

No 2/6/2013/RMCD/ 1921 - 2012  
Government of India  
Central Water Commission  
River Management Co-ordination Directorate

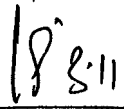
Room No. 210 (S), Sewa Bhawan,  
R.K.Puram, New Delhi- 110606  
Dated: 20<sup>th</sup> May, 2014

**Sub: Record Note of Discussions of 23<sup>rd</sup> RM Coordination Meeting held on 28<sup>th</sup> and 29<sup>th</sup> April, 2014 taken by Member (RM), CWC.**

Please find enclosed the Record Note of Discussions of 23<sup>rd</sup> RM Coordination Meeting taken by Member (RM), CWC on 28 - 29 April, 2014 with regional Chief Engineers of CWC.

Necessary action as per identified action points / decisions taken in the meeting may be expedited and follow-up action reported to undersigned on monthly basis.

Encl: As above

  
18.5.2014  
(D.P.Mathuria)  
Director (RMC)

To

1. PPS to Chairman, CWC
2. PPS to Member (D&R / RM / WP&P), CWC
3. All field Chief Engineers / Superintending Engineers / Directors, CWC
4. Chief Engineer (P&D / FM / HRM / PAO / PPO / PMO / IMO), CWC
5. Advisor (ISO), CWC
6. Secretary, CWC
7. All Directors under RM Wing (HQ)
8. Director (( SMD) for uploading on CWC website) / WM / Mon (N) / WP&P Coord), CWC
9. Deputy Director (Library), CWC
10. Accounts Officer, CWC

**Copy for kind information to:**

1. PPS to Secretary (WR), MoWR
2. PPS to Additional Secreratary (WR), MoWR
3. Commissioner(s) (SPR / Ganga / JS (PP)), MoWR
4. JS & FA, MoWR

/RS/Trg

## **MINUTES OF THE 23<sup>RD</sup> R. M. COORDINATION MEETING HELD ON 28<sup>TH</sup> AND 29<sup>TH</sup> APRIL 2014**

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The 23<sup>rd</sup> R. M. Coordination meeting was held under the Chairmanship of Shri K.N.Keshri, Member (RM), CWC on April 28th and 29th, 2014 at New Delhi. The list of participants is given at **Annexure-1**.

Member(RM) welcomed Secretary(WR), Chairman, CWC; participating Chief Engineer(s), Superintending Engineer(s)/ Director(s) of CWC and officers from MoWR. Thereafter Member(RM) invited Chairman, CWC and Secretary(MoWR) to address the meeting and guide the senior officers of CWC who had been entrusted with the onerous task of implementing 12<sup>th</sup> Plan proposals.

Secretary (WR) took the occasion to stress that apart from technical issues, it should be the endeavour of regional offices of CWC to give ever more impetus to use of Hindi in official discharge of works. He highlighted the issues concerning water resources in general and areas requiring specific attention of CWC in particular. Secy(WR) brought forth the environment flow issues related to Kishan Ganga Hydel Project in J&K and wanted an introspection in so far as their viewing from international perspective is concerned. While glossing over the proposed agenda for the meeting, he opined that the meeting does offers an opportunity to discuss such issues also.

Sharing of the data, enriching India-WRIS and making India-WRIS more accessible was another area highlighted by Secy(WR). He appreciated that issues such as preparation of shoreline atlas are also proposed to be discussed, which becomes important given the fact that an impressive outlay has been earmarked towards sea erosion works as well as ADB sponsored scheme in States like Maharashtra and Karnataka. He expressed his concern about the scheme of 16 National projects as these projects are not progressing in the way they should have been. He wanted regional CEs to look into these issues also.

Secy(WR) expressed his concern over the fact that no proposal was received last year under Repair Renovation and Restoration (RRR) of water bodies, a very important centrally sponsored scheme, which can positively change the management of water resources. He expressed his happiness that CWC plans to carry out monitoring of storages in 120 reservoirs during the Plan period raising it from 87 reservoirs being monitored at present and web-enabling the entire system. He called upon regional CEs to gear up to meet the expectations of Parliament in respect of VIP references/ Parliament Assurances/ Parliament Questions and wanted CWC to be extra vigilant in ascertaining that information are collected and submitted with utmost priority. Secretary fully endorsed the concern raised by CWC in various occasions about requirement of additional manpower to fulfil the milestones earmarked during the 12<sup>th</sup> Plan Period. He noted that without availability of manpower, much of the expectations in respect of Plan Schemes may remain unfulfilled.

Chairman, CWC underlined his concern about ambitious targets earmarked during the 12<sup>th</sup> Plan Period in so far as DWRIS Scheme is concerned. He noted that India-WRIS portal is an important structure created by CWC and needs to be fed with requisite data and therefore lot of attention is

needed towards this area. Regional offices are to exhibit an encouraging role with State Government for which building greater familiarity with them is desired. Director-in-charge of Monitoring units of CWC should be comfortable using the web enabled BHUVAN platform for monitoring of projects. Recognizing that census of M&MI projects is going to play a very vital role in documenting the progress made by the country, Chairman, CWC wanted field offices to be proactive as the platform will provide reliable data for responding to Parliamentary references. Chairman, CWC stressed upon the importance of telemetry in the context of real time reception of data for flood forecasting and the role it proposes to play therein. Some of the problems related to performance of telemetry stations, issues of its maintainability, readiness of the equipment at the start of monsoon season and maintenance of the system, largely continuing in nature, can very well be owned up through increased personal interaction with the vendor with whom maintenance contracts exist. These aspects need priority space in ensuring that flood forecasting infrastructure is fully geared up to face the future challenges. He advised that Executive Engineers of CWC should take up the ownership of the system and should establish mechanisms, which may require proactive arrangements on their part. He wanted regional CEs to realise the fact that availability of staff strength is not going to improve over that available during the past periods and so solutions for improving the performance of existing system as well as taking up expansion programs of 12<sup>th</sup> Plan period are required from their end.

Another area of concern is inter-state water disputes tribunal who are now increasingly questioning the methodology and process being adopted by CWC in hydrological observations. This is going to put serious pressure on CWC as an organization working as a central repository of hydrological data with a certain degree of neutrality. He cautioned that CWC should avoid a situation becoming party to the dispute whereas warring parties will always like to bring CWC role into dispute. He cautioned disputes are going to be more acrimonious given the fact that population is increasing against finite availability of surface water. Chairman, CWC briefed the participants that new ADs have started joining the organisation and these competent officers should be given responsibility and utilized optimally so as to take up the envisaged role of DDs.

Member(RM) welcomed all the participants to the 23<sup>rd</sup> RMC Meeting. He recalled that subsequent to last review meeting held on 31<sup>st</sup> December 2013 wherein the planning for implementation of 12<sup>th</sup> Plan Scheme *Development of Water Resources Information System (DWRIS)* after its approval by the Government was discussed, the agenda notes for 13<sup>th</sup> RMC meeting delve upon various issues related to progress in respect of various Plan Schemes of CWC, which presently constitute a major activity area of RM wing with matching budgetary commitments. He stressed that 12<sup>th</sup> Plan period bestow upon CWC manifold increased responsibilities in so far as targets contained in various Plan Schemes of CWC viz., *DWRIS*, *Flood Forecasting* etc are concerned. Other than these, schemes like *Investigation of Water Resources Development (IWRDS)*, a component of *River Basin Management (RBM)*, *River Management in Border Areas (RMBA)* and *Infrastructure Development (ID)* are also being implemented by RM Wing. The kind of increased responsibility in CWC field offices can be very well understood from the outlay of DWRIS Plan Scheme which has been approved by the Government for Rs.1370 crore. One of the components of the Scheme i.e. *Hydrological Observation* alone with an outlay of Rs.1023.88 crore proposes to open 800 new additional stations besides upgradation of 100 existing stations to include coverage of additional river flow parameters. These additional sites have been identified to cover hitherto poorly attended areas/ concerns like inter-state and international issues, climate change, project planning etc and

thus shall become a future asset for the organisation. In addition to that there is an entirely new component which envisages the work of *Coastal Management Information System* with an outlay of Rs.15 crores and *telemetry based system for monitoring of water levels on real time basis* on 120 reservoirs with an outlay of Rs.15 crores. These targets certainly being ambitious require proactive actions on the part of regional offices of CWC who are required to play the most important role in achieving these targets. Incidentally, *Flood Forecasting Scheme* which proposes to add additional 240 Inflow Flood Forecasting Stations to the existing CWC network of 175 Flood Forecasting Stations is yet to be approved by the government. These additional flood forecasting stations shall be requiring an odd 328 new base stations to supplement the efforts. In addition to above, various high end technological ventures in the field of mathematical modelling for flood forecasting, inundation modelling and development of high resolution DEMs for about 2 lakh sq. km of most flood prone areas in the States of UP, Bihar and West Bengal have been proposed. Incidentally, the EFC is yet to be approved by the Government, inspite of 2 EFC meetings already held for the same.

Similarly, *IWRD* and *RMBA* schemes are also awaiting approval of the Government. Another approved scheme available for implementation pertains to *Infrastructure Development* which provides for construction of CWC office/ residential buildings through the country. An interesting component forming part of the this scheme is construction of hutments at about 53 locations all over the country for which budgetary allocations in the form of Vote on Account have been made in favour of respective DDOs / Executive Engineers of CWC. These works need to be taken up with utmost sincerity and endeavoured for completion during this financial year itself. Once completed, it will go a long way in improving the infrastructure in the form of buildings at various CWC sites and will also positively encourage staff.

M(RM) underlined that staff strength including work charged at all levels in our offices has worsened over a period of time. The work charged staff strength among other things is a prerequisites for implementation of kind of work that CWC handles. The situation arising out of staff shortage has led to manifold increase in challenges before the organization. The pertinent question often raised as to how do we propose to move forward to complete the targets that have been set by the Government before us inspite of these hurdles is a question to be answered by us alone. M(RM) recalled that while exploring some solutions in this direction, outsourcing of HO observation on experimental basis was viewed as a step in the right direction at a right time, which forms a part of the agenda.

In addition, there are a number of issues pertaining to flow of information from field offices of CWC to CWC Headquarters for variety of purposes related to appraisal, monitoring of projects, assurances given before the Parliament/ Parliamentary Standing Committees etc. He observed that time period left for implementation of CWC Plan Schemes is only 3 years and the targets may only be achieved once the most important part of planning and preparation of implementation Plan on year to year basis is well understood, owned and implemented with the similar ownership.

Thereafter, various Agenda items were discussed in detail as below:-

### **23.1 Continuing Items**

#### **23.1.1 Physical and financial targets/ achievements and plan expenditure, &**

(Para 1.5.2 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

**23.1.2 Work Plan for FY: 2013-14, &**

(Para 1.3 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

**23.1.3 Tenders for planned works, &**

(Para 1.1 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013 and Para 2 of Record of Discussions of the Review Meeting dated 31.12.2013 for implementation of Central Sector plan scheme “DWRIs – HO”)

**23.1.4 The work awarded/to be awarded, &**

(Para 1.5.1 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

**23.1.5 Hydrological Observation network proposed under DWRIS/ FF during 12<sup>th</sup> Plan**

(Para 1.5.4 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013 and Para 1 of Record of Discussions of the Review Meeting dated 31.12.2013 for implementation of Central Sector plan scheme “DWRIs – HO”)

Physical and Financial Progress of Plan Schemes up to 31.03.2014 during FY:2013-14 in respect of

(a) *Flood Forecasting* (FF);

(b) *Development of Water Resource Information System* (DWRIS) having following components:

- i. Hydrological Observations including Snow Hydrology, Water Quality and Monitoring of Glacial Lakes,
- ii. Strengthening of Monitoring Units in CWC.

(c) *Investigation of Water Resources Development*, a component of *River Basin management Scheme*, and

(d) *Infrastructure Development*, were reviewed.

It was found that financial progress vis-à-vis BE:2013-14 in respect of plan schemes has been poor largely because of the fact that most of the plan schemes were either approved very late or are still awaiting approvals of the government.

