

No. Secy/CWC/2017/13  
**Government of India**  
**Central Water Commission**

Room No. 313 (S), Sewa Bhawan  
R K Puram, New Delhi – 110066  
Dated 21<sup>st</sup> March 2017

**OFFICE ORDER**

Consequent upon the decision taken in the 191<sup>st</sup> Commission Meeting held on 20<sup>th</sup> December, 2016, functions of CWC Dtes have been redefined (Directorate-wise distribution of works may be seen at <http://www.cwc.nic.in>) resulting in merger/renaming/shifting of some Dtes from one wing to another. The overarching objectives of this endeavour in CWC are to enlarge scope for study/analysis covering critical issues, and also to strive for catching up with advances in the water resources sector. A summary of new areas/activities that would unfold after implementation of reorganized organogram of CWC (**Annexure-I**) is listed as under:

- a) *Repositioning Coordination Dtes to proactively function as think tank of respective wings- to identify priority research areas; close monitoring of the performance of units through management tools like Performance Indicators (PIs) and work plans are a few activities have been inserted in its domain;*
- b) *Realigning functions of Directorates under RM wing to sharpen its performance in areas such as, data collection and validation- carving out a Dte to entirely focus on this aspect; flood forecasting- based on rainfall-runoff mathematical models; flood inundation; embracing new activities initiated under National Hydrology Projects & NMCG; joining hands with NWM to capture impacts of climate changes particularly in water resources sector & food production;*
- c) *Policy & research, and basin planning studies now get due focus of the WP & P wing by having dedicated Dtes to undertake these tasks- an apparent indication for growing significance of this aspect in days ahead. In order to hasten the clearances of DPR proposals in consultative manner & to take requisite measures for effective monitoring of projects, adequate strengthening of organizations like IMO, PAO & PMO has been effected;*
- d) *Stress on application of state of the art technology by CWC Dtes;*
- e) *The report seeks to achieve capacity building of both Institution and its human resources. Trg Dte has been accordingly tasked to map the training needs of CWC officials, and address these needs in synthesis with NWA;*
- f) *Few Dtes having less works have been either merged with Dtes doing more or less similar works or entirely redefined to accommodate new and burning areas of current times- inter-state matters; cost appraisal.*
- g) *Miscellaneous works like organization of Jal Kranti, conferences, workshops etc. would now be handled by Trg Dte.*

Following this decision, Dtes that undergo changes are shown next:

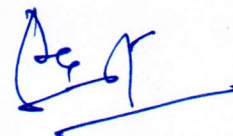
Now	Renamed w.e.f. 01.04.2017	Remarks
National Thermal Power House Dte	Inter State Matter (ISM)- 2 Dte	Activities of these Dtes would be redistributed under D & R wing.
National Thermal (Dams & Gates)	Cost Appraisal (CA) (I)-2 Dte	-do-
Narmada Canal Dte	PMKSY-AIBP Dte	-do-
Climate change Dte	River Data (RD) -2 Dte	Current Activities of Climate Change Dte is Merged with Morphology Dte



<b>Flood Application Dte</b>	<b>Control</b>	<b>Flood Control Application (FCA)-2 Dte</b>	Shifted under FM Org under RM Wing
<b>Planning &amp; Development Dte</b>		<b>Flood Control Application (FCA)-1 Dte</b>	Shifted under FM Org under RM Wing
<b>Environment Impact Assessment Dte</b>		<b>Basin Planning (BP)-2 Dte</b>	Current Activities of EIA Dte is Merged with EM Dte
<b>Construction Machinery Consultancy Dte</b>		<b>Basin Planning (BP)-3 Dte</b>	Current Activities of CMC Dte is Merged with P & M Dte
<b>National Projects-II Dte</b>		<b>Policy &amp; Research (PR) Dte</b>	Current Activities of NP-II Dte is Merged with NP-1 Dte
<b>Union Territory Dte</b>		<b>River Conservation Dte</b>	Current Activities of UT Dte is Merged with FM-1 Dte
<b>Coastal Erosion Dte</b>		-	Shifted under P & D Org under RM Wing
<b>External Assistance Dte</b>		<b>RRR of Water bodies &amp; EA Dte</b>	

- Consequent upon merger/renaming of Dtes as above, following transfer/arrangement on additional charge basis is also ordered:
  - Sri Jitendra Panwar, Dir will hold additional charge of ISM-2 Dte. This Dte will function from existing NT (PH) Dte office.
  - Sri Rajiv Kr, Dir will take over the charge of Cost Appraisal-2 Dte. The Dte will function from existing NT (D & G) Dte office.
  - Sri Dinesh Verma, Dir is transferred to Narmada D & HW Dte.
  - Shri S K Rajan, Dir will hold additional charge of PMKSY-AIBP Dte. The Dte will function from existing Narmada Canal Dte office.
  - Sri Sanjay Kr Singh, Dir will take over the charge of FCA-1 Dte.
  - Sri Ramjeet Verma, Dir will take over the charge of RD-2 Dte.
  - Sri H K Meena, Dir will head EM Dte.
  - Sri Anil Jain, Dir will take over the charge of BP-2 Dte. This Dte will function from existing EIA Dte office.
  - Sri D K Jha, Dir will hold additional charge of P&M Dte.
  - Sri Rishi Srivastava, Dir will additional charge of BP-3 Dte. This Dte will function from existing CMC Dte office.
  - Sri Bhupesh Kr, Dir will hold additional charge of Policy & Research Dte. This Dte will function from existing NP-II Dte office.
  - Sri Rajesh Kumar, Dir will hold Addl charge of River Conservation Dte. It will function from existing UT Dte office.
- Three DDs, Six ADs and Three AD-II posts along with other supporting staff of NT(PH); NT (D&G), Narmada Canal Dtes stand transferred to WP & P wing w.e.f. 01.04.2017.
- All respective wings are requested to review the current distribution of officers and Staff and reallocate/rearrange some of the posts within the wing before 01.04.2017, keeping in view of decisions in preceding Paras to make these Dtes functional. Decision taken in the matter may be submitted to undersigned for record and reference purpose.

This OM takes effect from 01.04.2017.



(Anup Kr Srivastava)  
Secretary, CWC



To,

1. PPS to Secretary, MoWR, RD & GR
2. PPS to Chairman, CWC/PPS to Chairman, CEA
3. PPS to all Members of CWC
4. Chairman, GRMB, Hyderabad/KRMB, Hyderabad/GFCC, Patna
5. All Chief Engineers in the field and HQs.
6. PPS to JS (A&GW), MoWR, RD & GR, New Delhi
7. Member Secretary, GRMB/KRMB, Hyderabad
8. Chief Engineer, TCD, CEA, New Delhi/Secretary, CEA, New Delhi
9. General Manager, FBP, Farakka/Secretary, SSCAC, Vadodra
10. The Commissioner, FM/Indus/B&B/State Projects, MoWR, RD & GR, New Delhi
11. Director (Admn.)/Finance/Estt.I/II/III/PCP/TD/RM Coord./D&R Coord./WP&P Coord./RD Dte., New Delhi
12. All SE (C)/Directors in the field office of CWC
13. All Directors in CWC (HQ)
14. Director (Admn), GFCC, Patna/Director (Admn), NWA, Pune
15. Under Secretary (Admn./Estt.1), MoWR, RD & GR, Shram Shakti Bhawan, New Delhi
16. PAO/AO/All US/DD(WPC)/DD(PCP)/DD(P&M), CWC, New Delhi
17. Section Officers, A/c. I/ A/c. II/A/c. III/CM&V/APAR/E.IV/E.XIV/Budget/R&I Section, CWC, New Delhi
18. Copy for uploading on CWC website



## River Management Wing

RM Wing has 15 organisations which are headed by a Chief Engineer, out of which 2 are at HQ and remaining in field. The functions of organisation are performed by a pool of engineers constituting Director/SE; DD/EE; AD/AEE; AD-II/AE and other support staff. Organisational details under RM wing are presented in succeeding Paragraphs.

At CWC (Hq), **River Management Co-Ordination Directorate (RMCD)** is responsible for overall co-ordination of various activities both at HQ as well as with the field under Member (RM), allocation of budget to all the field organizations, review/monitoring of physical and financial achievement in respect of plan schemes/projects, scrutiny and processing of SFC/EFC Memos of various schemes, compilation/preparation and submission of material for performance budget, budget brief, annual reports of CWC and MoWR, annual action plan of CWC and MoWR and material for monthly/quarterly/half yearly/yearly returns and assisting Member (RM) in different administrative and technical matters, co-ordination and monitoring of progress in respect of projects under survey and investigation in India and neighbouring countries and coordination of works related to construction of residential and non-residential buildings for the field offices of RM Wing of CWC. This Directorate will keep watch on the latest development/stress areas particularly in the sphere of River Management; suggest measures for possible realignment of Wings activities/capacity building of its Human resources etc. This Directorate would also submit agenda points for consideration/deliberation of Members in a Commission Meeting. This apart, Dte would also gather Performance Indicators (PIs) & work plans from each Dte/Organization- as the case may be, and highlight areas where intervention of Member (RM) is warranted for raising the performance of RM wing. This Dte will also submit a brief report on significant activities/achievements of the wing to TC Dte on monthly basis.

### **Organizations under RM wing**

#### **1. Flood Management Organization (FMO)**

Chief Engineer, FMO is responsible for techno-economic appraisal of flood management projects and multipurpose projects having flood management

aspects, collection and compilation of flood damage statistics from the States and recommendation for Central Assistance, preparation and issue of daily/weekly flood bulletins during flood season and development and improvement of flood forecasting techniques.

