   Millor   utary		utary	Leangth of Field	Length of Co	onnecting Drains	Total Area Benefitted
		Drains (m)			(m)	(Ha)	

# E. Reclemation of Water logged Area

					Area Co	Actual			
S. No.	Outlet	Minor	Distrib	1 60 1	Length of	m . 1 v	m . 1 A	expenditure in	
		No.		utary	Length of Sub-	Surface	Total Length	Total Area	Rs. Lakh
					surface drain (m)	drain (m)	of Drains (m)	Benefitted (Ha)	

# **Progress of Non Structural Interventions**

Date of	
inspection	
Name of Project	
District	
State	

Sl. No	Distributa ry	Minor	Name of WUA	Number of outlets	CCA Covered	Total No. of Membe rs	Amount of functiona l grant deposited	Amount of Infrasturctur al grant deposited	No. of Trainings imparted	No. of Members Trained	Control & Manage ment Taken over (Y/N)

#### **SECTION-IV**

#### **SUMMARY OF ACTIONABLE POINTS**

Tabulate the actionable points of both AIBP and CADWM components under separate sections. If multiple agencies are involved, also identify the agency responsible for action.

(The compliance by State shall be indicated in the same sequential manner in which actionable points are presented here for ease of referencing).

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