The physical progress in respect of major components under “FF”, “DWRIS”, “IWRDS” and “ID” was also discussed. It was informed that apart from R&M of existing infrastructure of CWC, the major components of work comprise of tenders for *automatic data acquisition and real time data transmission system* at existing stations or for civil works required for upgradation of sites or for procurement of specialised high value equipments. Accordingly, against the target of installation of 125 new telemetry stations under FF (identification of all of which has been completed by field offices), tenders have been invited for 6 stations by CSRO, KGB, YBO, MERO, B&BBO and works are in process of evaluation or have been awarded. Other regional offices observed that since the approval of EFC is awaited, accordingly the process has not been initiated. Similarly out of the work of establishment of 2 new Modelling Centres, work under CSRO is under progress. The decision taken in earlier meetings was reiterated by M(RM) that providing telemetry at existing stations is a continuing nature of work since 11<sup>th</sup> Plan period and accordingly, the same should be continued without further delay within their delegated powers. M(RM) informed the participants about an earlier decision of the meeting of Senior Officers of MoWR dated 9.7.2012 taken by

Secretary(WR) deciding that “*all activities on ongoing schemes/ programmes of 11<sup>th</sup> Plan will continue as before*” and accordingly advised field CEs to take necessary action as per these decisions.

[Action: all field CEs, CE(FM/P&D), Dir(RMC/ FFM)]

Similarly under DWRIS-HO component, out of 100 sites proposed for upgradation during FY:2013-14, 53 have been upgraded. Balance target is being carried forward during FY:2014-15, while 10 new sites have been opened (4 by LGBO and 2 by CSRO) against Nil target during FY:2013-14.

During FY:2014-15, a target of opening 236 new stations has been proposed. It was decided that the tenders for procurement of HO & WQ instruments/ equipments required for up-gradation of existing sites/ new sites of CWC as per earmarked targets already communicate by Dir(RDC) be issued/ processed by field offices by 31.5.2014.

[Action: all field CEs, CE(P&D), Dir(RMC/ RDC)]

It was informed that for opening of new sites in a time bound manner, necessary preparatory action would be required towards the following. Such information remained largely wanted to date.

- a. Identification of site (type of river flow parameters to be observed),
- b. Identification of land requirement (Private/ government, quantity),
- c. Identification of civil works/ M&E & their tenders
- d. Necessary protocols for acquisition of land
- e. Phasing of costing/ demand for funds for FY:2014-15.

It was informed by field Chief Engineers that identification of sites have been completed and other preparatory activities are in pipeline. Member (RM) desired to complete the targets at the earliest. Member (RM) desired that the field organisations should keep RDC Dte. informed with the above information/ land acquisition status for new sites on quarterly basis.

[Action: all field CEs, CE(P&D), Dir(RMC/ RDC)]

Dir(FFM) informed the status of action taken as per decision taken in earlier meeting related to arrangements for extension of nozzle of bubbler type of sensors below the lowest water level in deepest channel and location of termination block to ensure that hydrological data flows uninterrupted to the Modelling Centres. CE(LGBO) informed that sites have been finalised and action is underway, while CE(KGBO) has completed the works at 3 sites and CE(BBBO) at 1 site. No status in respect of other field CEs was available. M(RM) stressed that this is particularly important in view of making available HO data on 365x24 basis. However concerned CEs may take site specific decision about extension or otherwise of nozzle and communicate the same to Dir(FFM) for monitoring its implementation. He directed that implementation of this decision is pending since 2011 and it should be seen that the decision is implemented by 30.6.2014.

[Action: all field CEs, CE(FM), Dir(RMC/ FFM)]

Dir(RMC) informed that one of the reasons for non-functioning of telemetry stations has been recurrent non-functional system attributed to theft etc of solar panels. Accordingly, it was decided in 3<sup>rd</sup> Review Meeting that 25% of solar panels be kept ready in stores for replacement as MAS items to ensure that remote stations remain functional at all times. Except for KGBO who'd

maintained a stock balance, no organisation has provided a status of action taken against the decision pending since 2011. M(RM) underlined importance of such policy decisions and cautioned that onus of having a functional telemetry system, both in terms of its accuracy and timeliness rests with field CEs only. Accordingly, it is imperative for field CEs to utilise the stock limits provided to them to ensure that functionality of system due to non-availability of solar panels is eliminated. Member (RM) desired that other field organisations should complete the above activity by 30.6.2014.

[Action: all field CEs, CE(FM), Dir(RMC/ FFM)]

A query was raised regarding some sites which are proposed for upgradation by installation of telemetry system under the *FF* scheme but which are neither forecasting nor base stations. Some such sites are located not on the river but in the interiors of the basin while some others are located in a basin other than the forecast basin. It was clarified that in view of the ever evolving computational facilities and modelling techniques, it is desirable to move forward from traditional statistical correlation methods to rainfall-runoff modelling for which rainfall and other climatological data from the interiors of the basins are required. Moreover, it is not possible to classify sites into water-tight compartments of HO and FF. The sites which are presently used for HO only may be used for FF in future. Moreover, there is also need to collect hydro-meteorological data to facilitate studies on climate changes. Given the need to reduce manpower requirement, it is also desirable to adopt telemetry for as many sites as possible.

[Action: all field CEs, CE(FM/P&D), Dir(RMC/ FFM)]

#### **23.1.6 Monthly progress reports**

(Para 1.5.5 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

It was informed by Dir(RMC) that monthly progress reports in the requisite proforma showing annual targets fixed by regional Chief Engineer for himself and his officers are not being received from some regional offices.

M(RM) stressed that progress reports may be sent regularly by all field offices as the same is required for monitoring the progress of various activities.

[Action: all field CEs, CE(FM/ P&D), Dir(RMC)]

#### **23.1.7 Inventory of H.O. stations of CWC and Physical verification of T&P**

(Para 1.5.6 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

It was informed that status of inventory of all equipments at site like current meters, whether serviceable or unserviceable, along with list of different parameters being observed at such sites was required to be completed. Similarly physical verification of all T&P including office furniture, camp equipages, surveying instruments, HO and FF measurement equipment etc. and writing off the unserviceable items as on 30<sup>th</sup> September every year was also required to be completed for 2013 and certificate to this effect be furnished to RMC Directorate. This is still awaited in respect of MERO, B&BBO, LGBO, IBO, UGBO, Mon-C & Mon-S and NBO. It was decided that action in respect of above may be completed and status submitted to RMC Dte by 30.6.2014.

[Action: all field CEs, Dir(RMC/ RDC)]

### **23.1.8 Strengthening of Water Quality Labs in field units**

(Para 1.5.7 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Dir(RDC) informed that a decision was earlier taken to hire Data Entry Operators by Regional Offices on contract basis to handle the increased work of water quality. The issue was discussed and it was decided that as the scheme has been approved by the government for implementation, action on such proposals as per the requirement of Data Entry Operators and provisions available in EFC may be completed by regional offices in accordance with appropriate delegation available with competent authorities.

[Action: all field CEs, CE(P&D), Dir(RDC/ RMC)]

It was also informed by Dir(RDC) that action related to accreditation of all Labs (Level-II and Level-III) of CWC for parameters covered in WQ protocol may be taken. Accreditation of Water Quality for Coimbatore may also be carried out following the document prepared by YBO. The status of the progress in this respect was discussed. SE(HOC), Noida informed that the work of accreditation of NRWQL at New Delhi, after its award, is already underway. However important issues like requisite staff strength of desirable qualifications, as per requirements for accreditation by NABL may remain an area of concern and these issues may also come up during audit by the consultant. CE(CSRO) informed that action has been initiated for accreditation of Level II+ SRD lab, Coimbatore during 2014-15. Meeting discussed the issue as to whether the outcome of accreditation of NRWQL, New Delhi be awaited before initiating the accreditation process of the other labs either by individual field offices or through centralized competitive bidding process at HQrs. After discussions, it was decided that individual regional offices may initiate the process of accreditation of level-III lab by hiring of consultants for the purpose using the RFP document used by YBO immediately without awaiting for the outcome of process initiated by YBO. The lessons from YBO experiences in this context can act as catalyst in the entire process. The status in this respect may be regularly intimated to Dir(RDC).

[all field CEs, CE(P&D), Dir(RMC/ RDC), SE(HOC), Noida]

### **23.1.9 Scheme-wise Targets and Work Plan for FY 2014-15**

(Para 3 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Dir(RMC) informed that work plan (physical and financial) identifying monitorable targets for FY:2014-15 as per EFC, consolidated in respect of each regional CE Office in the requisite proforma, already made available to them, is awaited. This work plan gains importance as the same is proposed to be monitored by senior officers in Ministry and CWC alike.

Member(RM) wanted that every field organisation may submit the work plan for 2014-15 in the indicated proforma by 31.5.2014, so that the activities can be monitored.

[all field CEs, CE(P&D/ FM), Dir(RMC/ RDC/ FFM)]

### **23.1.10 Norms for the Work-Charge Staff**

(Para 4 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

The field organisations of Central Water Commission are entrusted with the work of hydro-meteorological data observations, flood forecasting, survey and investigation of water resources



projects (including incidental works related to investigation of projects). Of late, due to introduction of modern technology for hydro-meteorological data observation, its transmission and collection has undergone significant changes. Accordingly, the need for reviewing the norms for category-wise requirement of work charged posts was being felt for some time and incidentally, was also highlighted by Work Charged Employees Association. Accordingly, a Committee was constituted under Chairmanship of CE(P&D). The analysis/ findings of the Committee was shared with Regional Chief Engineers and based on inputs received from regional offices, the Committee submitted its report to M(RM) which was forwarded to CE(HRM) for implementation of its recommendations.

CE(HRM) while presenting the progress in implementation of recommendations of the Committee informed that the report was examined and a few observations have been communicated to RMC Dte. The issues were discussed in detail and it was decided that observations of HRM wing may be replied by Dir(RMC) at the earliest. It was also decided that these issues apart other recommendations of Committee, on which no observations have been made by HRM wing, could be acted upon immediately by issuing government orders/ OMs in a time bound manner.

[Action: CE(HRM), Dir(RMC/ E.2)]

**23.1.11 Revised criteria for inter-circle transfer of work charged Staff**  
(Para 5 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Revised criteria for inter-Circle transfer of Work Charged Staff has since been notified vide CWC O.M. No A-22020/01/2012-Estt-XII/024(E) dated 22.01.2014. Since the action has been completed, the item was dropped.

**23.1.12 Outsourcing of HO work at a few sites**  
(Para 6 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Dir(RMC) informed that the work of hydrological observation at CWC HO network, among others, is carried out under *Hydrological Observations including Snow Hydrology, Water Quality and Monitoring of Glacial Lakes* component of DWRIS Plan scheme which has been approved by the Government vide MoWR Order No.6/12/2012-PP (Vol.II) dated 17.12.2013.. The component of the Scheme, i.e. *Hydrological Observation* with an outlay of Rs. 1023.88 crore against which it is proposed to open 800 new sites besides upgradation of 100 existing sites to include coverage of additional river flow parameters. DWRIS scheme proposes to create 2551 new work-charged posts (including 205 for upgraded sites and 48 for water quality component) required for opening of new sites/ up-gradation of existing sites and their regular maintenance. Meanwhile, while exploring alternative options to overcome the constraints of availability of additional work charged staff towards O&M of HO at CWC network through outsourcing of works at pre-identified HO stations to capable agencies/ firms on experimental basis, a *Request for Proposal* (RFP) document towards outsourcing the work of HO observations at 48 stations was circulated and presented during the 5<sup>th</sup> Review meeting.