#### **Flood Management (FM) –I Directorate**

FM-I directorate is responsible for Planning & Appraisal of Flood Management, Flood Control, Anti-erosion, River Training Works etc. pertaining to States except Arunachal Pradesh, Assam, Sikkim, Meghalaya, Tripura, Manipur, Mizoram & Nagaland and recommendation to TAC-MOWR; Monitoring of ongoing works and release of funds; compilation of physical and financial progress of ongoing flood management works under Flood Management Programme related to concerned States; Field inspection/ site visits to the newly proposed Flood Control schemes by the States; Standing Committees – Yamuna Standing Committee, Sahibi Standing Committee, Ghaggar Standing Committee and the Committee on special Remedial Works for flood protection along Satluj and Ravi rivers; Compilation/ Publication of Minutes of Meetings of above Standing Committees.

#### **Flood Management-II Directorate**

FM-II Directorate is responsible for assessment of Flood Prone Area in India based on the methodology decided by the Expert Committee on Scientific Assessment of Flood Prone Area in India; Coordination with Member-Secretaries of Regional Committees for Scientific Assessment of Flood Prone Area in the States for obtaining data and other studies done by Regional Committees; Obtaining flood forecasting models developed by P&D Directorate and FCA Directorate and Utilization of developed models for assessment of flood prone area in that basin/sub basin; Obtaining flood forecasting model developed by the Consultants in Ganga basin and its utilization for assessment of flood prone area in Ganga basin.

#### **Flood Management Planning (FMP) Directorate**

FMP Directorate is responsible for Planning & Appraisal of Flood Management, Flood Control, Anti erosion works, River Training Works, promotion of latest state-of-the-art techniques in the field of river training works etc. pertaining to States- Arunachal Pradesh, Assam, Sikkim, Meghalaya, Tripura, Manipur, Mizoram & Nagaland; Compilation of physical and financial progress of ongoing flood management works under



Flood Management Programme related to concerned States; Works related to Brahmaputra Board; River Management Activities & Works related to Border area plan scheme. It will also function as secretariat for Flood Plain Zoning. This Dte will act as Nodal directorate for FMO.

#### **Flood Forecast Monitoring (FFM) Directorate**

FFM Directorate is responsible for Monitoring of Flood situation through Central Flood Control Room and issue of flood situation reports during monsoon period; Annual Flood Forecast Appraisal Report; Coordination with National Disaster Management Authority; Secretariat Services to Chairman, Damodar Valley Reservoir Regulatory Committee (DVRRC); Coordination for installation of telemetry on the sites under field organizations and other works related to Flood Forecasting; Compilation and Publication of state-wise Flood damage Statistics; suggest optimum density of rain gauge network in a basin to upgrade FF activity; undertakes activity like Update and publication of 'Flood Forecasting Manual'; supports NDMA in formulation of Emergency Action Plan with regard to flood induced disasters; initiate linking flood forecast with probable areas likely to come under inundation.

#### **Flood Control Application-1 Directorate**

Flood Control Application-1 Directorate is responsible for development of mathematical models for flood forecasting/inflow forecasting of Indus, Narmada, Tapi and Sabarmati, Brahmani and Baitarni, Subarnarekha, West flowing rivers, Pennar, Krishna, east flowing rivers and Cauvery and its tributaries; Assist FM-II directorate in assessing of Flood Prone Area in the above basins; Coordination for all flood forecasting modeling studies including NHP; This Dte will also set out studies with regard to urban flooding using software like SWMM.

#### **Flood Control Applications (FCA)- 2 Directorate**

Flood Control Applications Directorate is responsible for development of mathematical models for flood forecasting, inflow forecasting and river engineering studies for Ganga, Brahmaputra, Barak Godavari and Mahanadi basins; initiate studies on ensemble forecast; Monitoring of mathematical models being used by CWC field offices for flood forecasting; Assist FM-II directorate in assessing of Flood Prone Area in the above basins.

#### **2. Planning & Development Organisation (P&D)**

Chief Engineer, P&D is responsible for, morphological studies of the rivers; implementation of Hydrology Project, water quality monitoring in the river basins of

India, storage, analysis and retrieval of hydrological data and maintenance of Hydrological Information System (HIS).

#### **Morphology & Climate Change Directorate**

Morphology Directorate is to assist BPMO in water balance studies and integrated basin; to deal with matters involving Inland water way navigation and related matters; Morphological and sedimentation studies of all river basins in the country. It functions to assist National Water Mission (NWM) in pursuance of its short and long-term goals; preparation of physical and financial progress report of various activities identified under National Water Mission; implementation of various strategies under National Water Mission. It will initiate studies relating to impact of Climate change on water resources/crop yield/evaporation rate/glacial retreat etc.; Monitoring of glacial lakes and water bodies including snow melt modeling. **It will also act as Nodal directorate for P&D Organization**

#### **River Data Compilation (RDC) – 1 Directorate**

RDC Directorate is responsible for Maintenance of unmerged cadre of the GBWRO Ministerial Staff viz. Amendment of Recruitment Rules, maintenance of Reservation Roster, Promotion, transfer and posting, grant of financial up gradation under ACP/MACP scheme, fixation of pay, maintenance of the CR folders, VIP references, Court/CAT cases; Standardization of procedures and equipments for hydrological, sediment and water quality observations; matters related to opening of new HO sites/review of continuation of existing HO sites, invitation of Tenders/Procurements for various activities under DWRIS component.

This Dte will also act as nodal unit in CWC to coordinate and advance technical activities of NHP in close coordination with RD-2 Dte to speed up implementation of NHP. Responsible for all tenders/procurements related to NHP.

#### **River Data Compilation (RDC) - 2 Directorate**

The broad objectives of this Dte is to act as a store house of knowledge of latest hydrological observation technique- both in data collection and its validation; to devise standard format for Water Year book holding water level and corresponding discharge data generated after secondary validation; to ensure further consolidation of gains of Hydrology Project-I & II; to focus itself on quality concern of hydro-meteorological



data, preparation of manuals for hydrological observation works. to process and disseminate classified data of Ganga, Indus & Brahmaputra basins to bonafide users following the MoWR guidelines; running and maintenance of National Surface Water Data Centre; periodically bring out or update manuals/ guidelines/ quick start guide to ensure capacity building of our officers engages in data collection activity; publish major findings/trends etc. in WQ parameters, discharge of major river stream, upgradation/degradation of longitudinal profile of river; works towards capacity building of CWC officials; introduces new concept/methods in HO works; providing inputs and assistance to CWC field organisations in carrying out trend analysis of long term river flow data sets, development and validation on regular basis (say annual) of stage discharge relationships; *coordinate activities of the sub-committee SC-1 of TC-113 of ISO on Velocity Area method/BIS matters*; preparation and updating of computerized hydrological database for hydrological sites of CWC on e-SWIS/SWDES; preparation of combined catalogue of meta data of surface water sites, its periodical updating and hoisting of the same on India-WRIS web-site.

#### **River Conservation Dte**

This Dte will act as nodal unit in CWC to coordinate and advance the activities related to NMCG. This Dte will also be the repository of invaluable materials, such as major water resources projects already completed/under construction/contemplated; status of water quality of main stem of river Ganga and its tributaries, and of important water bodies; major pollution contributing Industries/Industrial clusters; no. of Sewage Treatment Plants operational in the basin; status of ground water availability- over exploited or critical zones; best practices across the globe to keep river bodies sustainable, etc. The Dte will also feed its information to India-WRIS team to keep updating/populating relevant pages on the website. This repository helps in informed decision making for implementation of works planned under NMCG. It will strive for developing water quality models for severely/moderately affected river stretches in the basin as well using appropriate soft-tools. It will work in tandem with TC Dte to lift awareness among people in the basin to adopt eco-friendly measures for healthy river eco-system.

Ramsar Convention on wet lands, details of wetland in India covered under it.

Constitutional provision that deal with environment.

Industrial / urban sewage pollution status – linkages with CPCB /SPCB to develop effective monitoring of point and non point pollution.

Coordination of all activities regarding National River Conservation Plan and National Ganga River activity pertaining to Ministry of Water Resources & CWC;

#### **Coastal Management Directorate**

Coastal Management Directorate is responsible for planning & appraisal of coastal erosion schemes; Compilation of Coastal Erosion data of Maritime States; Development of Coastal Management Information System (CMIS); Secretariat to Coastal Protection and Development Advisory Committee (CPDAC); Climate Resilient Coastal Protection & Management Project; Monitoring of externally assisted Sustainable Coastal Protection and Management Investment Projects; Works related to Task force for holistic development of 1200 inhabited/uninhabited Islands; desalination of sea water to augment water resources availability.

Matters related to preparation of report and secretariat work of study of secretariat work of study on salinity ingress in coastal areas,



## Water Projects & Planning Wing

WP&P wing has nine functional organizations, each headed by a Chief Engineer/Advisor, all stationed at CWC (Hq). The functions of organisation are carried out by a pool of engineers constituting Director/SE; DD/EE; AD/AEE/AD-II/AE and other support staff. Organisational details under WP & P are presented in succeeding Paragraphs.

**Director, WP&P coordination** is responsible for review/monitoring of physical and financial achievement in respect of plan schemes, scrutiny/preparation and processing of SFC/EFC Memos of various plan schemes/projects, compilation/preparation and submission of material for performance budget, budget brief, annual reports of CWC and MoWR, annual action plan of CWC and MoWR and material for various monthly/quarterly/half yearly/yearly returns and assisting Member (WP&P) in different administrative and technical matters. This Directorate will keep watch on the latest development/stress areas particularly in policy planning; and suggest measures for possible realignment of Wings activities/capacity building of its Human resources etc. This Directorate would also submit agenda points for consideration/deliberation of Members in a Commission Meeting. This apart, Dte would also collect Performance Indicators (PIs) and work plans from each Dte/Organization- as the case may be, and underscore areas where intervention of Member (WP & P) is warranted for raising the performance of the wing. This Dte will also submit a brief report on significant activities/achievements of the wing to TC Dte on monthly basis.

