

GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND
URBAN AFFAIRS



ANNUAL REPORT
2021-22





In the journey of Swachh Bharat Abhiyan and AMRUT Mission, there is a mission, there is respect, there is dignity, there is the ambition of a country and there is also unmatched love for the motherland.

What looked impossible has been made possible by the PM SVANidhi Yojana. Today, more than 46 lakh street vendors and hawkers have come forward to take advantage of this scheme. Out of these, about 2500 crore rupees have been given to 25 lakh people.

In 2014, the people of the country took a pledge to make India open defecation-free - ODF. They fulfilled this pledge with the construction of more than 10 crore toilets. Now the goal of the 'Swachh Bharat Mission-Urban 2.0' is to make a garbage-free city, a city completely free of garbage.

The situation where all the properties are in the name of the men of the house needs some correction and as a concrete step, more than 80 per cent of the houses under PM Awas Yojna are being registered in the name of the women or they are the joint owners.



Narendra Modi | Prime Minister

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15.01 Central Public Works Department, an attached office in the Ministry of Housing and Urban Affairs, is a principal engineering organization and technical advisor to the Government of India with a proven track record of over 167 years and has expertise in all facets of built environment. CPWD is a total service provider, capable of giving single window service for all facets of built environment with complete accountability and responsibility.

15.02 CPWD renders most comprehensive services in the field of planning, designing and construction from concept to completion for all building & infrastructure projects with total quality assurance including post construction maintenance management. It is involved in execution of wide range of projects catering to all spheres of human activities such as housing, office space, hospitals, educational institutions, roads, bridges, flyovers, airports, tourism and culture, environmental and other utility services. It also executes fencing, flood lighting and road projects in difficult terrain under hostile conditions along borders. CPWD has transformed into a modern, efficient and delivery-oriented organization catering to the development of the built environment of the nation.

15.03 Despite the setback due to 2nd phase and ongoing Covid-19 pandemic and subsequent lockdowns, the achievements and activities of CPWD during the year 2021-22 have been significant in terms of human resource management, completion of projects mostly on time with quality and economy, adding new clients, signing new MoUs, implementing new policy and reform initiatives, research, development and innovations for the growth of department. CPWD has also been the forerunner and trend setter in the repository of skills and knowledge and bench marking of construction standards for infrastructure sector.

Functions

15.04 Major functions of CPWD are construction and maintenance of built environment. Construction projects are of various types such as residential, office, schools, laboratories, hospitals, stadia, gymnasias and auditoria, storages etc. and infrastructure works such as highways, flyovers, tunnels, bridges, jetties, sports facilities, border fencing, airports, runways etc.

15.05 CPWD maintains large building stock of General Pool Residential Accommodation and Central Government Office Buildings. Residential units and office space maintained by CPWD are 1.55 lakh units and 75 lakh square metres respectively.

15.06 CPWD is also involved in discharge of other multiple functions e.g., Technical Advice to Government, Custody of Estates, Valuation, Rent Assessment, Standardization and benchmarking of construction activities through issue of Schedule of Rates, Specifications etc., processing of DPRs for Border Works and other ministries for centrally funded works. CPWD also assists in organizing public and ceremonial functions, and upkeep of historical and important monuments, structures and Samadhis etc.

15.07 Vision and Mission of CPWD

- i. Central Public Works Department strives to position itself with global presence and to become the most coveted destination for the Central and State Governments and other clients/stakeholders.

- ii. Attain 25% annual growth in the workload of the department by taking works of Ministry of External Affairs, Roads & Highways and State Governments.
- iii. Adopt best construction practices and new technologies in construction and expand the Technical Advisory Role of the Department.
- iv. Make presence of CPWD Engineers/Architects in various Ministries/Departments of Government of India for rendering technical advice and works management.
- v. Construct all buildings as green and barrier free and maintain the built environment by attaining highest standards of sustainability, quality and client's satisfaction.
- vi. Implement ERP in CPWD for complete digitization and real time monitoring of all activities.
- vii. Establish a dedicated research, development and innovation centre at National CPWD Academy.
- viii. Establish Green Rating, Energy Rating and Heritage Conservation Cell in the Department.
- ix. Comprehensive career development and HR up-gradation through global exposure to enable Engineers and Architects to imbibe state of the art construction and management practices.
- x. Periodic Updation of CPWD Works Manual, General Conditions of Contract, Delhi Schedule of Rates, Specifications and other publications of CPWD.
- xi. 100% Comprehensive outsourcing of maintenance to provide highest user satisfaction.
- xii. CPWD resolves to achieve customer satisfaction through quality, timely delivery and transparency in effective execution of works and delivery of services while adhering to the principles of sustainable development.