The work of outsourcing of HO observations (complete with T&P, labour etc) at about 50 stations located in different river basins was approved '*in-principle*' and regional CEs were requested to forward their comments/ observations on the RFP to Director (RMC/ RDC) including list of

stations proposed for outsourcing. Based on the inputs received from Regional Chief Engineers/ CEs/ other officers in RM Wing, *RFP/EoI* document has been finalized with approval of Chairman, CWC. However the list of Stations proposed for outsourcing is still awaited and needs to be made part of RFP document before it can be notified for enlisting the willingness of prospective bidders. The agenda was discussed and concerns about secrecy of GBM data/ data dissemination policy was also raised. During discussions, it was opined that since CWC is mandated to collect hydrological data and RFP only proposes to outsource the data observation services, so the issues of data dissemination policy were not involved. Similarly it was also felt that vendor selected for providing services under the RFP would be bound to observe secrecy undertaking as part of contract clauses and hence such issues remain part of contract obligations only. M(RM) underlined the importance of such initiatives in context described in the agenda. He wanted that regional CEs may relook this activity and forthwith communicate the list of stations, both existing and new, within their jurisdiction proposed for outsourcing under the RFP by 31.5.2014.

[all field CEs, CE(P&D), Dir(RMC/ RDC)]

### **23.1.13 Change of designated monsoon period for river basins**

(Para 7 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Director (FFM) informed that all field offices dealing with flood forecasting works have been requested vide letter dated 21<sup>st</sup> March 2014 for specific preparedness activities as per the modified flood period. The specific preparedness at field level may include:

1. Entry of Static and Semi-static data in respect of all stations related to flood in the online FF dissemination module of e-SWIS before start of monsoon season.
2. Entry of flood data on real –time basis in respect of all stations related to FF activity.
3. Arrangement for Computers with OS MS-Windows 7 or higher with high speed internet connection (speed 512 kbps or higher) to all offices from where the flood data has to be entered and uploaded online.
4. Updating of all contact details for e-mails/SMS.
5. Division wise training on FF module of e-SWIS has been completed. No trainee has attended from Damodar Division, Asansol. Some of the other divisions have sent persons not connected with flood forecasting activity. Field offices are requested to make all logistic arrangement for function of FF module of e-SWIS during monsoon 2014.

[Action: All field CEs, Dir(FFM)]

### **23.1.14 Status of Telemetry Data Reception**

(Para 8 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Dir(FFM) informed that the percentage of reliable data reception from most of the divisions is still very low and the issue has to be taken up by respective modelling centres and organisation for rectification of installed system before start of the flood season by the concerned vendor by undertaking pre-monsoon inspection of sites. All sites are required to be made operational to ensure reliable and timely data. During discussions it emerged that most often the actionable issues remain about identification of obligation of vendor as service provider or department as client for rectification of problems at site. It was observed that obligation of vendor or client arise from the contract conditions alone and therefore the concerned engineer-in-charge are required to issue appropriate orders under contract clauses for rectification of the problems at site which are affecting

the functioning of the telemetry stations under intimation to Dir(FFM)/ SE(HOC), Noida. Non-action after such orders by vendors may make him liable to prosecution including debarring from entering into departmental bidding in future and/ or blacklisting for all practical purposes. Similarly non-action on part of client affecting overall functioning of the system may be taken seriously by concerned CEs. It was also decided that present arrangements in form of Implementation Committee under CE(YBO) may consider assigning responsibilities to Executive Engineers in charge of telemetry stations by nominating them as Engineer-in-charge for entire works related to existing telemetry stations in their jurisdiction, for which entire responsibilities shall be borne by them.

[Action: All field CEs, Dir(FFM)]

**23.1.15      Compilation of information and study for appraising higher authorities in the event of severe flood situations in the country**

(Para 9 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

It was decided that HSO, CWC will finalise and circulate the requisite format by 10.5.2014 to all field organisations under intimation to Dir(FFM). The field organisations will send the required data in proper format as per the timelines given in the letter for study and report compilation.

[Action: all field CEs, CE(HSO)]

**23.1.16      Changing of Warning and Danger Levels**

(Para 10 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Director (FFM) informed that the warning and danger Level (WL/ DL) at Srinagar on river Alaknanda has been reviewed in the light of the severe flooding in 2013 and the revised WL/ DL has been accepted. The field office has to ensure FF services during 2014 as per revised WL/ DLs.

He further informed that letters have been issued by field divisions for review of levels for Rosera on BurhiGandak and Mathura PrayagGhat on Yamuna and will be changed in consultation with respective user agencies. The field offices may try to finalise these before the monsoon 2014.

All regional offices should take up the review of WL/ DLs as well as for taking the criteria for issue of inflow forecast from the respective project authorities for inflow forecast in the time bound manner under intimation to Dir(FFM).

[Action: all field CEs, Dir(FFM)]

**23.1.17      Entry of all type of Hydro-meteorological data in SWDES and uploading of non-classified Hydro-meteorological data on India WRIS web site:**

(Para 11 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Dir(RDC) presented status of hydro-meteorological data in SWDES format and water/ sediment/ water quality/ meteorological (climate) year books by field organization and same is given as **Annex-2**. M(RM) observed it surprising that since Year books are required to be prepared using the data base from SWDES, the glaring shortfalls/ gaps in hydro-meteorological data in SWDES format is not understood and certainly not possible to explain. It was also decided that all field organization should make all out effort to complete the pendency within a period of three months

thereof and report the status to Dir(RDC). It was also decided that historical hydro-meteorological data base may also be updated in SWDES format immediately within similar time frame.

[Action: all field CEs, CE(P&D), Dir(RDC)]

**23.1.18 Review of Hydro-meteorological observation site:**

(Para 12 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

Dir(RDC) explained that the need for review of location of some of existing HO sites of CWC by regional CEs was underlined in view of some of them being technically un-suitable for discharge measurement due to construction of Weir/ Barrage/ Reservoir and other diversion structure or any other reason necessitating their shifting upstream/ downstream for proper and accurate measurement of discharge. However except for KGBO, no information is available. It was stressed that concerned CEs are authorised to take decisions in such matters after undertaking comprehensive review of HO stations within their jurisdiction. However it remains essential that RDC dte is also kept informed of the exercise. Accordingly, it was decided that field CEs will complete the exercise by 31.7.2014 under intimation to Dir(RDC).

In addition, it was also decided that the status of preparatory works for opening of new sites during the 12<sup>th</sup> Plan in requisite proforma, which is still awaited, be made available to Dir(RDC) by 31.5.2014 and that all preparatory works for opening of new sites be completed for its implementation in time bound manner as per target.

[Action: all field CEs, CE(P&D), Dir(RDC)]

**23.1.19 Inspection of Hydro-meteorological observation site:**

(Para 13 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

M(RM) reiterated earlier decision in the matter and wanted that norms for inspection of sites should be followed vigorously and inspection report in RD-16 should be submitted to next higher authority immediately after inspection of site and followed by action taken report on the discrepancies pointed out during the inspection. Use of check meter for checking the discharge observation should be followed as a rule rather than an exception. Quarterly summary of inspection carried out by EE and above level officers may be sent to Dir(RDC) for appraisal of M(RM) on regular basis.

[Action: all field CEs, CE(P&D), Dir(RDC)]

**23.1.20 Enriching India-WRIS portal:**

(Para 14 of Record Notes of Discussion of 5<sup>th</sup> Review Meeting dated 18.11.2013)

M(RM) stressed that India-WRIS portal is an important tool which should be nourished regularly with the requisite information. Therefore, as per earlier decision taken, water quality, being unclassified data for the entire country as per New Hydro-Meteorological Data Dissemination Policy 2013, is required to be uploaded on INDIA-WRIS portal. Such information from all the field CEs be sent to Dir(RS) by 30.6.2014.

[Action: all field CEs, Dir(RS)]

**23.1.21** It was informed by Dir(RMC) that against the sanctioned strength of 4849, 844 vacancies exists at various levels of work charged staff. In general, timely DPCs are not held for

filling up the vacancies as per model calendar for holding DPCs against the vacancy year. The situation has not improved much since last meeting. M(RM) directed that efforts for filling up vacancies needs to be taken with utmost religiosity and invariably by following the model calendar for holding DPCs. Dir(RMC) may be kept informed with the status so that same can be monitored.

[Action: all field CEs, CE(HRM), Dir(RMC/ E.2)]

**23.1.22** Dir(RMC) informed that it was decided under Para 4 of Review Meeting dated 31.12.2013 that all cases awaiting approval of roster for work charged establishment pending with HRM Wing be taken up immediately including submission of proposals to HRM wing by field offices so that approval of the roster is completed within a period of 15 days after receipt of complete proposals from field offices. CE(HRM) and Dir(E.2) apprised about the progress in the matter and it was observed that except for HOC, Maithon all the proposal have been examined/ processed by HRM wing. The observations of HRM wing are being addressed by field Circle offices. M(RM) wanted that this work should be got completed in time bound manner and will be monitored by him. The progress in the matter may be intimated to Dir(RMC) on regular basis.

[Action: all field CEs, CE(HRM), Dir(RMC/ E.2)]

**23.1.23** It was informed by Adv(ISO) that a proposal for creation of new work-charged posts under the *DWRIS* scheme is under process with MoWR for obtaining approval of the competent authority. M(RM) observed that new work charged posts are essential for manning new HO proposed to be established and also for manning upgraded stations. Therefore this component assumes criticality. He stressed that the proposal may be pursued vigorously with MoWR. Dir(RMC/ RDC) may monitor the progress in the matter and apprise him regularly.

[Action: Adv(ISO), Dir(RMC/ RDC)]

**23.1.24 Telemetry Based reservoir Monitoring System**

(Para 6 of Discussions of the Review Meeting dated 31.12.2013 for implementation of Central Sector plan scheme “DWRIs – HO”)

The decision taken under agenda is under para 23.2.12.

**23.1.25 Coastal Management Information System**

(Last Para of Discussions of the Review Meeting dated 31.12.2013 for implementation of Central Sector plan scheme “DWRIs – HO”)

The decision taken under agenda is under para 23.2.8.

**23.1.26 Follow up action on the decisions taken during the 22<sup>nd</sup> RMC meeting held on 29<sup>th</sup> and 30<sup>th</sup> August 2011**

Status of the follow up action taken on the decisions of the 22<sup>nd</sup> RMC meeting held on 29-30 August, 2011 was appraised and noted during the meeting.

**(e) New Agenda Items**

**23.2.1 Conducting Government Business**

Dir(RMC) informed that it has been decided during earlier meetings that financial rules/ procedures are followed strictly while implementation of Plan schemes and detailed estimates for minor works, procurement of machines and equipment etc. are prepared by the field officers and the technical sanctions are accorded by the competent authority. All the work proposal proposed for implementation during FY:2014-15 against budgetary allocations should emerge from these sanctioned technical estimates irrespective of mode of implementation viz., departmental or contractual. Such working estimates shall thereafter become basis for adopting annual plans prescribing the physical and financial targets for respective regional offices.

It was decided to monitor the annual plans and accordingly consolidated list of the technical estimates sanctioned in the jurisdiction of each regional Chief Engineer during FY:2014-15 indicating name of work, estimate number/ date, estimated cost and the sanctioning authority may be furnished to Dir(RMC) for reference and record by 31.5.2014.

[Action: all field CEs, CE(P&D/ FM), Dir(RMC/ RDC)]

#### **23.2.2 Utilisation of Hydrological Data received from neighbouring countries**

Regional CEs of CWC from B&BO, LGBO and IBO explained how the data received from the neighbouring countries was being utilised in issuing forecasts. Member (RM) expressed the need for proper compilation and analysis of this historical data. It was decided that the historical data received till date from the neighbouring country of Bhutan shall be compiled, analysed and Status Report be prepared by CE(B&BBO). CE(LGBO) shall carry out similar exercise in respect of data received from Nepal, while CE(B&BBO/ IBO) would complete similar works for river Brahmaputra and Sutlej respectively. The regional offices would also intimate the meta-data to headquarters.

[Action: CE(P&D/ FM/ IBO/ B&BBO/ LGBO), Dir(FMP)]

#### **23.2.3 Regional committees for flood prone area assessment in the country**

Member (RM) expressed concern at the slow pace of progress achieved in the formation of regional committees. Even where regional committees have been formed, the meetings have not taken place except for the State of Odisha where one meeting has taken place. All the regional CEs were requested to effectively coordinate with the State Governments and expedite the work on scientific assessment of Flood Prone Area in the respective State/UT.