### **Organizations under WP & P Wing**

#### **1. Basin Planning and Management Organisation (BPMO)**

CE, BPMO is responsible for, preparation of guidelines for formulation of river basin master plan including integrated reservoir operation for deriving optimum utilisation of water resources through multi-disciplinary system approach considering river basin as a unit for water planning, studies related to national perspective plan for water resources development, providing technical assistance to National Water Resources Council, an apex body for formulating policy in water resources sector and serves as secretariat to the

National Water Board. Five engineering Directorates with the following functions are covered under BPMO:-

#### **Basin Planning (BP)-1 Directorate**

Director (BP)-1 is responsible for co-ordination with states for establishing River Basin Organisations as per the directives of National Water Policy, examination of project reports from basin planning point of view, reassessment of water resource potential in the river basins of India, technical and secretarial work for Standing Sub-Committee for assessment of availability and requirement of water for diverse uses in the country. This Dte is to prepare Basin plans/IWRDM of Mahanadi basin or a basin/s as identified for the Dte applying suitable software like e-Water/RIBASIM or WEAP. This will actively engage itself in generating scenarios for future for basin under its study. This Dte will develop Quick Start Guide/Application Guide/ User guide to help CWC officials learn new soft techniques quickly to finish water availability assessment within a predefined timeline. It will also engage itself in capacity building of field units in accomplishing the goal of reassessment of water potential with the help of other Dtes.

#### **Basin Planning-2 Directorate**

Director (BP)-2 is responsible for co-ordination with states for establishing River Basin Organisations as per the directives of National Water Policy, examination of project reports from basin planning point of view, reassessment of water resource potential in the river basins of India, technical and secretarial work for Standing Sub-Committee for assessment of availability and requirement of water for diverse uses in the country (as assigned to it by Member (WP & P)). Will prepare Basin plans/IWRDM of Godavari basin or basin/s marked for this Dte using suitable software like e-water/RIBASIM or WEAP. Will actively engage it in generating scenarios for future.

#### **Basin Planning-3 Directorate**

Director (BP)-3 is responsible for co-ordination with states for establishing River Basin Organisations as per the directives of National Water Policy, examination of project reports from basin planning point of view, reassessment of water resource potential in the river basins of India, technical and secretarial work for Standing Sub-Committee for assessment of availability and requirement of water for diverse uses in the country. Will prepare Basin plans/IWRDM of Krishna basin or a basin/s as identified for the Dte applying



suitable software like e-Water/RIBASIM or WEAP. It will also associate itself with basin planning activities being carried out by World Bank for Ganga basin.

#### **National Water Planning (NWP) Directorate**

Director (NWP) is responsible for providing assistance to *National Water Resources Council* (NWRC) and acts as **technical secretariat to National Water Board (NWB)**-formed in 1990, preparation of annual status report on irrigation development through major and medium projects under tribal sub-plan and special component plan, studies related with National Perspective Plan for water resources development, examination of various proposals for water resources, utilisation and water transfer links and functions as a nodal directorate in Central Water Commission for National Water Development Agency (NWDA) and liaisons with NWDA on specific references and studies including examination of water balance studies, pre-feasibility reports and feasibility reports. This Dte is tasked to compile scenarios generation reports of basins prepared by BP-1, 2 & 3 Dtes, and place before NWB for its deliberations.

It will also focus on matters related to preparation of short, medium and long-term vision of the Ministry etc., to be raised in National Water Board,, National water framework law and views of CWC, Interlinking of Rivers- Indian perspective vis-à-vis world experience; from Policy Research and Strategic Planning point of view.

#### **Reservoir Operation (RO) Directorate**

Director (RO) is responsible for, simulation studies for integrated operation of reservoirs using software like HEC-ResSim or any other compatible software for this purpose, preparation of Reservoir Regulation Manual, co-ordination of activities of interstate committees on reservoir regulation and operation, standardising activities in the field of reservoir regulation, operation and other related aspects and acts as a nodal directorate for activities of Indian Water Works Association; to look into the work of development of models for medium range forecasting for major river systems using rainfall as an input and operationalizing it as a dynamic tool to provide assistance to States in planning their resources in ensuing periods.

It will also focus on matters related to present and distant Water resources scenario in India, and even abroad, possible measures to overcome stress in the

sector etc. from Policy Research and Strategic Planning, point of view.

#### **2. Central Mechanical Organisation (CMO)**

Chief Engineer (CMO) is responsible for, equipment planning for project construction as a part of project appraisal, maintaining a national directory of spare earth moving and other equipments available with various projects so as to ensure their utilisation by other needy projects and matters related to technical documentation including printing press and publicity. This unit also provides secretarial services for the Executive Committees of Bansagar and Rajghat Control Boards, which are headed by the Chairman, CWC. Three engineering Directorates are functioning under CMO and their functions are as under:-

##### **Construction Machinery Consultancy and Plant & Machinery Directorate**

This Dte is responsible for, providing consultancy/assistance in project preparation including cost estimates, assistance in procurement of construction equipment, techno-economic appraisal of project reports, performance evaluation of construction equipment, examination of technical bids for construction of civil components of the project with reference to equipment planning & deployment and assistance to Bureau of Indian Standards. It is responsible for, construction, equipment planning and techno-economic appraisal of projects; providing assistance to projects/states in procurement and disposal of heavy earth moving and construction equipment by way of tender evaluation, fixing reserve price/transfer value of equipment, rehabilitation of surplus equipment, settling claims of major construction agencies by finalising hire charges of equipment, rate analysis of specific item of work etc.; monitoring of utilisation of heavy earthmoving and construction equipment deployed at various major irrigation and hydropower projects; collection, compilation and updating of data on census of heavy earthmoving construction and tunnelling equipment in Water Resources Sector in the country; assisting Manpower Planning Cell in studies to assess technical manpower requirement and its balanced utilization in construction and during operation and maintenance of major/medium irrigation and multipurpose projects.

##### **Technical Documentation (TD)**

Director (TD) is responsible for publication of various journals, pamphlets, publicity and mass awareness



material for media, printing of various publications of CWC and MoWR, microfilming of drawings/documents and their preservation and printing and developing of Azo prints.

### **River Board Directorate**

Director (RB) is responsible for, providing support to Chairman, CWC for matters related to his participation in various river Board / Committees formed for project construction / management, matters related to contractual cases and assisting Chief Engineer, CMO, who is Member of Permanent Standing Committee of Sardar Sarovar Construction Advisory Committee.

### **3. Environmental Management Organisation (EMO)**

Chief Engineer, EMO is responsible for, Environmental Impact assessment (EIA) and monitoring of implementation of environmental safeguards in water resources projects, rehabilitation & resettlement of project affected people, reservoir sedimentation including watershed management and application of remote sensing techniques in water resources development and management.

Three Directorates are functioning under EMO and their functions are as under:-

#### **Environment Management (EM) Directorate**

The Dte is responsible for, examination of environmental impact assessment reports received from the Ministry of Environment & Forests (MOEF) and offering comments/suggestions at Expert Committee (EC) meeting of MOEF for environmental clearance (Chief Engineer (EMO) is a member representing, CWC), preliminary screening of projects from environmental angle before taking it for detailed examination in CWC, conducting environmental evaluation/impact assessment study of some selected projects, assisting Chief Engineering (EMO) in his functions in the capacity of Chairman of Technical Advisory & Review Committee related to Environmental Impacts Assessment and Socio-Economic Study of Pancheshwar multipurpose project, facilitating forest clearance from MOEF, participating in Forest Advisory Committee meetings and examination of references from MOEF/MOWR for funding of environment related project proposals of NGOs. It is responsible for, monitoring of implementation of environmental safeguards for river valley projects through Multidisciplinary - Inter-Ministerial National Environmental Monitoring

Committee for River Valley Projects (NEMCRVP), State Environmental Monitoring Committee and Project Environmental Management Committees, organizing meetings of NEMCRVP and drafting of various standards under WRDC - 23 (Assessment and Management of Environmental Impacts of River Valley Project). It is also responsible for, looking after the rehabilitation and resettlement aspects for affected persons of reservoir projects, assistance in formulation of National Rehabilitation and Resettlement Policy (Ministry of Rural Development), application of guidelines for preparation of rehabilitation and resettlement action plan as well as maintenance of related database, examination of rehabilitation and resettlement aspects and action plans for multipurpose/irrigation projects referred by the States and Union Territories and on the spot assessment of resettlement sites of the reservoir projects for appraisal of implementation of R&R policies formulated by States/Project Authorities. *The directorate also deals with the matters pertaining to minimum flow/environmental flow.*

#### **Remote Sensing Directorate**

Director (RS) is responsible for application of Remote Sensing and GIS Techniques in water resources sector, collection, collation and analysis of spatial data using GIS techniques, capacity building in application of spatial data technology for water resources development and management, participation in the activities of National Natural Resources Management System (NNRMS) in relation to water resources development and management and coordination with ISRO, NRSA and other space agencies regarding application of spatial data technology, advising the state irrigation departments and MoWR in issues related to application of spatial data technology in the water resources development and management. This Dte will also act as nodal Dte for pursuing the activities of National Water Informatics Centre (NWIC) besides populating and constantly updating India-WRIS web-site; *Integrating State WR data/State WRISs with India-WRIS, developing uniform data protocols for WRIS data so as to achieve consistency in the multi-agency data, etc.*

#### **Watershed and Reservoir Sedimentation Directorate**

Director (WS&RS) is responsible for, collection and compilation of sediment data of various reservoirs in the country and updating compendium prepared earlier, conducting hydro-graphic survey of important



reservoirs in the country, assisting Project Authorities/State Governments in matters connected with hydro-graphic surveys, sediment control measures, sediment measurement techniques, assessment of sedimentation rates/sediment trap efficiency in Indian reservoirs for better future planning etc., coordination with Ministry of Agriculture on Soil Conservation or Enhancing Productivity of Degraded Lands in the catchments of River Valley Projects and Flood Prone rivers (RVP & FPR) under Macro Management and preparation of status report on Watershed Management and Water Harvesting. Additionally, activities of Indian National Committee of Surface Water (INCSC) will also be handled by this Dte.