Setup of CPWD

15.08 Central Public Works Department is headed by the Director General who is also the Principal Technical Advisor to the Government of India. Jurisdiction of the Department is divided into Project Regions and Field Regions headed by Special Directors General / Additional Directors General. Project Units under Project Regions are headed by the Chief Engineer cum Executive Director / Superintending Engineer cum Project Director. Zone and Circle under field Regions are also headed by Chief Engineer and Superintending Engineer respectively. Field Division and Sub-Division are headed by the Executive Engineer and Assistant Engineer respectively.

Cadres in CPWD

15.09 CPWD has three organized Group 'A' Services which are controlled by the Ministry of Housing and Urban Affairs. These are Central Engineering Service (Civil), Central Electrical & Mechanical Service and Central Architects Service.

15.10 There are also a few Group 'A' posts in the Horticulture Cadre. There are Group 'B' & 'C' subordinate services for Engineers, Architects, Horticulturist, Ministerial staff, Engineering Drawing Staff, Stenographers and Rajbhasha staff. CPWD also has a large strength of workmen in various categories, called Work Charged cadre.

15.11 To ensure that the accounting procedures of CPWD are seamless with the accounting line of the Government of India, Director (Finance), Officials from Central Government Accounting Service

(Sr. Accounts Officer, Assistant Accounts Officer and Accountant) controlled by Controller General of Accounts, Government of India are posted in different units of CPWD.

15.12 Similarly, for administrative functions, Ministerial staff from Central Secretariat Service Cadre, Central Rajbhasha cadre and a Law Officer from the cadre of Ministry of Law & Justice are posted in Central Office and in most Zonal Offices apart from CPWD Staff. A contingent from NIC cadre also assists in IT related functions. Officers drawn from the Ministry of Labour are posted to various field locations for Labour Welfare functions

15.13 CPWD Cadres, both Technical and Non-Technical, are encadred in various organizations such as Delhi PWD, Income Tax Department and Ministry of Environment & Forest etc. In addition to this, many CPWD personnel are deployed on deputation to a host of Government Ministries / Departments, autonomous and public sector entities.

15.14 At present, CPWD on its roll, has 1224 Group 'A' officers, 5620 Group B officers and 12161 Group C staff including work-charge staff. Total employees' strength of CPWD is 19005.

Functional units

15.15 Division is the basic unit of execution of work and headed by Executive Engineer. Division is further divided into Sub-divisions and Sections, which are headed by Assistant Engineer/Assistant Executive Engineer and Junior Engineer respectively.

15.16 One or more Division(s) are placed under the control of a Circle/Zone headed by Superintending Engineer/ Chief Engineer and circles and zones are placed under the control of a Region headed by Additional Director General (ADG).

15.17 For focussed execution and better client satisfaction, projects costing over Rs 150 crore are executed by deploying work centric project units. A Project Unit consists of Executive Engineer cum Senior Manager of one or more streams and headed by Superintending Engineer cum Project Director or Chief Engineer cum Executive Director and headed by Special DG/Additional DG.

15.18 The basic unit of architectural planning is either Architect or Senior Architect. Senior Architect and Chief Architect report to ADG / SDG of the region and are supported by Architects, Dy. Architects and Assistant Architects.

15.19 Architects are in-charge of architectural wing in zone and report directly to Chief Engineer and are supported by Technical Officers / Assistants (AD).

Specialized Units of CPWD

15.20 **Design and Disaster Mitigation Unit :** Design and Disaster Mitigation (D&DM), a specialized unit of CPWD, is involved in the field of structural design, new construction techniques, materials testing, soil investigations, repairs and rehabilitation of structure in distress, development of software etc. The unit is also actively involved in Disaster Management and Mitigation activities of NDMA.

15.21 Contract, Specifications and Quality Assurance (CSQ) Civil unit

- i. **Contract and Manual Unit :** This unit issues technical circulars in respect of General Conditions of Contracts, Works Manual, Maintenance Manual and Contractor Enlistment Rules. This unit is also responsible for registration and revalidation of Class- I(A), I(AA), I(AAA) & I (Super) of contractors.