[Action: all field CEs, CE(FM), Dir(FMP)]

#### **23.2.4 Use of MIKE 11 in field organizations of CWC**

Dir(FCA) informed that P&D organisation is carrying out monitoring of status and performance of MIKE 11 models in field organizations of CWC. Only ten divisions have so far replied. Also MIKE models have been developed in the past and supplied to 7 divisions viz., UYD, New Delhi/ LYD, Agra/ Chambal Division, Jaipur/ MBD, Guwahati/ LGD, hyderabad/ ERD, Bhubaneshwar/ Mahanadi Division, Burla. Only Chambal Division, Jaipur is using the model for inflow forecasting and sending the performance regularly while the model is being put to limited use by

other Divisions. However, usage of MIKE 11 model for flood forecasting by other Divisions is not being received.

It was decided that all these divisions must send the status report on usage of MIKE-11 which should inter-alia critically appraise the limitations in the usage of the model techniques, if any based on comparison of forecasts generated using alternative techniques. The division using MIKE 11 model may submit the report on the performance of the model covering following.

- Background of FF activity in division using MIKE 11,
- Calibration of model highlighting changes made in model as compared to the previous year,
- Comparison of result of MIKE 11 with observed values
- Critical analysis and Conclusion.

[Action: all field CEs, CE(P&D), Dir(FCA)]

### 23.2.5 Data Requirement for development of MIKE 11 Model

Dir(FCA) informed that guidelines towards data requirement (prescribing its format) for development of basin/ sub-basin specific flood forecasting and inflow forecasting mathematical models using MIKE 11 software have already been issued in September'2012. Observing that often, the supply of requisitioned data is either delayed or is not in requisite format, field CEs were requested to work upon a program for effecting implementation of mathematical modelling techniques at existing flood forecasting stations indicating requirement of software, coordination process with directorates under P&D organisation for development of model and data requirement for validation of model. M(RM) desired that endeavour of CWC shall be to switch over from conventional forecast formulation techniques to model based techniques in a time bound manner. Accordingly P&D Organisation may take lead in the matter and coordinate with field offices to suggest a course of action plan based on status of data available (both HO & river profile) with these organisations. Thereafter field CEs shall prepare an action plan to fill up the data gaps so that the endeavour becomes workable.

[Action: all field CEs, CE(P&D), Dir(FCA)]

### 23.2.6 Flood Inundation Modelling

DiR(FCA) informed that CWC is going to initiate flood inundation modelling activity soon. To begin with, deltaic region of Mahanadi Region covering 8000 km<sup>2</sup> has been identified. High resolution DEM is available for this region. To carry out this activity it is important that water level data is measured on all distributaries of river Mahandi in deltaic region. At least 2 sites are required (with water level data of at least two flood season) on each of the distributaries preferably one in the initial reach of the stream which would give some idea about water distribution downstream of Naraj and another in the lower reach of each stream. It would be useful to collect the information related to high tides and low tides. Some of the suggested sites are as under.

Number of proposed sites	River name	Remark
2 sites	RajuaDaya	FF site
2 sites	Bhargavi	FF site
1 site	Kushabhadra	One site Nimapara already exist

1 site	Devi	One site Alipingal already exist
2 sites	Mahanadi	

These sites should be equipped with real time data transmissions system to cater to future requirements of inundation forecasting. It was decided that preparatory arrangements including logistics for field works be met by CE(MERO) and activity may be implemented from flood season 2014 itself.

[Action: CE(MERO/ P&D), Dir(P&D/ FCA)]

### 23.2.7 Shoreline Change Coastal Atlas

The agenda was noted. M(RM) wanted field CEs to make maximum use of this information at every forum and educate the maritime states with these developments at various forums so that this useful source of information is gainfully utilised.

[Action: CE(NTBO/ KGBO/ CSRO/ MERO/ TBO/ FM, Mon-S), Dir(CE)]

### 23.2.8 Coastal Management Information System (CMIS)

The agenda was noted and discussed. Dir(CE) informed that discussions have been initiated with the maritime states for exploring possibilities of establishing and running coastal data collection sites with the help of State Governments as well as other central agencies. Further “*One day Brainstorming Workshop on implementation and creation of Coastal Management Information System (CMIS)*” has been planned jointly by CWC in the month of May, 2014 to consolidate the considered opinion from all the maritime states as well as central agencies associated with this subject and chart out a road map to proceed ahead.

CE(CSRO) apprised that recognising the concern that the work involved in *CMIS* are new for which limited expertise is available in CWC, these works may require deployment of expert and trained manpower. Accordingly, as per an earlier decision draft MoU towards a tripartite agreement with State/ Central agencies involved in such type of work has been initiated. Further progress in the matter shall remain outcome of brainstorming workshop proposed. M(RM) appreciated the work done to-date and wanted that such proposal may be finalised with utmost priority based on discussions on the subject during the work shop.

[Action: CE(CSRO/ FM), Dir(CE)]

### 23.2.9 Guidelines for filling up of the vacant posts of Skilled Work Assistants (SWA)

Dir(RMC) informed that a proposal has been received in CWC Headquarters for filling up of vacant posts of Skilled Work Assistants (SWA) under M&A Dte., CWC, Jammu vide which Dir(M&A) has sought for the criteria on the basis of which candidates for the post of SWA can be called for interview.

Since the qualification required for applying for the post of SWA is only high school, applications in thousands is expected and thus taking interview of all candidates will be impossible as interview is the only criteria mentioned in Recruitment Rules. The Recruitment Rules-2011 for direct recruitment of SWA under work charged establishment stipulates as under.



Educational and other qualifications required for direct recruitments	-	Matriculation or ITI or equivalent from recognised Board/ University/ Institution
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As per Recruitment Rules-2011, duties and job responsibilities assigned to the post of Skilled Work Assistant are as below:

- (i) To carry out any job of assistance / help related to hydro-meteorological observations, flood forecasting, survey & investigation of project, snow observation, silt observation, plying of boats, operation of machines, watch and ward, gardening, office upkeep / cleaning etc.
- (ii) Any other duty assigned by the Officer-in-charge.

Similar situation is also anticipated during filling up of 2551 posts under work charged establishment sanctioned as part of approved DWRIS Scheme for 12th Five Year Plan.

The issues were discussed in detail and it was observed that Central guidelines for completing recruitment process smoothly is necessary as number of field offices shall be making recruitment to SWA post. In case they follow different criteria for the same, it may reflect poorly on organisation as a whole and may also lead to unwarranted references / issues. It was decided that to monitor the process of recruitment by field offices at such a large scale, a Monitoring Cell at CWC (Hqs.) under a Director level officer can also be created who shall be responsible to oversee that such Central guidelines are being followed while making the recruitments. This will lead to uniformity in process and approach while making recruitments at SWA level by Circle Offices.

The meeting discussed and decided upon a criterion for filling up the vacant posts of SWA as below.

- Circle offices to be responsible for recruitment,
- In the 1<sup>st</sup> stage, top 2.5-3 times no of candidates based on marks scored in metric/ ITI or equivalent can be shortlisted for 2<sup>nd</sup> stage
- In the 2<sup>nd</sup> stage, shortlisted candidates can be screened through personal interaction,
- Weightage of marks shall be 80% (1<sup>st</sup> stage) and 20% (2<sup>nd</sup> stage) to arrive at total marks,
- In case of tie, candidates with higher age shall be given preference
- Criteria shall remain applicable even for future direct recruitment of additional w/c staff in CWC.

[Action: all field CEs, CE(HRM), Dir(RMC/ E.2)]

#### **Day 2: 29.4.2014**

The agenda beyond this was discussed on 29.4.2014. Member (WP&P) in his opening remarks welcomed the Chief Engineers and Directors from the field organisations of CWC in the 23<sup>rd</sup> RMC meeting. Since the regional offices of CWC are catering to the functional requirements of WP&P wing he emphasised the need for co-operation of the field offices of CWC in providing timely inputs for processing the cases for release of Central Assistance under AIBP & RRR of Water Bodies and for their help in improving the quality and speedy Appraisal of MMI Projects. He further emphasised the field offices to submit the proposals in line with the recently revised

Guidelines for AIBP & RRR of Water Bodies. He also requested for expediting the collection of requisite information from the respective State Governments for various pending Parliament Assurances for their earliest fulfilment. Thereafter the agenda items pertaining to the various organisations of WP&P wing were taken up for discussion.

#### **23.2.10 Publication of *Integrated Hydrological Data Book* by Information System Organisation**

Adv(ISO), CWC informed that Information System Organisation (ISO) has been bringing out the publication “*Integrated Hydrological Data Book*” in respect of Non-classified river basins regularly on annual basis. The publication for the Water Year 2011-12 was expected to bring out in March 2014. However the same is delayed for want of ‘Statistical Tables’ for the following basins:-

- Mahanadi
- Subernarekha, Burhabalang&Baitarni
- Brahmani
- Rushikulya, Vamsadhara, Saroda&Nagavali
- Tapi Basin
- Mahi& Sabarmati

SE(C), NTBO informed that the Hydrological data in SWDES format has already been sent to ISO and the desired information may be extracted from it. However after deliberations Member (WP&P) decided that the data in the format required by ISO may be sent for the above mentioned basins. However he will review the value addition of the publication, since a lot of information on water resources is already available in the India-WRIS Portal and a decision for continuing with the publication will also be taken accordingly.

[Action : CE/ SE (C) {MERO/ KGBO/ NTBO}]

#### **23.2.11 Appraisal of projects by Project Appraisal Organisation of CWC**

##### **23.2.11.1 New Major Irrigation & Multipurpose Projects**

Chief Engineer (PAO) before taking up the proposed agenda items, highlighted the need and necessity for timely and quality appraisal of water resources projects. He emphasised the appraising offices to prepare the check list with respect to various project parameters and suitably indicate the outcome of appraisal of each parameter vis-a-vis the parameters given in the project report.

On the aspect of In-principle approval for the preparation of Detailed Project Report (DPR) he stressed upon the scrutiny of the project proposals from vital project parameters such as Hydrology, Irrigation Planning and Inter-state aspects for assessing their techno-economic viability and avoiding wasteful expenditure later in the preparation of DPR.

It was impressed upon that the appraisal of medium irrigation projects is principally similar to Major irrigation projects. There can be some difference in the extent of survey & investigations required in case of major and medium project. The details of all survey and investigations required are available in “Guidelines for Preparation of DPRs of Irrigation & Multi-purpose Projects, MoWR, 2010” It was clarified that since the size of medium irrigation projects in terms of command area and in terms of cost is not much different than the major projects therefore the extent of survey and investigations have to be accordingly decided and it may be ensured that the project

report is prepared subsequent to field investigations. Survey and investigation details must form a part of the project report as a separate chapter.

While appraising a new project it may be ensured that all details as per checklist given in “Guidelines for Preparation of DPRs of Irrigation & Multi-purpose Projects, MoWR, 2010” are available. . If any chapter as prescribed in these guidelines is missing, it needs to be pointed out to State Govt. for its inclusion. In case, DPR proposal is having all chapters conforming to the existing guidelines, then it is to be forwarded to PAO, CWC with initial observations of the field office without waiting for the reply to the initial observations. While forwarding the DPR to CWC HQ it may be clearly stated that preliminary examination indicates that the project report can be circulated to the specialised units for detailed appraisal and examination.

[Action: all field CEs & Directors concerned]

### **23.2.11.2 New Medium Irrigation & Multi-purpose Projects**

With regard to the appraisal of new Medium Irrigation & Multipurpose projects, he emphasised the need for appraising the basic parameters, e.g. hydrology, irrigation planning etc., based on standard procedures and using field data relevant to the project and its location. Citing the example of water resources assessment he mentioned that simply providing the quantum of water available based on regional assessment and not with respect to project specific assessment may affect the efficient operation of the project after its execution. The planning, design and costing need to be checked as per the Guidelines for Preparation of DPRs of Irrigation & Multi-purpose Projects, MoWR, 2010”.