#### **4. Irrigation Management Organisation (IMO)**

Chief Engineer (IMO) is responsible for, irrigation planning including crop water requirements and water availability aspects of irrigation projects as a part of project appraisal, irrigation water management aspects, examination of projects from interstate angle including providing assistance to Ministry of Water Resources in resolution of interstate water disputes, monitoring of reservoir storage position of important reservoirs as an important component of irrigation water management and issue of weekly bulletins to user agencies. A separate bulletin showing daily storage status of reservoirs in Cauvery basin is also being issued. Five Directorates are functioning under IMO and their functions are as under:-

##### **Irrigation Planning (North) Directorate**

Director (IP-N) is responsible for, carrying out technical scrutiny/appraisal of basic planning and irrigation planning aspects including economic viability of major irrigation and multipurpose water resources development projects including ERM projects for the northern states namely Haryana, Punjab, Himachal Pradesh, Rajasthan, J&K, Uttarakhand and Uttar Pradesh; examination of water balance studies and feasibilities report of the above mentioned five states prepared by NWDA. Dte will also promote among stakeholders the use of e-tools like CROPWAT/CLIMWAT developed by Food and Agriculture Organization (FAO) for estimation of crop water requirement as per cropping pattern practiced/proposed in command area.

##### **Irrigation Planning (South) Directorate**

Director (IP-S) is responsible for, technical scrutiny/appraisal of basic planning and irrigation planning aspects including economic viability of major

irrigation and multipurpose water resources development projects including modernization projects of States other than covered by IP (North Dte); examination of water availability aspects of hydel, thermal and other power projects and water balance studies and feasibilities report prepared by NWDA of States other than covered by IP (North Dte). It is also nodal Directorate for beneficiaries Participation Programme and studies for assessing the irrigation benefits and allocation of cost between irrigation and power sectors in respect of multipurpose projects. Dte will also promote among stakeholders the use of e-tools like CROPWAT for estimation of crop water requirement as per cropping pattern practiced/proposed in command area.

##### **Inter-State Matters (ISM) Directorate -1**

Director (ISM)-1 is responsible for, matters relating to inter-state water disputes, court cases tribunal awards, agreements etc. as well as assisting the Ministry of Water Resources in these matters, secretariat works pertaining to Cauvery Supervisory Committee/Babhali Barrage on river Godavari, Formulation / review of various existing and proposed constitutional provision / water related acts/laws in the country, examination of major and medium irrigation and power projects from interstate angle including NWDA reports referred to Central Water Commission, preparation of guidelines for allocation of surface waters of interstate rivers, work relating to various zonal council meetings and documentation of various interstate and international agreements and tribunal awards, water laws/water rights etc. This Dte will cover matters pertaining to basins other than assigned to ISM Dte-2. This Dte will be repository of all legal instruments/issues pertaining to water sector.

##### **Inter-State Matters (ISM) Directorate -2**

- Director (ISM)-2 is responsible for, matters relating to inter-state water disputes, court cases tribunal awards, agreements etc. as well as assisting the Ministry of Water Resources in these matters, examination of various existing and proposed water laws in the country, examination of major and medium irrigation and power projects for Ganga, Indus and Brahmaputra basins from interstate angle including NWDA reports referred to Central Water Commission, finalisation of guidelines for water allocation of inter-state rivers; sharing of Yamuna water between UP & Uttaranchal, work relating to various zonal council meetings, documentation of



various interstate and international agreements and tribunal awards, water laws/water rights etc. It will also deal with matter related to international laws dealing with trans-boundary rivers; international treaties with neighbouring countries; water issues in United Nation; cooperation with other countries in water sector and burning issues related to Centre-State relationship,

#### **Water Management (WM) Directorate**

Director (WM) is responsible for, monitoring of reservoirs levels and storage capacity of important reservoirs, issue of status bulletins thereon and compilation of storage behaviours of important reservoirs of the country and issue of weekly bulletins in respect of five important reservoirs of Cauvery Basin. It also acts as a nodal Directorate for coordinating the works of ICAR - CWC joint panel and the activities related to IWRA (International Water Resources Association). The Dte will strive to increase the numbers of reservoirs being monitored progressively. Historical as well as current data to be integrated with India WRIS, Drought monitoring and management, urban and rural drinking water supply scenario,

Coordination with CGWB regarding G.W. development scheme. Legal aspects of ground water, GW scenario across the country – flagship program of the ministry and its likely impact on WR sector.

#### **5. Project Appraisal Organisation (PAO)**

Chief Engineer (PAO) is responsible for, examination of techno-economic viability of multipurpose as well as major and medium irrigation projects, appraisal **the civil component, water availability** and inter-state aspects of hydro as well as thermal power project proposals received from Central Electricity Authority and presenting the viable and eligible Irrigation, Flood Control and Multipurpose Projects to the Technical Advisory Committee (TAC) constituted by the MOWR, for recommendation for investment clearance by the Planning Commission. Six engineering Directorates are functioning under PAO and their functions are as under:-

#### **Project Appraisal (Centre) Directorate**

Director PA (C) is responsible for appraisal of preliminary/detailed project reports pertaining to major inter-state project proposals in respect of Maharashtra, Madhya Pradesh, Rajasthan, Gujarat, Assam and Goa.

#### **Project Appraisal (North) Directorate**

Director (PA-N) is responsible for appraisal of preliminary/detailed project reports pertaining to major inter-state project proposals in respect of Bihar, Jharkhand, Uttar Pradesh, Uttaranchal, West Bengal, Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir and Delhi, convening meetings of the screening committee to decide viability of projects for taking up detailed examination, convening meetings of the Advisory Committee on irrigation, flood control and multipurpose projects.

#### **Project Appraisal (South) Directorate**

Director (PA-S) is responsible for appraisal of preliminary/detailed project reports pertaining to major inter-state project proposals in respect of Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Orissa, North-Eastern states (except Assam) and Sikkim.

#### **Cost Appraisal (HWF) Directorate**

Director (HWF) is responsible for scrutiny of cost estimates of hydel, water supply and flood control projects.

#### **Cost Appraisal (Irrigation) -1 Directorate**

Director (CA-I1) is responsible for scrutiny of cost estimates of major national & international irrigation and multipurpose projects originating from northern States namely States of NE region, Bihar, Chandigarh, NCT of Delhi, Gujarat, Haryana, HP, J & K, Jharkhand, Punjab, Rajasthan, UP, Uttarakhand, & West Bengal.

#### **Cost Appraisal (Irrigation)-2 Directorate**

Director (CA-I2) is responsible for scrutiny of cost estimates of major national & international irrigation and multipurpose projects originating from Southern States not covered by CA-I1 Dte.

It will further support field units/State Govt. in preparation of DPR of various Multi-purpose projects. The Dte will be an apex unit under PAO who not only extend necessary help/input to field formation/project authorities but also conduct pre/Mid-term DPR meeting with stakeholders, or act proactively to minimize delay in appraisal/clearances of DPR. This aside, this Dte will find out knowledge gaps/technological gaps, and take steps of capacity building of personnel through training Dte of CWC/NWA, Pune. Will also come out with model DPR format/template to be adopted by CWC field units/States authorities/Private sector entities. Will also



engage itself in update of DPR guidelines as and when it is felt essential.

Forward approach to strengthen / improve centre-state relationship so as to push implementation of multipurpose project.

#### **6. Project Preparation Organisation (PPO)**

Chief Engineer (PPO) is responsible for, co-ordinating with World Bank and other lending agencies which are providing financial support to irrigation and multipurpose projects and water resources consolidation/restructuring projects, appraisal for their techno-economic viability of projects for external funding and monitoring of their progress of implementation, providing assistance to the State governments in preparation of projects as per the stipulation laid down by Government of India and the lending agency. *It is also responsible for appraisal & monitoring of National projects.* Three Directorates are functioning under PPO and their functions are as under:-

##### **Water Bodies & Economics Directorate**

This Dte is responsible for appraisal & processing / preparation of comments/ observations on the DPR/proposals of various state govts., received from the Regional offices / Field units of CWC under the scheme Repair, Renovation & Rehabilitation (RRR) of Water Bodies during the XII Plan, processing and recommendation of the proposal to MoWR, RD&GR for the release of the 1st instalment/ 2nd instalment for the water bodies which were approved / included during XI/XII plan scheme of RRR of Water Bodies and prepare a model DPR format for RRR schemes.

The directorate will also deal in Water Pricing aspects, namely, Guidelines for Determination of water pricing for various uses, Status of water pricing in the country and Guidelines for volumetric measurement of water for pricing etc.