- ii. **Techno-Legal & Quality Assurance Unit** : This unit is responsible for issuing guidelines for quality assurance of works. This unit is also responsible for dealing with the arbitration cases, court cases, and approval of counter statement of facts in the arbitration cases, other litigation matters and issue of circulars regarding all the above activities.
- iii. **Technology Application & Specification Unit** : This unit is responsible for updating the specifications of works, issue of circulars from time to time, laying down specifications for new materials, approval of cost index, revision and updating of schedule of rates etc.

15.22 Contract, Specifications and Quality Assurance (CSQ) Electrical unit : This unit is responsible for implementation of energy efficiency measures of the government buildings maintained by CPWD, framing of Enlistment Rules for Category-Lifts, review of Enlistment Rules, preparation of DSR & AOR (E&M). CPWD General Specifications for Electrical Works, Automatic Fire Alarm System, Wet Riser System, Lifts, Sub-station, DG sets and HVAC etc.

15.23 e-Governance Unit : e-Governance unit is engaged to achieve transparency, accountability and simplification of work-processes in functioning of CPWD. CPWD has taken numerous e-governance initiatives in line with Digital India Program and many web-based applications have been developed and implemented which have revamped the functioning of the Department.

15.24 Enterprise Resource Planning (ERP) Unit : e-NIRMIT (Nationwide Intelligent Resource Management with Information Technology) is being implemented in CPWD in mission mode for digitization, real time monitoring and control of all activities of CPWD.

15.25 National CPWD Academy and Regional Training Institutes : CPWD has its main Training Academy at Ghaziabad and four Regional Training Institutes each at Delhi, Mumbai, Kolkata and Chennai. These Institutes conduct number of courses for officers and staff of all disciplines. The training programs of the Institute include foundation courses for direct recruit officers, orientation program for newly promoted officers and other staff etc. and mid-career training to officers at different stages. Due to COVID -19 pandemic regular classroom trainings could not be conducted, however webinars on various topics have been conducted.

15.26 Vigilance Unit : Vigilance Unit of CPWD is responsible for maintaining probity, integrity and efficiency in the organization under the general superintendence of Central Vigilance Commission.

Work Performance of CPWD

15.27 Actual Work Load of CPWD for the year 2021-22

(₹ in Crore)	
Sl. No.	Description
1	Actual expenditure (January 2021 - December 2021)
2	Projected expenditure (January 2022 - March 2022)

15.28 Some of the large single value projects entrusted recently to CPWD

- Common Central Secretariat Buildings 1,2&3 at New Delhi : ₹ 3,690 crore
- Executive Enclave at New Delhi : ₹ 1381 crore
- Vice President Enclave at New Delhi : ₹ 208 crore

- GPOA-2 at KG Marg, New Delhi : ₹ 351 crore
- 300 Bedded (including 50 Bedded Super Specialty) Hospital for ESIC at Haridwar, Uttarakhand : ₹ 297 crore
- 300 bedded (Expandable to 500 bedded) Hospital at ESIC Nandanagar, Indore : ₹ 256 crore.
- 150 Bedded Super Specialty Hospital for ESIC at Bhubneswar : ₹ 178 crore
- 100 bedded ESIC Hospital at Shivamogga, Karnataka : ₹ 100 crore
- IIIT Campus at Ranchi - ₹ 128 crore
- Infrastructure at IIIT Bhagalpur : ₹ 120 crore
- Additional Infrastructure at Indian Institute of Science at Bangalore : ₹ 334 crore
- Engineering Block for NIT Puducherry at Karaikal : ₹ 154 crore
- Indian Coast Guard Building, Mumbai : ₹ 118 crore
- Office Building for Income Tax at Bangalore : ₹ 247 crore

15.29 Overseas works assigned to CPWD

- Work of National Police Academy, Nepal
- Works of Women Police Academy, Myanmar
- Works of Mental Hospital, South Sudan

15.30 Works Completed

Some of the major works completed and inaugurated by the VVIPs are as under.



Hon'ble President of India inaugurated 48 Type II Quarters at President's Estate, New Delhi on November 02, 2021



48 Type II Quarters at President's Estate, New Delhi



Hon'ble Prime Minister inaugurated Office Building of IUCTE; Dharamshala & Hostel building for Doctor's and Nurses; flats for BHU at Varanasi on December 23, 2021.