Survey & Investigation being the important component of Project Planning, he emphasised that while appraising the project it may be ensured that the estimation of various parameters for the design of the project component are based on actual survey and investigations. It has been experienced that in the absence of proper survey and investigations carried out at the planning stage, the project cost continues to be revised and many new components are added subsequently which may impact the techno-economic viability of the project. While planning the canal alignment it must be ensured that required survey and investigation have been carried out up to distributaries levels. The design, BOQs, and Cost estimates should be framed on these inputs in order to have a bankable project.

The quantities of works proposed as well as costing proposed for any individual component may be checked in reference to survey, geo-technical investigation as well as designs. The cost estimates based on typical details must be discouraged.

The crop yield estimates used for assessment of BC Ratio by State Government may be supplemented with similar data available for the region, adopted for other projects around the project under appraisal, and also with respect to state average as per available information (publication of Economic Survey by Directorate of Economic & Statistics of concern State, and publication by Min. of Agriculture, Govt. of India.).

Member (WP&P) stressed upon that even if the certificates have been issued by the CDOs as per the standard format, the guidelines do not bar the appraising authority to have checks on the design and planning aspects so as to satisfy themselves on the technical soundness of the project proposal.

Chief Engineer, Monitoring Central, CWC Nagpur suggested that In-Principle Clearances for medium irrigation projects may be given by Field Offices instead of CWC HQ. The Member (WP&P) clarified that a committee is in place at CWC HQ for according In-principle approval for all such proposals and hence all such proposals are required to be sent to CWC HQ.

It was reiterated that in case, any Monitoring & Appraisal unit of CWC field offices faces any kind of difficulty in appraising the mandated work of appraisal of medium irrigation projects for want of inputs in respect of specialised aspects such as Hydrology, Irrigation Planning and Design aspects, they may seek the assistance from such specialised units at CWC HQ or may approach PAO, CWC for doing the needful.

The field offices of CWC were requested to comply with the existing timelines for appraisal, which are available on CWC web site.

[Action: All filed CEs/ Directors concerned]

#### **23.2.11.3 Revised Cost Estimates (RCE) proposals**

While appraising the Revised Cost Estimates proposal the earlier approved estimates either at the project approval stage or the last revised approved estimate may also be referred so as to get the insight of the revisions proposed. It was also shared with the regional offices that many a times the scope of the project gets changed. There was a considerable discussion on the “scope Change”. Member (WP&P) clarified that if there is change in the distribution of the command area, thereby change in the water distribution network, it amounts to the change in scope even if the total command area remains the same. Other aspects leading to change in scope were also deliberated. Having established the change in scope, the project proposal has to be examined as a new project, as per the existent Guidelines. The components under inadequate provisions, new additions, modifications in the proposed structures needs to be examined on technical aspects, clearly bringing out the reasons and justifications for all such changes. Revised cost estimates of the projects at the construction stage has to be examined from different considerations, as the details of the project requirement is well established through survey and investigations and it should not have any further cost revision. The construction programme at the DPR stage and at RCE stage needs to be examined and reasons recorded for changes.

[Action: All filed CEs/ Directors concerned]

#### **23.2.11.4 Environment & Forest Clearances**

The issue of statutory clearances required as a single window clearance was also emphasised. It was informed by Chief Engineer, PAO that in case of medium irrigation projects where the state level environmental clearance has not been accorded for the want of constitution of State Environment Impact Assessment Authority (SEIAA), in such cases the project automatically falls in category A and due procedure has to be followed. In this regard MoEF Notification dated 14.09.2006 and modified MoEF Gazette publication vide dated 01.11.2009 may be referred to.

[Action: All filed CEs/ Directors concerned]

#### **23.2.11.5 Minor Irrigation Projects**

It was indicated that though Appraisal of minor irrigation projects falls in the domain of the respective state governments but still the regional offices of CWC has a major role to play, being a member of the state level TAC for concurrence and approval of proposals under minor irrigation category. It was agreed that in today's context the potential being created annually is significant under minor irrigation projects and the investments under minor irrigation projects is also huge therefore it calls for CWC to play a vital role in appraising such projects so as to ensure that they are sustainable. There have been serious observations in terms of water availability of many such projects after their execution. It was therefore reiterated that as MoWR has been insisting to all state governments to prepare the guidelines for the appraisal of minor irrigation projects on scientific basis, including criteria for assessing the water availability, irrigation planning and planning of various project components. Director, CWC being the member of the state TAC, he should lay emphasis on the preparation of such guidelines and appraisal of all project proposals with respect to such guidelines. . The field offices may insist on sharing the salient features of these proposals with CWC because these projects may have cumulative impacts on major as well as medium irrigation projects located downstream of these projects, and may be important for water sharing issues also. These details may also be shared with PAO, CWC. Chief Engineer, (Mon -S) raised the issue of interstate aspects relevant to minor irrigation projects and after deliberations it was clarified by Member (WP&P) that the provisions under interstate allocations and water use may also apply to minor irrigation projects depending on the provisions in the various awards and hence such proposals may also be sent to CWC HQ for examination from interstate considerations.

[Action: All filed CE/ Directors concerned]

#### **23.2.12 Telemetry Based reservoir Monitoring System**

Chief Engineer (IMO), CWC informed that in the RMC meeting held on 31.12.2013, it was decided that bids for implementation of "Telemetry Based Reservoir Monitoring System" (TBRMS) will be invited along with the bid for implementation of similar work under Flood Forecasting Scheme and the same was confirmed in the meeting chaired by the Chairman, CWC held on 10 th February, 2014 and 12 th February 2014 to review implementation of Plan Schemes.

WM Dte., CWC had forwarded list of reservoirs under live storage monitoring system of the CWC and new reservoirs proposed to be brought under monitoring system of CWC to the respective Principal Secretary/Secretary (WR/Irrigation) of the States vide its letter dated 23rd 25th May 2012 with a copy for information and necessary action to the respective field Chief Engineers of CWC, with a request to provide concurrence of the State Government for installation of telemetry system. The list of old and new reservoirs is at Annex-I & II respectively.

Out of the 85 reservoirs already under monitoring, concurrence of the State Government for installation of telemetry has been received for 20 reservoirs and out of 89 new reservoirs, the same has been received for 53 reservoirs. The details may be seen in Annex-I & II.

It is proposed to install telemetry system on 87 reservoirs during the FY 2014-15 for live storage monitoring of reservoirs by CWC. The serial numbers of reservoirs on which telemetry is proposed to be installed during 2014-15 is highlighted in green colour in the Annexure I and II.

A letter was sent to all field Chief Engineers of CWC on 12th March 2014 along with the list of reservoirs on which work of installation of telemetry is to be carried out by them. The list was

prepared State-wise. However, offices of some field Chief Engineers have pointed out that certain reservoirs do not fall in their jurisdiction as the particular basin in which the reservoir lies is not under them. In view of above, names of field organizations to whom the reservoir was earlier assigned for installation of telemetry and field organization to whom the work is now proposed to be assigned is indicated in the Annex-I & II.

The field Chief Engineers of CWC were requested:-

1. To check the list given at Annex-I & II and point out discrepancies about the jurisdiction, if any.
2. The reservoir where telemetry is already installed or being installed for inflow forecasting purpose may be pointed out and name of some other reservoir may be suggested as replacement from Annex I & II or otherwise.
3. The live storage capacity stated in the list of new reservoirs given at Annex-II may be got checked by the field offices of CWC and if any reservoir is having actual live storage capacity of less than 60 MCM, the same need not be covered under the scheme and hence may be excluded from the list. Name of some other reservoir from list given in Annex-II may be suggested as replacement in such cases also.
4. WM Dte. is attempting to include at-least one reservoir from each of the IMD Sub-division in the monitoring system whose catchment area lies in the IMD sub-division, not covered in monitoring system so far. However, no suitable reservoir is found in the Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Haryana Chandigarh & Delhi, Jammu & Kashmir, Andaman & Nicobar Island and Lakshdweep sub-divisions. Field Chief Engineers may suggest suitable reservoirs for including in the monitoring system from these sub-divisions, if any.

[Action: All filed CEs/ Directors concerned]

The field Chief Engineers requested for the details of the TBRMS Scheme. It was decided that Director (WM) would send the same to all the field CEs at the earliest. It was also decided that the work of co-ordination for obtaining the unique ID of the reservoir, which are proposed to be brought under TBRMS, from IMD would be taken up at the CWC HQ by Director (WM).

[Action: all field CEs/ CE(IMO)/ Directors concerned/ Dir(WM)]

### **23.2.13 Monitoring of Projects**

#### **23.2.13.1 Satellite based online monitoring of AIBP projects using BHUVAN web service Bhuvan portal (SatAIBP)**

Chief Engineer (PMO) informed that as per the inputs received from CWC field units during the meeting on SatAIBP, the processed Cartosat imageries of all the 13 pilot Projects have been hosted in Bhuvan Portal by NRSC. Out of the 13 Projects only one status report namely, Gundlakamma Project of Andhra Pradesh has been received so far. Even the entry of Canal field data and progress data which does not need Cartosat satellite data is not complete in most of the cases. During the 2<sup>nd</sup> meeting on SatAIBP held on 14<sup>th</sup> March, 2014, the timeline for completion of these pilot projects was extended by further two months i.e. upto May, 2014. It was decided that the work of pilot projects would be completed by 30th May, 2014 and report would be sent accordingly.

[Action: All filed CEs/ Directors concerned]

### **23.2.13.2 Reporting of Physical & Financial progress of Plan Scheme-DWRIS (Strengthening of Monitoring Units)**

Monthly Physical and Financial progress in respect of Plan Scheme-DWRIS (Strengthening of Monitoring Units) is required to be submitted by 5<sup>th</sup> of the following month, which is at present received late on many occasions. The Monthly Physical progress should indicate the progress made in activities under Minor Works, M&E procured as well as any other important work as per the approved EFC for XII Plan. The unit-wise physical targets/ distribution are to be compiled as per the Consolidated provision in the EFC. Requirement/ Allocation of budget under M&E and minor works should be supplemented with firm proposals duly approved by Regional Chief Engineer.

It was discussed in detail and decided that the monthly financial progress report shall be submitted by e-mail followed by the confirmation copy of the covering letter by post/fax. Only the items which are covered in the EFC for XII Plan under DWRIS-SMU component for each unit may be executed as per the delegation of financial powers available. It was decided to devise a Performa for submitting the physical progress under Minor Works, M&E or OE etc., so as to compile the consolidated progress as per approved EFC.

[Action: All filed CEs/ Directors concerned/ Dir(Mon-N)]

### **23.2.13.3 To device a mechanism for processing the proposals for MMI/CADWM and monitoring of the CADWM Projects**

The issue was discussed in the meeting and it was decided that the Regional offices are required to ensure that the CA proposals are processed in such a way that the shortcomings, if any, in the proposals in light of the revised AIBP guidelines are complied through coordinating with the concerned State Governments expeditiously and thereafter forwarded to CE (PMO), CWC with recommendations in clear and logical terms so that the same can be forwarded to MoWR. A time-line for processing and forwarding the CA proposals to CWC, New Delhi be prepared and adhered to by the respective regional offices.

Status of submission of CA proposals under AIBP may be submitted on fortnightly basis during 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarters and weekly during 4<sup>th</sup> quarter in respective Financial Year to the concerned Monitoring Dte. of CWC HQ along with a copy to the Monitoring (West) Dte.

Apart from the Central Assistance (CA) proposals for major and medium irrigation projects under AIBP, the CAD-WM component of the projects (under construction/completed) by the state governments which are also to be processed by the regional offices, came up for discussion. It was informed that few regional offices had received the proposals but none of them was found fit for recommendation. The issue was discussed in the meeting as per the 'Modified Guidelines for the AIBP in the XII Plan', wherein it is stated that the AIBP proposals (including CADWM component with Investment clearance) for release of the CA from the Central Govt. will be submitted by the State govt. to the corresponding field office of CWC. The field office of CWC will then check the proposal at the time of submission itself towards its completeness. It was decided in the meeting that the complete proposal after scrutiny would be forwarded to Chief Engineer (PMO), CWC for onward transmission to MoWR. The CWC letter No.8/123/2013-Mon(C)/36-61 dated 15.1.2014 has already been issued requesting the regional Chief Engineers to send the CAD-WM proposals to

MoWR through the CE (PMO), CWC, New Delhi. The follow up action on these instructions may be taken by the regional offices.