##### **External Assistance (EA) Directorate**

Director (EA) is responsible for appraisal and monitoring of externally aided major and medium irrigation projects, organizing & conducting review meetings of externally aided major and medium irrigation projects, participating in supervision/mid-term/special/ implementation review missions of external funding agencies, such as the World Bank, Asian Development Bank, Japan International Cooperation Agency (JICA) etc.; participating in review meetings of Ministry of

Water Resources and Department of Economic Affairs, MOF, reviewing quarterly progress and status reports on externally aided projects and preparing technical reports/notes, review aid – memoirs/supervision reports/desk review reports of funding agencies, and providing assistance to the State Govts. For preparation of project proposal for obtaining external assistance for Water sector projects. It also conduct Screening Committee meeting for selection of arbitrators for the panel of arbitrators maintained in the CWC for examining disputes arising out of the works contracts between states and the contractors and nominating arbitrator for the Board of Arbitrators for the purpose.

##### **National Projects Directorate**

Director (NP) is responsible for appraisal and monitoring of national projects, and it works as the Secretariat of High Power Steering Committee for implementation of National Projects.

#### **7. Project Monitoring Organisation (PMO)**

Chief Engineer (PMO) is responsible for monitoring projects at central level under the aegis of three tier monitoring system recommended by the State Irrigation Ministers in the conferences of 1975 & 1976. PMO monitors inter-state/externally assisted/centrally sponsored projects with the objective of their timely completion, preparation of state-wise annual report on irrigation development through major and medium projects. The PMO along with field monitoring units of CWC monitors projects receiving central loan assistance (CLA) under normal and fast track Accelerated Irrigation Benefit Programme (AIBP) launched by MoWR in 1996-97. The PMO is responsible for capacity building efforts for implementation of PMKSY-AIBP-CADWM & other schemes of MoWR. Seven Directorates are functioning under PMO and their functions are as under:-

##### **Monitoring Directorates**

Director (Monitoring) is responsible for, monitoring of selected major/multipurpose irrigation projects and preparation of status reports of monitored projects, preparation of state-wise annual reports on irrigation development, co-ordination with CWC field units/MoWR/Planning Commission in respect of monitoring activities for projects under general & AIBP monitoring and scrutiny of proposals for CLA under AIBP and sending recommendations for sanction/release of CLA to the Ministry of Water Resources. State-wise distribution of states under Monitoring directorates is given below:



Directorates	Distribution of States
Monitoring (Central)	M.P., Chhattisgarh, Maharashtra and Goa states
Monitoring (East)	Assam, Bihar, Jharkhand, Tripura, Manipur, Meghalaya, West Bengal, Sikkim, Arunachal Pradesh, Mizoram and Nagaland states
Monitoring (North)	UP, Uttaranchal, Haryana, J & K, Delhi and Himachal Pradesh states
Monitoring (South)	A.P., Orissa, Tamil Nadu, Kerala, Karnataka, U.T. of Pondicherry, Andaman and Nicobar and Lakshadweep
Monitoring (West)	Gujarat, Rajasthan, Punjab, U.T. of Dadra & Nagar Haveli, Daman & Diu, Chandigarh

#### **Planning and Progress (P&P) & CAD Directorate**

Director (P&P) is responsible for updating of compendium of major and medium irrigation projects, providing assistance to working group constituted by the Planning Commission in formulation of five year plan proposals for major & medium irrigation programme, preparation of status report on irrigation development in the country (major and medium irrigation sector) including maintenance of data base on IPC & IPU and updation of state-wise index maps showing Major & Medium irrigation projects, coordination with MoWR and Field Units of CWC in respect of matters related to monitoring of projects under CAD programme. It shall promote PIM and formation of WUAs in the States / UTs by developing linkages with WALMIs/IMTIs. Besides, this Directorate is entrusted with the co-ordination work of undertaking the Pilot Census of the Major & Medium Irrigation projects to be conducted in two phases during the 12th Plan under the Plan Scheme of DWRIS.

#### **PMKSY- AIBP Directorate**

This Dte will act as nodal unit in CWC to coordinate and advance the activities related to PMKSY-AIBP. This Dte will also be the repository of invaluable materials vital to influence decision for well coordinated implementation of works planned under PMKSY. The Dte will also bring out detailed guidelines regarding prioritization of

Irrigation projects for funding by various agencies on the pattern suggested by NCIWRD in 1998. Will assist CE, PAO in his role as Member Secretary, Executive Committee, PMKSY.

#### **8. Performance Overview & Management Improvement Organisation (POMIO)**

Chief Engineer (POMIO) is responsible for, the Performance evaluation and water use efficiency studies of completed irrigation projects through consultants; water logging, soil salinity and alkalinity assessment with remedial measures in MMI commands; scrutiny of the drainage projects proposals; promotion of Water Audit, Benchmarking, PIM, WUAs in the States and UT by developing linkages with WALMIs/IMTIs and rendering expert assistance to the National Water Mission. Functions of directorates under POMIO are functioning under POMIO and their functions are as under:-

#### **Evaluation of Water Utilisation (EWU) Directorate**

Director (EWU) is responsible for identification and analysis of problems of under-utilization of created irrigation potential, Performance Evaluation Studies of completed irrigation projects through Consultants, which shall include assessment of water use efficiency, IPC-IPU Gap diagnosis, environmental, socio-economic, agro-economic & BC ratio. It shall assess water logging, soil salinity and alkalinity in MMI commands including remedial measures. It shall scrutinize the research proposals received through INCSW and discharge secretariat functions for special committee on drainage.

It will also act to promote advanced irrigation techniques over traditional ones; irrigation scheduling after determination of crop water requirement by single or dual crop coefficient method using Penman Monteith formula as recommended by FAO.

Water saving technique in thermal power units – by switching from open loop to close loop cooling system etc.

#### **Irrigation Performance Overview (IPO) Directorate**

Director (IPO) is responsible for preparing and revising guidelines for various studies related to major and medium irrigation projects. It is also responsible for conducting water use efficiency of selected completed irrigation projects. It shall promote Water Audit and Benchmarking, in the States / UTs by developing linkages with WALMIs/IMTIs. It shall scrutinize Water use efficiency studies carried out by various agencies. It



shall render expert assistance to the National Water Mission through examination of the inception, draft and final reports of the Baseline WUE Studies being conducted by the Mission. Documentation, dissemination as well as promotion of best irrigation / agricultural practices in the country and related matter.

#### **Policy & Research Directorate**

This Dte will focus/coordinate on matters related to policy, strategic planning and research in field of water resources development and management. Key activities of this Dte are:

- Identification and coordination of action /policy research in water resources sector, MoUs for collaboration with national/ international organizations/institutions,
- preparing and reviewing strategic vision document for the sector as well as CWC
- Devising strategic policy interventions needed for ensuring water security in the country, optimal and efficient utilisation of waters resources in the country
- strategic planning for implementation of prioritised schemes, policy framework etc

Additional task of this Dte is to handle/coordinate grievances of technical natures received through CPGRAMS/PMO/Ministry.

#### **9. Information System Organisation (ISO)**

Advisor (ISO) is responsible for collection, compilation and update of water related statistics, hydrological data for all non-classified basins and dissemination thereof. This organization shall closely interact with India-WRIS team to get its publication/Statistics hosted on the India-WRIS site. Two Directorates are functioning under ISO and their functions are as under:

#### **Water Resources Statistics (WRS) Directorate**

It is responsible for compilation and updation of water and related information from different agencies and dissemination thereof through the following publications.

- I. Water and Related Statistics, biennial publication
- II. Water Sector at a Glance, biennial publication
- III. Handbook on Water and Related Information, annual publication

#### **Hydrological Data (HD) Directorate**

It is responsible for compilation and updation of hydrological data pertaining to discharge sedimentation and water quality data in respect of non-classified basins only and dissemination thereof. Besides, this directorate is responsible for updation of the information pertaining to financial aspects of irrigation projects, water pricing in irrigation sector etc. The following publications are brought out by this directorate.

- I. Integrated Hydrological Data Book, biennial publication
- II. Financial Aspects of Irrigation Projects in India, quin-quennial publication
- III. Financial Aspects of Flood Control & Anti Sea Erosion and Drainage, quin-quennial publication
- IV. Pricing of Water in Public System in India, quin-quennial publication.



## Design & Research Wing

D&R wing has six functional organizations each headed by a Chief Engineer. The functions of the organizations are further looked after by various Directorates, each headed by a Director who is assisted by DD, AD/EAD and other supporting staff.

**D&R Coordination Directorate** is responsible for review/monitoring of physical and financial achievement in respect of plan schemes, compilation/preparation and submission of material for Annual Reports of CWC and MoWR, material for various monthly/quarterly/half yearly/yearly returns and assisting Member (D&R) in different administrative and technical matters. Monthly review of status of Technical Examination of DPRs under various organizations of D&R Wing. This Directorate would keep watch on the latest development/stress areas particularly in Design of Dams/Hydro-Power Projects/Hydrology/Dam safety; and further compile details of in-house research or by any other agency on the basis of recommendations submitted by the Committee on Civil and Hydro Mechanical Designs. Suggest measures for possible realignment of Wings' activities/capacity building of its Human resources etc. This Directorate would also submit agenda points for consideration/deliberation of Members in a Commission Meeting. This apart, Dte would also gather Performance Indicators (PIs) and work plans from each Organization and highlight areas where intervention of Member (D & R) is warranted for raising the performance of D & R wing. This Dte would also submit a brief report on significant activities/achievements of the Wing submitted by various Organisations of D&R Wing to TC Dte on monthly basis.

A Committee on Civil and Hydro Mechanical Designs has been constituted with the approval of Chairman, CWC under the chairmanship of CE (E & NE) and represented by all Chief Engineers of D&R Wing to discuss analysis, design, methodologies etc., related to special problems /issues being faced by any Unit/Directorate of D&R Wing for arriving at a most suitable technical solution, to promote publishing of technical papers in seminars/conferences etc., along with the other issues as per terms of reference of O.M. No. 16/3/2015-Trg./1522-1642 dated 18<sup>th</sup> May, 2016. The Committee would deliberate on the details on latest

development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and areas of Research and recommend areas- priority-wise doing in-house research/by other agencies and submit recommendations to D&R Coordination Directorate for apprising Member (D&R).

Brief description of the organizations located at HQ is given below:

### Designs Organisations

There are four design organisations, viz. Designs (North-West & South), Designs (North & West), Designs (East & North-East) and Narmada Basin Projects organisations under D&R wing. Design organisations generally perform the following functions in the respective states/projects under their jurisdiction:-

- Planning and Design Consultancy including finalisation and approval of detailed designs, drawings, specifications of various components of Construction stage Projects, DPR stage projects, (for which Detailed Project Reports are being prepared)
- Rehabilitation measures of existing projects, technical advice to Projects/State Authorities in respect of specific issues referred to CWC.
- Technical Examination of Detailed Project Reports (DPRs) and Pre-feasibility Reports (PFRs) of Hydro Electric Projects (HEP) / Multi Purpose Projects (MPP) / Irrigation Projects / Flood Control Projects (FMP).
- Latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects/Hydrology/Dam safety.
- Identifying areas of research in the sphere of activities, carrying out research in house/ by other agencies.
- Assisting BIS in formulation/amendment of codes for WRD Projects.
- Research component D&R Wing is an integral part of the design of the projects. Experience gained during /after the execution of the project is the basis of the modification/improvement in the prevalent design methodology. This input is also given to BIS codes through the WRD Committee meetings to modify the relevant clauses in the codes. Technical papers on the



relevant subjects are also contributed by this Wing in this regard.

### **1. Design (NW&S) Organisation**

Design (NW&S) organisation has been providing preliminary and detailed design consultancy services to various water resources projects in the 12 states of the country from northwest and south regions of India i.e. Kerala, Andhra Pradesh, Karnataka, Tamilnadu, Maharashtra, Madhya Pradesh, Odisha, Chhattisgarh, Gujarat, Rajasthan, Goa and Andaman Nicobar Island. Outside India, it deals with the Projects of Myanmar, Sri Lanka and African countries, assigned to this unit. Besides design consultancy, this unit looks after other works such as attending to special problems of projects, technical appraisal of Detailed Project reports (DPR) and Pre feasibility Reports (PFR) of various projects of the concerned states, assisting BIS in preparation of Design standards, as member of various BIS committees, preparation of Design Manuals/Guidelines, pamphlets etc. The Organisation would keep a watch on latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and identify areas of Research in the sphere of activities and carry out research in house/ by other agencies. A brief note on five directorates under Designs (NW & S) is given below:

#### **Hydel Civil Design (HCD) Directorate**

Hydel Civil Design (NW&S) Directorate, CWC has been entrusted with the responsibility of examining Hydro civil aspect of various projects being submitted by Central and State Agencies apart from acting as Review consultant for the referred project. In addition, Design and Drawings for the Special problems being faced by Project authorities are also being carried out in this Directorate. As for BIS works, Director, HCD(NW&S) Dte is Principal Member of CED 54 " Concrete Reinforcement", and Principal Member of CED 56" Hill Area Development Engineering". In addition, nodal directorate works are also carried out by this directorate.

#### **CMDD Directorate**

This Directorate has the following main functions:

- (a) Designing civil components of Concrete & Masonry dams, diversion and appurtenant structures. ;(b) Technical examination of Detailed Project Reports (DPR) of Water Resources Projects.; (c) Special problems during construction and post construction period including rehabilitation of dams. As for BIS Works:

Director CMDD (NW&S) is associated with the following committees of BIS:

- a) Principal Member of WRD-9 "Dams and Spillways"; b) Alternate Member of CED 2 "Cement and Concrete Sectional Committee"; CED2.1 "Cement, Pozzolona and Cement Additives Sub-Committee"; CED 2.2 "Panel for revision of IS-457". Nodal Office of Civil Engineering Division Council (CEDC).

#### **Embankment Directorate**

This directorate has the following main functions:

- a) Designing civil components of Rock fill & Earth dams, diversion and appurtenant structures.
- b) Design aspects of new projects referred by state governments / public sector undertakings / centrally sponsored projects for technical examination.
- c) Assistance to the Bureau of Indian Standards in the preparation of various Indian Standards pertaining to river valley projects.
- d) Special problems during construction and post construction period including rehabilitation of dams.

As for BIS WORKS; Director, Embankment Dams (NW&S) Directorate is Principal Member of WRD 25 – BIS Committee on Geo-synthetics Alternative Member of BIS Committee CED 37 i.e. on Standardization in the field of Structural Safety including Loading Standards.

#### **Gates Design Directorate**

This Directorate has been providing preliminary and detailed design consultancy services in respect of hydro-mechanical equipments to various water resources projects of the country. Besides design consultancy of new projects, consultancy services are also being rendered to the various special problems of existing projects referred to CWC by State governments. Technical appraisal of projects in respect of future projects is also being carried out and comments are being offered for improvements to be made in detailed project reports. Other works include preparation of manuals & pamphlets, assistance to Bureau of Indian Standards (BIS) in preparation of Codes etc. As regards BIS Works, Director, Gates Design (NW&S) Directorate is entrusted to the works relating to formulation/ review / amendments of Indian standards under CED-7 & WRD-12 as assigned by BIS.

#### **BCD Directorate**

BCD (NW&S) Dte CWC has been entrusted with the responsibility of examining barrage and canal aspects of



various projects reports, being submitted by various central and state agencies (12 states from northwest and south regions) apart from acting as review consultant/consultant for the referred projects. In addition, design and drawings for the special problems being faced by project authorities are also being carried out in this Dte. . This Directorate would coordinate the activities of the Organisation for keeping a watch on latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and identifying areas of Research in the sphere of activities and carrying out research in house / by other agencies by respective directorates by holding regular organization meetings in this regard and informing the details to the Committee on Civil and Hydro Mechanical Designs. This Directorate would submit agenda points to D&R Coordination Dte for consideration/deliberation of Members in a Commission Meeting. Suggest measures for possible realignment of Organization activities/capacity building of its Human resources etc.

## **2. Design (N&W) Organisation**

Design (N&W) organisation is responsible for planning and design consultancy of various components of construction stage Projects, DPR stage projects, rehabilitation measures of existing projects and technical appraisal of DPR of HEP / MPP / Irrigation Projects pertaining to Northern and Western States of India i.e. 9 states of Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Delhi, Uttarakhand, Uttar Pradesh, Bihar and Jharkhand of the country as well as neighbouring countries like Nepal and Afghanistan. The works also include preparation of joint detailed project reports for Indo-Nepal Project and assisting Indus Water Commission, MOWR, RD & GR on works related to Jammu & Kashmir Projects. Apart from above, the directorates of this unit is actively engaged in providing assistance in preparation of IS Codes.

Besides the above work, the unit deals with the technical references as and when referred by the project authorities.

The Organisation would keep a watch on latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and identify areas of Research in the sphere of activities and carry out research in house/ by other agencies.

A brief note on five directorates under Designs (N & W) is given below:

### **Hydel Civil Design (HCD) Directorate**

HCD Directorate is engaged in, providing preliminary and detailed design consultancy services for civil design components of various hydro-electric projects, evaluation and vetting of specifications, technical aspects of hydro-electric projects, attending to special problems of projects, technical appraisal of DPR/PFR of various projects of the concerned states in respect of hydropower component and assisting BIS in preparation of design standards in respect of hydro power components. The residual work, if any, in respect of NT (PH) Dte. engaged in providing detailed design and engineering consultancy services including evaluation of tender documents on technical aspects and vetting of technical specification for hydel civil components of NTPC projects, i.e. Tapovan Vishnugad H.E. Projects in Uttarakhand will be dealt by this Directorate.

### **CMDD Directorate**

CMDD Directorate is engaged in, designing of gravity dams, sluice and its related components for river valley projects, vetting of designs and drawings prepared by other agencies, suggesting rehabilitation measures for concrete and masonry dams, technical examination of DPR/PFR of major projects in respect of gravity dam component, providing solution for special problems of projects and assisting BIS in preparation and revision of codes for gravity dams and related structures. This Directorate would coordinate the activities of the Organisation for keeping a watch on latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and identifying areas of Research in the sphere of activities and carrying out research in house / by other agencies by respective directorates by holding regular organization meetings in this regard and informing the details to the Committee on Civil and Hydro Mechanical Designs. This Directorate would submit agenda points to D&R Coordination Dte. for consideration/deliberation of Members in a Commission Meeting. Suggest measures for possible realignment of Organization activities / capacity building of its Human resources etc.

### **Embankment Directorate**

Embankment directorate is engaged in, design of earth/rock fill dam, tailing dams and their appurtenant structures, diversion structures and other components of dams, technical examination of embankment design aspects of PFR/DPR, assisting BIS in the preparation of various Indian Standards pertaining to river valley



projects (embankment dams) and providing solutions to special problems referred by the State Govts. / Other agencies.

#### **Gates Design Directorate**

Gates Design directorate is providing preliminary and detailed design consultancy in respect of hydro mechanical structures such as gates, hoists etc. which include preparation of technical specifications, scrutiny of manufacturer's design and drawings and solution to special problems referred from time to time, technical appraisal of major projects and assisting BIS in preparation of relevant codes. The residual work, if any, in respect of NT(D&G) Dte., engaged in providing detailed design and engineering consultancy services including evaluation of tender documents on technical aspects and vetting of technical specification for dam and hydro-mechanical components of NTPC projects, i.e. Tapovan Vishnugad H.E. Projects in Uttarakhand will be dealt by this Directorate.