[Action: All filed CEs/ Directors concerned]

#### 23.2.13.4 Status of Monitoring (Field Visits/ Status Report) of Projects

As per the information available in Monitoring (North) Directorate, the overall achievements during 2013-14, as on March, 2014, 117 Monitoring visits (9 General projects and 108 AIBP Projects) have been made and 88 status reports (8 General projects and 80 AIBP Projects) have been issued by the CWC field Units. 1 Project was visited and 1 status report was issued by the CWC (H.Q.). The state-wise list of number of Projects under AIBP, projects visited for monitoring and status reports issued is given at following table:

State-wise Summary of AIBP Monitoring visits during 2013-14				
Sl.No	Name of the State	No. Of Projects*	Achievement	Status Reports prepared
			Ist Visit	Ist Visit
1	A.P.	20	18	17
2	ASSAM	5	2	-
3	BIHAR	4	3	3
4	CHATTISGARH	4	3	2
5	Goa	1	1	1
6	GUJARAT	1	1	-
7	HIMACHAL PRADESH	3	3	2
8	J&K	4	4	-
9	JHARKHAND	7	1	1
10	KARNATAKA	11	7	2
11	KERALA	4	4	4
12	M.P.	21	14	9
13	MAH	28	20	18
14	MANIPUR	3	3	-
15	ODISHA	11	9	9
16	PUNJAB	4	2	2
17	RAJ.	3	1	1
18	TRIPURA	3	3	-
19	U.P.	8	7	7
20	WEST BENGAL	2	2	2
	<b>Total</b>	<b>147</b>	<b>108</b>	<b>80</b>

\*Target is fixed as one visit for each project

The examination of some of the status reports being received in the CWC (H.Q.) revealed that the status reports are generally not in conformity with the guidelines for it's preparation, specially the progress in terms of dot and bar charts keeping the hydraulic continuity in view, is not given. Such aspects need to be covered in detail. During the meeting it was supplemented that all pending status reports of Gujarat, Himachal Pradesh and Madhya Pradesh have also been issued by now, however



the status reports of North Eastern States remains to be issued, which needs to be expedited. The progress in terms of dot and bar charts for major projects like Sardar Sarovar may consist of many pages, yet for conformity with the guidelines for preparation of status reports and to monitor relative progress and to know actual status, it was considered an important document and was agreed to be compiled. It was also decided that the Regional Offices of CWC may submit the Quarterly Progress Reports in respect of the ongoing projects to CWC(HQ) in time for review.

[Action: All filed CEs/ Directors concerned]

#### **23.2.13.5 Draft Compendium for the Tenth Plan & Eleventh Plan on Major and Medium Irrigation Projects in India**

The status of data/ information received from the State Government for preparation of Compendium for Tenth Plan on Major and Medium Irrigation Projects in India was deliberated during the meeting. CWC has earlier submitted the compiled draft compendium for X Plan to all the State Govts. for updation and vetting. Some of the State Govts namely Andhra Pradesh\*, Assam, Bihar, Himachal Pradesh\*, J&K, Jharkhand, Karnataka\*, Kerala, M.P.\*, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Tamil Nadu, & Tripura Govts (\*denotes incomplete reply) have already submitted the updated/ vetted material for the Compendium for X plan. However, updated/ vetted information is still awaited from the States namely Arunachal Pradesh, Chhattisgarh, Goa, Gujarat, Haryana, Maharashtra, Mizoram, Punjab, Sikkim, Uttarakhand, U.P. and West Bengal. It was decided in the meeting that the respective Regional Chief Engineers would take up the issue with the State Govts and impress upon them for early submission of the updated/ vetted material for compilation of the compendium for X Plan. It was further decided to send all the relevant correspondences and draft compendium compiled in CWC through e-mail, once again, to regional offices for taking up the issue with the State Govts. for early persuasion of the issue.

It was also apprised in the meeting that now the preparation of compendium for XI plan on Major and Medium Irrigation Projects in India has also become due. A letter containing the relevant Annexures indicating the details/data to be obtained from the State Govts has already been sent during April 2014. The Regional offices may take up the issue with State Govts for obtaining the relevant details so as to enable compilation of Compendium for XI Plan.

[Action: All filed CEs/ Directors concerned/ Dir(P&P)]

#### **23.2.14 RFD targets for the year 2013-14 in respect of MoWR**

As required by MoWR regarding RFD targets for the year 2013-14, a letter from CE(PMO) vide No. 4/5/2014/2069-85 dated 25/03/2014 requesting information in respect of increase in irrigation area achieved through the schemes like AIBP, CADA and RRR along with targets in respect of Creation of irrigation potential through Major and Medium irrigation Projects & reducing gap between "Irrigation Potential Created (IPC) and Irrigation Potential Utilized (IPU)", has been sent. Further, reference vide letter no. PLU 1/9/2013-PP dated 22.04.2014 has also been received from MoWR to furnish the actual achievement for 2012-13 and 2013-14 and also the projected targets for 2014-15, 2015-16 and 2016-17 in respect of the total area covered with MMI- Single and double cropped so as to enable the Ministry to intimate ATF accordingly. The reference received from MoWR is being sent separately. During the meeting, Commissioner (SPR), MoWR also emphasized the issue in detail. It was decided that all regional offices may coordinate with the

respective State Govt and make available the relevant details urgently for compilation in CWC(HQ) and further submission to MoWR.

[Action: All filed CEs]

### 23.2.15 Parliament Assurances

Several correspondences were made with State Govts for obtaining the requisite information regarding the pending Parliament Assurances. The Status of details/information received from the State Govts on these pending parliament Assurances is given below:

SL. NO.	SUBJECT	REPLY RECEIVED FROM STATES	REPLY PENDING FROM
1.	Assurance 3310(11239) Assurance given in Lok Sabha in reply UQ No3310 by Kumara SarojPandey , Sh. S. Pakkirappa, MP replied on 13.12.12 regarding Availability of water for Irrigation.	Chandigarh, Sikkim, NVDA Bhopal, Meghalaya, Madhya Pradesh, West Bengal, Odisha, & Lakshadweep Govts.	All others except those given in previous column.
2.	Assurance given in Lok Sabha in reply UQ No3308 by L.Rajagopal MP replied on 13.12.12 regarding Irrigation Potential.	Chandigarh, Sikkim, NVDA Bhopal, Meghalaya, Madhya Pradesh, West Bengal, Odisha, & Lakshadweep Govts.	All others except those given in previous column.
3.	Assurance given in Lok Sabha in reply UQ N 5716 by replied on 06.12.12 regarding Availability of Canal Water. (Related to Chhattisgarh & Jharkhand Govt.)	Nil	Chhattisgarh & Jharkhand Govts.
4.	Assurance given in Lok Sabha in reply UQ No. 8064 to be replied on 06.12.12 regarding Dam under Construction.	Goa, Meghalaya, Odisha, Rajasthan, Sikkim, West Bengal, Chandigarh, & Lakshadweep Govts.	All others except those given in previous column.
5.	Assurance given in Lok Sabha in reply UQ 3433 for 13.12.12 to be replied on 13.12.12 regarding Canal network for dams. (for PA-N Dte.)	Bihar, NVDA Bhopal, Sikkim, West Bengal, Lakshadweep, Delhi, Jharkhand, Daman & Diu, Assam, Maharashtra, West Bengal, Manipur, U.P.*, Chattisgarh, Kerala, Haryana, Meghalaya & Odisha Govts.	All others except those given in previous column.

During the meeting, the copy of reply in respect of UQ No. 5716 for Jharkhand State was furnished by CE(LGBO). Further, as requested by CE (LGBO) and Director (Mon), Lucknow, copy of the

letters in respect of pending Assurances was handed over to them. CE(C&SRO), CWC informed that data has already been sent related to Assurance No. 3310 for A&N, 3308 for A&N, Tamil Nadu & Puducherry and 3433 for Tamil Nadu. It was decided to mail the copy of the letters in respect of the pending Parliament Assurances to Regional offices who have not received the copies so far. It was decided that the Regional offices may take up the issue with State Govts for obtaining the relevant details which is pending for quite a long time so as to enable compilation of reply in respect of above Parliament Assurances for early submission to MoWR.

[Action: All filed CEs/ Directors concerned]

#### **23.2.16 Material for reply to Parliament Questions alongwith supplementary information**

Parliamentary References including the Parliament Questions (Starred and Un-starred), VIP References etc. require the flow of information to Chief Engineer(PMO) in order to enable the MoWR to frame the replies of the Parliament Questions with the correct and dependable data. As many a times the information required to be provided in respect to the Starred and Un-starred Question is not readily available with CE(PMO), CWC, New Delhi, the information is sought from the regional Chief Engineers, CWC on urgent basis which many a time is required to be obtained from the respective State Govts. It was requested to all regional Chief Engineers that due importance may be given to such flow of information both in relation to the fresh Parliament Questions and fulfillment of the Parliament Assurances.

[Action: All filed CEs/ Directors concerned]

#### **23.2.17 Major & Medium Irrigation (MMI), Minor Irrigation (MI) and CADWM -- Preparation of Irrigation Development Report, Monitoring Status and action plan (2014-15) of the State Govts.**

The issue of preparation of Irrigation Development Report for the respective states under the jurisdiction of the regional Chief Engineers was explained by Chief Engineer (PMO). It was decided during the meeting that the format for preparation of the irrigation development reports shall be provided to the regional Chief Engineers for guidance. The regional CEs shall compile the information from the State Govts and will submit the status on the Irrigation Development Reports to CE(PMO), CWC.

[Action: All filed CEs/ Directors concerned]

#### **23.2.18 IP created source-wise & project-wise**

(i) D.O. from the Member (WP&P), CWC was sent to regional CEs during April 2014 to obtain the information related to irrigation potential created and utilized - project-wise and source-wise (MMI, Surface MI, RRR, Ground Water, Schemes of MoA/MoRD ) in consultation with the State Governments under their jurisdiction. It was decided in the meeting that the regional offices shall compile the information and submit it to CE (PMO), CWC on urgent basis.

(ii) D.O. from the Member (WP&P), CWC was sent to regional CEs during April 2014 to obtain the information related to AIBP (regarding CADWM of 142 completed projects, the projects which are not active for last 3-4 years, delayed projects, ongoing projects and its CADWM activities) in

consultation with the state government under their jurisdiction It was decided in the meeting that the regional offices shall compile the information and submit it to CE (PMO), CWC, at the earliest.

[Action: All filed CEs/ Directors concerned]

**23.2.19 Need to hold close interaction meetings (periodically) with the State Govts. at the level of Regional CEs, CWC and CE(PMO), CWC (H.Q.)**

In the 21<sup>st</sup> Meeting of RMCD held during March 2014, it was decided that Regional Chief Engineers will hold Quarterly review meeting at regional HQ with State Govt officers having representatives of CWC (HQ) and MoWR. During the discussion, it was revealed that such meetings are not generally taking place at present. However it was indicated by Regional Chief Engineers that they continue to meet the state govt officers frequently in various technical discussion/occasions. It was decided to revive the practice of holding the formal review meeting by Regional Chief Engineers with State Govts which will be helpful in resolving various technical issues regarding obtaining data/information required for compilation of various manuals/compendium, Parliament questions/Assurances etc. The concerned officers from CWC(HQ) may also be invited.

[Action: All filed CEs/ Directors concerned]

**23.2.20 National Projects**

Chief Engineer, PPO initiating the discussions requested active co-operation of the field offices of CWC in providing the requisite information as given below:

**a) General**

- i) CWC (HQ) is not receiving Quarterly physical/financial progress reports of the projects. Concerned field unit may take up the matter with State Government.
- ii) Monitoring visits may be made once/twice a year in detail and monitoring report may be sent before forwarding the release proposal.
- iii) As the release proposals of National Projects are to be approved at Chairman/Member (WP&P) level, the release proposal along with observations/recommendations may be sent to CWC (Headquarter) at the earliest.

[Action: All filed CEs/ Directors concerned]

**b) Project specific assistance required**

**• Projects under execution –**

S.No.	Name of the Project	CWC Unit	Field	Assistance required
1.	Gosikhurd Project	Mon.(C), Nagpur		<ul style="list-style-type: none"><li>• Detailed programme for Reservoir filling,R&amp;R and Land acquisition be collected.</li><li>• Remedial measures as suggested by Chairman, CWC, in March, 2012 be completed at the earliest.</li></ul>

			<ul style="list-style-type: none"> <li>• Concurrent evaluation of project through WAPCOS may be got started.</li> </ul>
2.	Teesta Barrage Project	TBO, Siliguri	<ul style="list-style-type: none"> <li>• Land acquisition be expedited.</li> <li>• Finalization of agencies of bigger contracts.</li> <li>• CAD activities may be got expedited for utilization of potential created.</li> </ul>
3.	SaryuNahar	UGBO, Lucknow	<ul style="list-style-type: none"> <li>• Completion of gaps.</li> <li>• Realistic programme for completion of project.</li> </ul>
4.	ShahpurKandi	IBO, Chandigarh	Expedite transfer of land from J&K to Punjab.

[Action: All filed CEs/ Directors concerned]

• **Projects under Appraisal/DPR preparation stage**

S.No.	Name of the Project	CWC Field Unit	Assistance required
1.	LakhwarVyasi	YBO, Delhi	<ul style="list-style-type: none"> <li>• Coordinate with State Govt. for investment clearance.</li> </ul>
2.	Kishau	YBO, Delhi/IBO, Chandigarh	<ul style="list-style-type: none"> <li>• Facilitate formation of Joint Venture between Uttarakhand&amp; H.P.</li> <li>• Facilitate Compliance of the observations of CWC/CEA.</li> </ul>
3.	Renuka	IBO, Chandigarh	<ul style="list-style-type: none"> <li>• Facilitate Forest &amp; other clearances.</li> </ul>
4.	Ujh	IBO, Chandigarh	<ul style="list-style-type: none"> <li>• Environment &amp; Forest clearance.</li> <li>• Clearance from State TAC.</li> <li>• Compliance of the observations of CWC/CEA.</li> </ul>
5.	Bursar	IBO, Chandigarh	<ul style="list-style-type: none"> <li>• NHPC is preparing DPR of the project. As requested by NHPC, Govt of J&amp;K may be contacted for providing security to NHPC staff</li> </ul>
6.	Gyspa	IBO, Chandigarh	<ul style="list-style-type: none"> <li>• Finalisation of revised MOU with HPPCL regarding release of Central Assistance under IWRD scheme.</li> <li>• Early completion of DPR.</li> </ul>
7.	Second Ravi Beas	IBO, Chandigarh	Coordinate with Punjab for early completion of PFR/DPR.

[Action: All filed CEs/ Directors concerned]

**23.2.21 RRR of Water Bodies**

a) **Ongoing water bodies of XI Plan**

The Details of ongoing water bodies completed, potential restored, increase in storage capacity after restoration, utilization of central assistance and expenditure incurred are

required by MoWR. The details as available in PPO are at **Annexure-III** which may be got confirmed /updated after holding meetings with the concerned State Govts.

[Action: All filed CEs/ Directors concerned]

**b) New proposals for inclusion in the scheme of RRR of water bodies in XII Plan**

- (i) Status of proposal of new water bodies which are under examination of CWC Field Units is at **Annexure-IV**. The proposals satisfying the eligibility criteria as per revised guidelines of October 2013 need to be expedited by arranging meetings with the concerned State Govts.
- (ii) Soft copy of the proposal may also be sent to CWC (HQ) along with appraisal note of each of the water body as per **Annexure-V** for putting up to Empowered committee.
- (iii) The concurrent evaluation is to be arranged by State Govt. The projects are also required to be monitored by CWC Field units (say 5%). The concurrent evaluation report and monitoring reports are required to be sent along with subsequent release proposals.

[Action: All filed CEs/ Directors concerned]

**23.2.1 Any other Item with permission of Chair**

The meeting ended with vote of thanks to Chair.

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**Annexure- I**

**List of participants in 23<sup>rd</sup> River Management Coordination Meeting during 28-29 April, 2014**

Sl. No.	Name (S/Shri)	Designation
1	Alok Rawat	Secretary(MoWR)
2	A.B.Pandya	Chairman(CWC)
3	K.N.Keshri	Member(RM)
4	A.Mahendran	Member(WP&P)
5	C.K.Agarwal	CE(HRM)
6	M.P.Singh	CE(P&D)
7	S.K.G.Pandit	CE(Des. N&W)
8	C.P.Singh	CE(FMO)
9	R.K.Jain	CE(BPMO)
10	R.K.Gupta	CE(Desgin-E&NE)
11	K.S.Jacob	CE(Mon-S)
12	Lalit Kumar	CE(NBO)
13	A.S.P.Sinha	CE(MERO)
14	R.K.Sinha	CE(B&BBO)
15	V.N.Wakpanjar	CE(MCO)
16	M.S.Agrawal	CE(YBO)
17	S.K.Sahu	CE(LGBO)
18	Ram Saran	CE(UGBO)
19	R.K.Suryawanshi	CE(NTBO)
20	R.S.Ram	CE(NBO)
21	J.Chandrasekhar Iyer	CE(CSRO)
22	R.K.Gupta	CE(PAO)
23	Sanjiv Aggarwal	CE(PMO), CWC, New Delhi
24	D.C.Sharma	Advisor(ISO) , CWC, N.Delhi
25	Pradeep Kumar	Commissioner(SPR), MoWR, New Delhi
26	A.K.Agrawal	SE(IC), TBO
27	Bhupinder Singh	SE(C), IBO, Chandigarh
28	P.Dorje Gyamba	Dir(M&A), CWC, Shimla
29	Vivek Tripathi	Dir(M&A), Jammu
30	Darpan Talwar	Dir(M&A), Chandigarh
31	Pankaj Tyagi	Dir(M&A), Hyderabad
32	Rajesh Yadav	Dir(Mon), Agra
33	Neeraj Kumar Manglik	Dir(RD), CWC, N.Delhi
34	A.K.Kharya	Dir(CC, P&D &Morph)
35	D.P.Mathuria	Dir(RMC), CWC, N.Delhi
36	H.K.Meena	Dir, M&A Dte, Jaipur
37	Sameer Kumar Jha	SE, NEIC, Shillong

38	S.K.Rajan	SE(HOC), Maithon
39	Shiv Nandan Kumar	Dir(FMP) , CWC, N.Delhi
40	V.D.Roy	Dir(FFM) , CWC, N.Delhi
41	Rati Ram	Dir(UT&SS & FM-I), , CWC, N.Delhi
42	Deepak Kumar	Dir(N&BC) , CWC, N.Delhi
43	M.Ramesh Kumar	SE(KGBO)
44	Ambarish Nayak	SE(C), Patna
45	D.M.Raipure	SE(C), MCO, Nagpur
46	R.D.Deshpande	Dir(Mon), MCO
47	Bhupesh Kumar	SE(HOC), Noida
48	M.Krishnan Unni	Dir(Mon), Bangalore
49	S.K.Kamboj	SE(C), NBO
50	Sharad Chandra	Dir(M), CWC, Patna
51	D.K.Tiwary	Dir /SE, NTBO,CWC, Gandhinagar
52	P.Manroi Scott	SE(C), B&BBO
53	Pradeep Kumar	SE(HOC), Guwahati
54	S.K.Sinha	SE(C), UGBO
55	G.S.Audhkhasi	Dir(E-2)
56	R.Azhagesan	SE(C), CSRO
57	C.Lal	Sr.Joint Commissioner-II(Ganga), MoWR
58	T.S.Mehra	Sr. Joint Commissioner-I(Ganga), MoWR
59	P.S.Tanck	Director, CWC, New Delhi
60	U.Tikekar	Dir(Appraisal), CWC, Nagpur
61	Madhu Sudan Gupta	Dir(Mon-C), CWC, New Delhi
62	P.S.Kutiyal	Dir(Mon-N), CWC, New Delhi
63	B.K.Karjee	Dir(Mon-W), CWC, New Delhi
64	Vineet Gupta	Dir(WP&P Coord), CWC, New Delhi
65	Yogesh Paithankar	Dir(RS), CWC, New Delhi
66	Pramod Narayan	Dir(PA-S), CWC, New Delhi.
67	A.K.Shukla	EE, Cehnab Div., Jammu
68	Ajay Kumar Sinha	DD(Morph Dte.) , CWC, N.Delhi
69	Rajesh Kumar	DD, RD Dte, CWC, N.Delhi
70	G.K.Tripathi	AD-II. RD Dte, CWC, N.Delhi
71	S.Sarkar	DD, Mon(M&A), CWC, Kolkata
72	A.K.Gupta	DD, WPC, CWC, N.Delhi
73	S.C.Tripathi	AE(C), UGBO
74	S.K.Shakya	AD, RMCD, CWC, N.Delhi
75	S.K.Suman	DD, WM Dte, CWC, New Delhi
76	R.Giridhar	DD(P&P), CWC, New Delhi
77	Shekharendu Jha	DD (M&A), CWC, Vadodara
78	R.J.Verma	DD, RDD, CWC, N.Delhi
79	O.S.C.Singh	AD, RMCD, CWC, N.Delhi
80	Mohd Faiz Syed	DD, RMCD, CWC, N.Delhi
81	R.R.Sambharia	EE, NBO



## Annexure-II

Status of availability of data in SWDES at NSWDC, New Delhi					
ORGN	Circle	Division	No. of sites	H.O Data	Meteorological Data
UGBO	HOC, Dehradun	Himalayan Ganga Div., Dehradun	17	17 Sites - May 2004	No data
		M Ganga Div. II, Lucknow	22	6 Sites- May, 2012	No Data
				9 Sites- May, 2006	
	HOC, Varanasi	M Ganga Div. I, Lucknow	29	7 Sites- May, 2008	No Data
				15 Sites- May, 2006	
				10 Sites- May, 2009	
		M Ganga Div. III, Varanasi	25	4 Sites- May, 2005	No Data
				8 Sites- May, 2009	
				6 Sites- May, 2008	
				10 Sites- May, 2007	
LGBO	HOC Patna	M Ganga Div.IV, Patna	31	1 site- May, 2012	No Data
				17 Sites- May, 2009	
				8 Sites- May, 2006	
	HOC, Maithon (Dhanbad)	M Ganga Div. V, Patna	29	6 Sites- May, 2002	No Data
				17 Sites- May, 2005	
				9 Sites- May, 2004	
		L Ganga Div., Berhampore	17	3 Sites- May, 2006	No Data
				12 Sites- May, 2011	
				3 Sites- May, 2012	
				17 Sites- May, 2009	
BBO	H.O. Circle, Guwahati	Upper Bharmaputra, Dibrugarh	45	13 Sites- May, 2008	No Data
				5 Sites- May, 2010	
				42 Sites- May, 2012	
		Middle Brahmaputra Div., Guwahati	27	3 Sites- May, 2005	20 Sites- May, 2011
					18 Sites 2007
					4 Sites- May, 2005
				14 Sites- May, 2011	13 Sites- May, 2007
				12 Sites- May, 2012	10 Sites 2005
				1 Site- May, 2005	8 Sites- May, 2009
		Lower Bharmaputra, Jalpaiguri	37		4 Sites- May, 2012
				25 Sites- May, 2011	8 Sites- May, 2003
				8 Sites- May, 2009	2 Sites 2009
				2 Sites- May, 2012	