#### **BCD Directorate**

BCD directorate is providing consultancy in respect of planning & design of barrages, weirs, canals, canal falls, canal structures, cross drainage works required for irrigation, water supply and multipurpose projects, providing solution to special problems/rehabilitation works for various projects, technical examination of DPR/PFR in respect of barrages and different components of canal and assisting BIS in preparation of relevant codes.

#### **3. Design (E&NE) Organisation**

The Design (E&NE) unit of CWC deals with the Planning, Design & Preparation of Construction Drawings and Vetting of Manufactures' Designs & Drawings of 9 states including North East States of India i.e. West Bengal, Sikkim, Tripura, Mizoram, Arunachal Pradesh, Meghalaya, Nagaland, Assam, Manipur. Design (E&NE) unit also deals with the projects the neighbouring country of Bhutan

Besides the above work, it deals with the work of DPR preparation, Technical examination of DPR, BIS code review, Technical references from projects and other activities like Parliament questions & RTI. The Organisation would keep a watch on latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and identify areas of Research in the sphere of activities and carry out research in house/ by other agencies. A brief

note on five directorates Designs (E& NE) are given below:

#### **Hydel Civil Design (HCD) Directorate**

HCD Directorate is engaged in, providing preliminary and detailed design consultancy services for civil design components of various hydro-electric projects, evaluation and vetting of specifications, tender documents and related technical aspects of hydro-electric projects, attending to special problems of projects, technical appraisal of DPR/PFR of various projects of the concerned states in respect of hydropower component and assisting BIS in preparation of design standards in respect of hydro power components.

#### **CMDD Directorate**

CMDD Directorate is engaged in, designing of gravity dams, sluice and its related components for river valley projects, vetting of designs and drawings prepared by other agencies, suggesting rehabilitation measures for concrete and masonry dams, technical examination of DPR/PFR of major projects in respect of gravity dam component, providing solution for special problems of projects and assisting BIS in preparation and revision of codes for gravity dams and related structures. This Directorate would coordinate the activities of the Organization for keeping a watch on latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and identifying areas of Research in the sphere of activities and carrying out research in house / by other agencies by respective directorates by holding regular organization meetings in this regard and informing the details to the Committee on Civil and Hydro Mechanical Designs. This Directorate would submit agenda points to D&R Coordination Dte. for consideration/deliberation of Members in a Commission Meeting. Suggest measures for possible realignment of Organization activities/capacity building of its Human resources etc.

#### **Embankment Directorate**

Embankment directorate is engaged in, design of earth/rock fill dam, tailing dams and their appurtenant structures, diversion structures and other components of dams, technical examination of embankment design aspects of PFR/DPR, assisting BIS in the preparation of various Indian Standards pertaining to river valley projects (embankment dams) and providing solutions to special problems referred by the State Govts. / other agencies.



### **Gates Design Directorate**

Gates Design directorate is providing preliminary and detailed design consultancy in respect of hydro mechanical structures such as gates, hoists etc. which include preparation of technical specifications, scrutiny of manufacturer's design and drawings and solution to special problems referred from time to time, technical appraisal of major projects and assisting BIS in preparation of relevant codes.

### **BCD Directorate**

BCD directorate is providing consultancy in respect of planning & design of barrages, weirs, canals, canal falls, canal structures, cross drainage works required for irrigation, water supply and multipurpose projects, providing solution to special problems/rehabilitation works for various projects, technical examination of DPR/PFR in respect of barrages and different components of canal and assisting BIS in preparation of relevant codes.

### **4. Narmada Basin Project (NBP) Organisation**

Narmada Basin Project organisation is responsible for providing detailed Design consultancy services for the projects of Sardar Sarovar Narmada Nigam Ltd. (SSNNL), Govt. of Gujarat and Narmada Valley Development Authority (NVDA), Govt. of Madhya Pradesh, Narmada Basin Project organization. The Organisation would keep a watch on latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and identify areas of Research in the sphere of activities and carry out research in house/ by other agencies. A brief note on three Design Directorates is given below:-

### **Sardar Sarovar (Power House & Canal) Directorate**

SS (PH) directorate is responsible for, providing design consultancy services covering planning, detailed design and preparation of construction, specification drawings for civil components of underground River Bed Power House Complex and Canal Head Power House for Sardar Sarovar Project and the proposed Garudeshwar Weir downstream of Sardar Sarovar Project and preparation of guidelines for initial commissioning etc. The residual work of Narmada Canal Design directorate for providing design consultancy services for the Narmada Projects being executed by NVDA, Govt. of M.P., which broadly covers planning and preparation of detailed design/drawings for cross drainage works of Indira Sagar Project, scrutiny and vetting of design and drawings of Bargi Diversion Project (RBC) and specific problems of canals of Narmada Valley.

### **Narmada Dams and Head Works Design Directorate**

Narmada Dam and Head Work Design directorate is responsible for, providing design consultancy services such as finalising the layout studies, detailed designs and drawings along with specifications for dam and headwork components of Indira Sagar, Punasa facilities II, Upper Narmada, Halon, Upper Beda, Lower Goi and Bargi Diversion Projects in Narmada Basin in the State of M.P. and preparation of guidelines for initial commissioning, testing and operation of completed projects. This Directorate would coordinate the activities of the Organisation for keeping a watch on latest development/identification of stress areas particularly in Dam Design / Design of Hydro-Power Projects and identifying areas of Research in the sphere of activities and carrying out research in house / by other agencies by respective directorates by holding regular organization meetings in this regard and informing the details to the Committee on Civil and Hydro Mechanical Designs. This Directorate would submit agenda points to D&R Coordination Dte for consideration/deliberation of Members in a Commission Meeting. Suggest measures for possible realignment of Organization activities/capacity building of its Human resources etc.

### **Narmada Hydro Mechanical Design Directorate**

Narmada Hydro Mechanical Design Directorate is responsible for, providing design consultancy services for hydro-mechanical components along with specifications of Indira Sagar, Punasa facilities II, Upper Narmada, Halon, Upper Beda, Lower Goi and Bargi Diversion Projects in Narmada Basin in the State of MP.

### **5. Dam Safety Organisation (DSO)**

DSO is performing a coordinative and advisory role for the State Governments in assisting them to locate causes of potential distress in dams and to recommend measures for their redressal, laying down guidelines for dam safety monitoring, extend technical assistance regarding problems encountered by the State Governments and dam owning agencies on matters concerning inspection and review of the safety status of dams & instrumentation of dams, finalising seismic design parameters for dam designs, dam break studies and preparation of emergency action plan. CDSO, CWC has been accredited with ISO certification, which involves carrying out activities as per ISO approved procedures. The Organisation would keep a watch on latest development/identification of stress areas in the field of Dam Safety and identify areas of Research in the



sphere of activities and carry out research in house/ by other agencies. Brief descriptions of five directorates under DSO are given below:

#### **Dam safety Monitoring (DSM) Directorate**

DSM directorate is responsible for assisting the States in implementing unified dam safety procedures, matters related to Emergency Action Plans (EAPs), Dam safety Organisations etc. This directorate also functions as secretariat for National Committee on Dam Safety (NCDS) which is a forum for discussions on dam safety issues among the Central, State Govt. and dam owning agencies. DSM directorate maintains National Registration of Large Dams (NRLD) and handles issues related to Supervisory Committee of Mullaperiyar Dam, PAP Sub-committee etc. involving dam safety related interstate issues between the state of Tamil Nadu and Kerala. It acts as a nodal Dte of DSO.

#### **Foundation Engineering & Special Analysis (FE&SA) Directorate**

FE&SA directorate is responsible for technical appraisal of DPRs (all regions) on seismic and foundation aspects and finalizing seismic design parameters of river valley projects, dam break & backwater analysis, Glacial Lake Outburst Flood (GLOF), Secretarial works of National Committee on Design Parameters (NCSDP); Nodal Directorate for Water Resources Division Council (WRDC) of BIS; Central Geological Programming Board (CGPB), National Institute of Rock Mechanics (NIRM).

#### **Instrumentation Directorate**

Instrumentation directorate is responsible for planning and design of instrumentation system for hydraulic structures for river valley projects. **Instrumentation Demonstration Centre which consists of instruments and models for River Valley Projects at CWC headquarters is also entrusted to this directorate.** Matters related to Strengthen of Instrumentation of large dams, matters related to strengthening of seismic instrumentation as per the decision of National Committee on Seismic Design Parameter (NCSDP), this Directorate would coordinate activities of the Organisation for keeping a watch on latest development/identification of stress areas in the field of Dam Safety and identifying areas of Research in the sphere of activities and carrying out research in house / by other agencies by respective directorates by holding regular organization meetings in this regard and informing the details to the Committee on Civil and Hydro Mechanical Designs for further deliberations. This Directorate would submit agenda points to D&R Coordination Dte. for consideration/deliberation of

Members in a Commission Meeting. Suggest measures for possible realignment of Organization activities/capacity building of its Human resources etc.

#### **Dam Safety Rehabilitation (DSR) Directorate**

Dam Rehabilitation and Improvement Project (DRIP) have been taken up with World Bank assistance. 225 dam projects in 7 states i.e. Madhya Pradesh, Orissa, Kerala, Tamil Nadu, Karnataka, Uttarakhand and Jharkhand are being rehabilitated. The projects' overall co-ordinations are being carried out by Central Project Management Unit constituted in DSR Dte. Although, services of an Engineering & Management Consultancy is available in support of CPMU, yet major workload of co-ordination with the nine Implementing Agencies, the World Bank, DEA and the MOWR, RD&GR is directly borne by the DSR Directorate Officials. The DSR Dte is fully engaged with its original mandate of Safety, Inspection & Rehabilitation of Dams all over India. In addition, the crucial works related to Dam Safety Bill is also fully handled by this DSR Dte.