	Meghna Circle, Silchar	Meghna Division, Silchar	14	12 Sites- May, 2008	9 Sites- May, 2008
					3 Sites 2005
	NEIC, Shillong	Meghna Inv. Division, Shillong	13	13 Sites- May, 2008	No Data
		NEID-I, Silchar	5	No Data	No Data
		NEID-II, Aizwal	3	No Data	No Data
		NEID-III, Itanagar	12	No Data	No Data
YBO	HOC, Noida	L Yamuna Div., Agra	30	16 Sites- May, 2012	18 Sites- May, 2009
				6 Sites- May 2013	7 Sites- May 2013
				3 Sites- May 2009	5 Sites- May 2012
		U Yamuna Div., New Delhi	22	12 Sites- May, 2013	12 Sites- May, 2013
				10 Sites- May 2012	10 Sites- May 2012
		Chambal Div., Jaipur	20	18 Sites- May, 2009	No Data
	Planning Circle CWC Faridabad	P&I Division CWC Faridabad	6	06 Sites- May, 2009	6 Sites- May, 2009
NBO	N.B.O. Bhopal	Narmada Divn. Bhopal	21	16 Sites- May, 2012	16 Sites- May, 2012
				3 Sites - May 2011	3 Sites - May 2011
CSRO	S.E.(C&SR), Bangalore	Cauvery Division, Bangalore	29	26 Sites- May, 2012	16 Sites- May, 2012
				1 Site - May 2011	2 Sites - May 2011
					1 Site - May 2009
	S.E.(C&SR), Bangalore	Hydrology Division, Chennai	24	20 Sites- May, 2012	16 Sites- May, 2012
				4 Sites - May 2011	3 Sites - May 2009
		SR Division, Coimbatore	21	20 Sites- May, 2012	15 Sites- May, 2012
				1 Site - May 2011	4 Sites - May 2011
	S.E.(C&SR), Bangalore	SWR Division, Cochin	23	23 Sites- May, 2012	19 Sites- May, 2012
					4 Sites - May 2011

KGBO	Godavari Circle, Hyderabad	Lower Godavari Div., Hyderabad	28	22 Sites- May, 2011	20 Sites- May, 2011
				06 Sites - May 2010	8 Sites - May 2010
		Upper Godavari Div., Hyderabad	25	15 Sites- May, 2011	15 Sites- May, 2010
				10 Sites - May 2002	10 Sites - May 2011
	Krishna & Coord. Circle, Hyd. bad	Upper Krishna Divn, Pune	28	16 Sites- May, 2009	12 Sites- May, 2009
				10 Sites - May 2008	10 Sites - May 2008
					8 Sites - May 2007
		Lower Krishna Divn., Hyderabad	27	22 Sites- May, 2007	10 Sites- May, 2009
				5 Sites - May 2009	9 Sites - May 2007
					8 Sites - May 2006
T B O	Mon (C)	S.E.(C), Nagpur	Wainganga Div., Nagpur	24	24 Sites- May, 2012
					2 Sites - May, 2010
MERO	IC, Gangtok	SID, Gangtok	11	No Data	No Data
		Eastern Rivers Division , Bhubaneswar	48	28 Sites- May, 2007	40 Sites- May, 2007
				20 Sites- May 2006	4 Sites- May 2006
NTBO	S.E., Bhubaneswar	Mahanadi Division, Burla	30	30 Sites- May, 2009	28 Sites- May, 2009
					2 Sites - May 2007
		Mahi Division, Gandhinagar	39	20 Sites- May, 2012	16 Sites- May, 2012
				19 Sites- May 2011	17 Sites - May 2010
					6 sites- May 2009
	H.O.Circle, Vadodara	Tapi Div., Surat	35	25 Sites- May, 2012	30 Sites- May, 2012
				10 Sites- May 2011	05 Sites - May 2010

**Details of water bodies completed under the scheme of Repair, Renovation & Restoration of water bodies with domestic support(as on 31.03.2014)**

S.No.	Name of State	No. of water bodies	Total project cost (Rs in crore)	CCA (ha)	Potential to be restored (ha)	Committed Central Share (Rs. In crore)	Total funds released (Rs. In crore)	Number of water bodies completed	No. of water bodies in progress	potential restored (ha)
1	Orissa	1321	254.33	64979	64979	228.89	217.45	1128	193	48643
2	Karnataka	427	232.77	8182.19		209.49	199.02	424	3	
3	Andhra Pradesh	1029	339.69	36673.71	34000	305.72	189.00	203		826
4	Bihar	15	64.45	15718	15826	55.3	52.54	12	3	15598
5	U.P. (Bundelkhand)	28	46.15	29697	17695	41.53	39.459	19	9	17020
6	M.P. (Bundelkhand)	78	41.89	25254	15560	10.47	9.95	72	6	
7	Meghalaya Umiam Lake(cost related to irrigation only)	1	2.83	405		2.54	2.42	1	0	
8	Chhattisgarh	131	122.91	89951	10703	110.61	72.65	38	93	5364
9	Gujarat	34	17.47	6574		15.72	10.61	20	14	1230
10	Haryana	3	40.24	24936		10.06	9.56	3	0	
11	Maharashtra	258	135.08	1351.97		119.34	80.53	0	258	
12	Rajasthan	16	11.35	5749		7.45	7.07	13	3	
	<b>Total</b>	<b>3341</b>	<b>1309.16</b>	<b>309470.87</b>	<b>158763</b>	<b>1117.12</b>	<b>890.259</b>	<b>1933</b>	<b>1408</b>	<b>87855</b>

## Status of RRR proposals during XII Plan

Sl.No	Name of the State	Field Unit of CWC	Number of Water Bodies covered	Status	Action required by Field unit (FU), CWC
1	Odisha	MERO, Bhubaneswar	786+879	760 water bodies have been prepared as per new guidelines and submitted to CWC (HQ) which are under scrutiny.	<ul style="list-style-type: none"> <li>Soft copies of details of 760 water bodies, Appraisal notes.</li> <li>CWC Field unit has to obtain the budgetary provision certificate (2014-15) from the state govt and forward that to CWC HQ.</li> <li>State Share release certificate shall be obtained from Sate Govt.</li> </ul>
2	Karnataka	Mon(S), Bangalore	70+58	State Govt to submit the DPRs as per the new RRR guidelines of Oct 2013	<ul style="list-style-type: none"> <li>Regional office has to recommend the amount of CA to be released for the FY 2014-15. only 10% DPRs to be sent to CWC, HQ along with recommendations.</li> <li>Soft copies of details of (70+58) water bodies, Appraisal notes.</li> <li>CWC Field unit has to obtain the budgetary provision certificate (2014-15) from the state govt and forward that to CWC HQ.</li> <li>State Share release certificate shall be obtained from Sate Govt.</li> <li>Progress and UC for the previously released Central Grant(XI Plan)</li> </ul>
3	Bihar	LGBD, Patna	39	Compliances are awaited from State Government.State Govt to submit the DPRs as per the new RRR guidelines	<ul style="list-style-type: none"> <li>Regional office has to recommend the amount of CA to be released for the FY 2014-15. only</li> <li>Soft copies of details of (39) water bodies, Appraisal notes.</li> <li>CWC Field unit has to obtain the budgetary provision certificate (2014-15) from the state govt and forward that to CWC HQ.</li> <li>State Share release certificate shall be obtained from Sate Govt.</li> <li>Progress and UC for the previously released Central Grant(XI Plan)</li> </ul>
4	Uttar Pradesh	UGBO, Lucknow	10	8 out of 10 eligible water bodies have been recommended to MOWR for inclusion.	<ul style="list-style-type: none"> <li>Any further proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order</li> </ul>
5	M.P	NBO, Bhopal	161	Compliances are awaited from State Government. State Govt to submit the DPRs as per the new RRR guidelines.	<ul style="list-style-type: none"> <li>Regional office has to recommend the amount of CA to be released for 2014-15.</li> <li>Soft copies of details of (161) water bodies, Appraisal notes.</li> <li>CWC Field unit has to obtain the budgetary provision certificate (2014-15) from the state govt and forward that to CWC HQ.</li> <li>State Share release certificate shall be obtained from Sate Govt.</li> <li>Progress and UC for the previously released Central Grant(XI Plan)</li> </ul>
	Meghalaya	B&BO, Shillong	40	Proposal of for 9 (out of 32) water bodies of WRD have been forwarded to MOWR. Compliances of observations	<ul style="list-style-type: none"> <li>Proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order.</li> </ul>

(2)

				of CWC on 8 water bodies of SWCD are awaited from State Government	
7	Maharashtra	MCO, Nagpur	583	State Govt to submit the DPRs as per the new RRR guidelines of Oct 2013	<ul style="list-style-type: none"> <li>• Proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order.</li> <li>• Proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order</li> <li>• Proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order</li> </ul>
8	Chhattisgarh	NBO, Bhopal	85+19	State Govt to submit the DPRs as per the new RRR guidelines of Oct 2013	
9	Rajasthan	YBO, New Delhi	45	Compliances for 19 water bodies have been submitted to FU. Compliances to 22 water bodies are yet to be submitted	
10	Uttarakhand	YBO, New Delhi	79	Proposal for funding 5 water bodies admissible as per new guidelines have been sent to MoWR	<ul style="list-style-type: none"> <li>• Any further proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order</li> </ul>
11	Tamilnadu	CSRO, Coimbatore	49	State Govt to submit the DPRs as per the new RRR guidelines of Oct 2013	<ul style="list-style-type: none"> <li>• Proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order.</li> <li>• Proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order.</li> </ul>
12	Himachal Pradesh	IBO, Chandigarh	1	The proposal is under scrutiny in FU	
13	West Bengal	TBO, Siliguri	2	Compliances are awaited from the State Government	<ul style="list-style-type: none"> <li>• Proposal (water bodies) from the state govt needs to have all the above requirements. FU shall ensure that they are in order</li> </ul>

**Format of Appraisal Note**

<b>General</b>		
Project Unique code number		
Name of the Project		
District		
Block		
Basin/Sub-basin		
Water spread area of the Water Body(in Ha)		
Whether it is a Urban water body or Rural water body (in Ha)		
Proposed Estimated Cost of RR & R works		
Whether qualifies for RR&R		
Whether eligible under special category and type of category? If yes, then category		
Date of initial completion of the water body		
Direct benefit		
Other benefits		
Cost per ha of restored command area		
<b>Adherence to Guidelines</b>		
Objectives catered to by the scheme	Iii, v, vi, vii, viii etc etc of Guidelines (2.2 of Guidelines)	
Whether individual water body or sub-basin approach	Individual	
Designed CCA		
Govt. owned or private owned		
<b>Information contained in the DPR</b>		
Details of present status of water bodies		
Reasons for deterioration		
Rainfall during the last 10 years		
Existing Ground water level		
Land use pattern		
Soil characteristics		
Climatic conditions		
Availability of water in catchment area for channelization to the water body		
Water quality situation in the water body and adjoining areas		
Original CCA, present CCA & CCA planned (ha)		
Original storage capacity, present storage capacity and planned storage capacity (Ham)		
Impact of water body on ground water		
Whether maps of catchment and command area included		

(2)

Targeted benefits	
Whether approved by State TAC. If yes, details	
Whether the TAC had representatives from CGWB & CWC	
Whether DLIA and SLNA are constituted by the State Government	
Project is receiving any other form of funding	
Whether IWMP works have been undertaken/continuing in the District	
Catchment treatment works under Integrated Watershed Management Programme (IWMP) have been implemented/Started	
Whether detailed calculations for BC Ratio provided.	
Pre-renovation crops, yield and cost considered ( Certificate from District Agriculture Officer)	
Post-renovation crops, yield and cost considered ( Certificate from District Agriculture Officer)	
Whether check-list for appraisal of project provided	
Key cost components	Restoration of storage Embnk+Spillway Distribution system Stren. of Bank Capacity building Etc..
Detailed work programme and corresponding financial programme	
Whether recommended for inclusion under RR&R Recommendations/Remarks	

Director (M)/SE/Director (A)

Field Unit, CWC