#### **Software Management Directorate**

Software Management is the nodal unit for IT system of Central Water Commission at CWC HQ. This directorate is responsible for procurement/ providing hardware and software support including up gradation, network and internet management, procurement of computer hardware and software and consumables for CWC and maintaining CWC web site. Apart from above, another major work being done by SMD Dte is development of software application as per requirement of CWC. As no specialized IT Staff is available in SMD, the work of development is being done externally by inviting quotations through open tenders. Director SMD is the nodal officer for e-governance for Central Water Commission. Management of NIC mail IDs of more than three thousand employees, management of password of APAR management system biodata management system, daily uploading circulars on CWC website etc., are also undertaken in SM Dte. Dte is tasked to keep updating CWC webpage in accordance with inputs received from TC-1 Dte.

#### **6. Hydrological Study Organisation (HSO)**

The main function of HSO is to provide basic input of hydrology for rational planning of water resources projects, review design flood studies for various projects, technical appraisal of the hydrological aspects of river valley projects, consultancy of project hydrology connected with the planning, design and operation of



water resources projects and vetting of hydrological chapters, provide guidance/assistance to various agencies like WAPCOS, NEEPCO, NHPC and State Governments in undertaking hydrological studies, imparting training on project hydrology to various Central and State Government's Engineers and prepare Manuals/Standards for hydrological analysis. Preparation of Report and Secretarial work of Study on Salinity ingress in Coastal Areas, Revision of BIS Codes Pertaining to WRD-10, Secretariat work of EAC for MoEF, Consultancy Studies, Special Studies, international Projects, E- flow Studies, Secretarial work of EAC of MoEF, Special Studies (Flood simulation, possible diversion of INDUS water of China, Brahmaputra matter with China, Storage issues of Brahmaputra, International Issues (China, Bangladesh, Bhutan), National Hydrology Project-III, International Co-operation, Interstate issues, Revision of BIS Codes Pertaining to WRD-1 and DRIP. The Organisation would keep a watch on latest development/identification of stress areas in the field of Hydrology and identify areas of Research in the sphere of activities like adoption of appropriate flood frequency methods in India in line with Bulletin 13 "Methods of Flow Frequency Analysis" used in USA, and carry out research in-house/by other agencies. A brief note on five directorates under HSO is given below:

#### **Hydrology (North East) Directorate**

Hydrology (NE) directorate is entrusted with the work of technical appraisal of hydrological aspects like water availability, design flood, sedimentation, diversion flood of water resources projects in north eastern region including Bhutan and providing guidance/assistance to WAPCOS, NEEPCO, NHPC, and State Water Resources Departments in undertaking hydrological studies. Matters related to Special Studies (Flood Simulation, possible diversion of Indus water of China, Brahmaputra matter with China, storage issues of Brahmaputra backwater, GLOF Flood estimation due to land slide dam breach, International issues (Bangladesh, China & Bhutan). E-Flow Studies, Secretarial work of EAC of MOEF are being dealt in Hydrology (NE) Directorate. This Directorate would coordinate activities of the Organisation for keeping a watch on latest development/identification of stress areas in the field of Hydrology and identifying areas of Research in the sphere of activities and carrying out research in house / by other agencies by respective directorates by holding regular organization meetings in this regard and informing the details to the Committee on Civil and

Hydro Mechanical Designs for further deliberations. This Directorate would submit agenda points to D&R Coordination Dte for consideration/deliberation of Members in a Commission Meeting, and suggest measures for possible realignment of Organization activities/capacity building of its Human resources etc.

#### **Hydrology (North) Directorate**

Hydrology (N) directorate is entrusted with the work of technical appraisal of hydrological aspects like water availability, design flood, sedimentation, diversion flood of water resources projects in North India region comprising States of J&K, HP, UP, Bihar, Uttarakhand, MP, Punjab, Haryana Gujarat and Rajasthan and also carrying out hydrological studies of Indo-Nepal Joint Venture Projects like Sapta Kosi, Sun Kosi and Kamla in Nepal and providing guidance/assistance to WAPCOS, NHPC, State Govt. Water Resources Departments in undertaking hydrological studies. Matters related to Secretariat work of EAC for MOEF, Consultancy studies, Special Studies, International projects are being dealt in Hydrology (N) Directorate.

#### **Hydrology (Central) Directorate**

Hydrology (C) directorate is entrusted with the work of technical appraisal of hydrological aspects like water availability, design flood; sedimentation and diversion flood of water resources projects in Narmada Basin. co-ordination works, and revision of BIS codes pertaining to WRD-10 are being dealt in Hydrology (Central) Directorate.

#### **Hydrology (South) Directorate**

Hydrology (South) directorate is entrusted with the work of technical appraisal of hydrological aspects like water availability, design flood, sedimentation and diversion flood of water resources projects in Southern States of AP, Kerala, Karnataka, Tamil Nadu, Orissa, Sikkim, Chhattisgarh and Andaman & Nicobar Island and providing guidance/assistance to WAPCOS, NHPC, NEEPCO, State Govt. Water Resources Departments in undertaking hydrological studies. Matters related to National Hydrology Project, HAD-SW, NWDA activities, inter-state issues, revision of BIS Codes pertaining to WRD-I, Consultancy Study /Special Study, Updating of PMP Atlas are being dealt in Hydrology (South) Directorate.

#### **Hydrology Dam Safety Review (DSR) Directorate**

The functions of this directorate are to co-ordinate & assist in design flood review studies for rehabilitation of



dams related to spillway design and providing assistance to State Irrigation Deptt. in examining/scrutiny/review of studies on hydrological aspects. The activities relating to NIH, IAH and IHP are also being looked after by this directorate. It is Nodal Dte of CWC for DRIP. Matters related to Hydrological Studies of Projects under DRIP, Consultancy/Special Studies, Up-dation of reports of Flood Estimation Report, Interdepartmental issues regarding FEPC are being dealt in Hydrology (DSR) Directorate.

This Dte. will coordinate preparation / updation of manual / guidelines on project hydrology, research activities in the field etc.

#### **R & D DIVISION**

The R&D Division under D&R Wing is operating and managing the plan scheme "R&D programme in Water Sector", wherein various issues are dealt with CWC, CSMRS, CWPRS & NIH. Apart from the regular activities handled by the R&D Division pertaining to INCSW; INSGW; & INCCC, R&D Division is also doing the various other works assigned directly by the Sr. Officers in the Ministry.



## **Human Resources Management Wing**

This wing, aside from what appears next, also deals with service matters of officials belonging to cadres other than CWES Gr 'A' cadre. CE, HRM, being its head, periodically reviews the recruitment/promotion aspects of all cadres.

### **Director (Technical Coordination)**

Director (TC) is responsible for, coordination of technical activities of CWC with MoWR and within CWC particularly parliament questions related matters, providing assistance to Chairman, CWC in technical activities associated with water resources sector, registration and empanelment of consultants in the field of water resources sector, monitoring and coordinating the study on restructuring of CWC, preparation of Annual Report of CWC, collection, compilation and submission of material for weekly/monthly/half-yearly/yearly returns to MoWR. Will compile significant activities of CWC from each wing, HRM unit including Trg Dte, and forward it to SMD Dte for updating the CWC web-site on monthly basis. This Dte is tasked to prepare/coordinate the stand of CWC to counter/buttreass views that frequently pop up in media.

**This unit will feed inputs to all Members and Chairman, CWC as often as necessary.**

### **Director (Training)**

Training Directorate arranges and co-ordinates activities related to training programmes/ seminars/workshops on Jal Kranti etc. in fields of water Resources Sector for in-service offices of CWC and other Central/State Govt. Departments and their Organisations; Development of training facilities and infrastructure in all field organisations. Training Directorate also arranges Apprenticeship Training for fresh engineering graduates/diploma holders/vocational certificate holders in collaboration with Board of Apprenticeship Training, Kanpur. This Dte will also coordinate with all coordination Dtes of CWC to push forward capacity building of Human resources in CWC at all levels. Will coordinate with NWA for routine meetings of Program Advisory Committee/Advisory Committee of NWA; Collects PIs of NWA/feedbacks of trainees, and place it before higher authorities in CWC; to maintain a pool of distinguished guest faculty of diverse areas, and arrange their talks on diverse/burning topics as often as it is possible at both CWC (Hq) and NWA, Pune. It maintains a database of all officers of their training records, and

works for their capacity building aligned with CWC training policy.

### **Procurement and Construction Planning (PCP) Directorate**

Director (PCP) is responsible for, maintenance of office premises in Sewa Bhawan, West Block No.1 and West Block No 2, which include regular upkeep of space occupied by CWC, procurement and distribution of stationery, office furniture etc., installation/shifting/maintenance of telephones provided at office & residence of officers and maintenance of EPBAX, fax, water coolers, photo-copying machines, cars and other vehicles for CWC headquarters.

### **Secretary, CWC**

Secretary, CWC is looking after establishment matters of officers belonging CWES and matters related to vigilance, accounts, budget, O&M, Commission meetings etc. Secretary, CWC is also designated as Vigilance Officer and Grievance officer for CWC. Make attempts to revisit establishment related old OMs/guidelines/office procedures, and tune it to the need of current challenges. Conduct periodical review of issues with all Directors (Coordination) vital for holding Commission Meeting.



# Chairman, CWC

Reorganized CWC at Hq as  
per 191 CM held on  
20.12.2016