Office Building of IUCTE; Dharamshala & Hostel building for Doctor's and Nurses; 2x 80 nos. residential flats for Banaras Hindu University at Varanasi



Hon'ble Prime Minister inaugurated Defence Offices Complex at New Delhi on September 16, 2021.



Defence Offices Complex at Africa Avenue and Kasturba Gandhi Marg, New Delhi



Hon'ble Prime Minister inaugurated four State of the Art projects for IIT (BHU) on October 25, 2021 at Varanasi



Girls Hostel, double seated rooms Dhanrajgiri Hostel, Faculty Apartment and Student Activity Center Varanasi



Hon'ble Prime Minister inaugurated five State of the Art iconic projects for BHU and multilevel scooter parking at Varanasi on July 15, 2021.



Rudraksh Varanasi Convention Centre, Maternal & Child Health Hospital, Regional Institute of Ophthalmology, Flats for BHU and multilevel scooter parking at Varanasi



Hon'ble Prime Minister inaugurated Admin block, Library, Auditorium, School and Hostel on September 28, 2021.



Campus for ICAR- National Institute of Biotic Stress Management at Baronda, Raipur



Hon'ble Prime Minister of India inaugurated CIPET on September 30, 2021 at Jaipur



Central Institute of Petrochemicals Engineering and Technology (CIPET), Jaipur



Hon'ble Prime Minister of India inaugurated JIPMER Blood Centre on February 25, 2021 at Puducherry



JIPMER Blood Centre, Puducherry



Hon'ble Minister of Housing & Urban Affairs inaugurated Central Secretariat Building, Raipur on August 27, 2021



Central Secretariat Building at Naya Raipur, Chhattisgarh



ShriNityanandRai, Hon'ble Minister of State for Home Affairs inaugurated Quarters, Mess, Hospital for SSB on November 11, 2021 at Tawang, Arunachal Pradesh



60 Type II & 32 Type III Quarters, Quarter Guard, SO's Mess, Jawan Barrack and 10 bedded Hospital for 38th Bn, SSB at Tawang, Arunachal Pradesh.



Dr. Virendra Kumar, Hon'ble Minister of Social Justice and Empowerment inaugurated Hostel building for Composite Regional Centre at Lucknow on October 30, 2021



Hostel building for Composite Regional Centre at Lucknow



Smt. Nirmala Sitharaman, Hon'ble Minister of Finance and Corporate Affairs inaugurated Type-VI Residential Quarters for Income Tax Department on September 30, 2021



Type-VI Residential Quarters at Nungambakkam, Chennai



Shri Arif Mohammad Khan, Hon'ble Governor of Kerala inaugurated Guest House on March 02, 2021



Guest House of Central University of Kerala at Kasaragod

15.31 Some of new works for which foundation stone have been laid

● Building of Phase 1C of IIT Jammu



Shri Amit Shah, Hon'ble Union Minister of Home Affairs laid foundation stone on October 24, 2021



Proposed building of Phase 1C of IIT Jammu

● Central Vista Avenue, New Delhi



Shri Hardeep Singh Puri, Hon'ble Minister, Ministry of Housing and Urban Affairs performed Bhumi Pujan on February 04, 2021 at Central Vista, New Delhi



Proposed buildings of Central Vista Avenue, New Delhi

● Hostel Building for differently-abled students of Ali Yavar Jung National Institute of Speech & Hearing Disabilities at Bandra West, Mumbai



Shri Thawar Chand Gehlot, Hon'ble Union Minister for Social Justice and Empowerment laid the foundation stone on February 18, 2021 at Mumbai



Proposed Hostel Building for differently-abled students of Ali Yavar Jung National Institute of Speech & Hearing Disabilities at Mumbai

● **Central GST Bhawan Boisar, Maharashtra**



Shri Rakesh Kumar Sharma, Principal Chief Commissioner CGST & Central Excise Zone, Mumbai laid the foundation stone on Feb 27, 2021 at Maharashtra



Proposed Building of Central GST Bhawan Boisar, Maharashtra

● **100 bedded ESIC Hospital, Karnataka**



Shri K S Eshwarappa, Hon'ble Minister of Rural Development and Panchayat Raj of Karnataka performed Bhumipujan on April 23, 2021 at Karnataka



Proposed building of 100 bedded ESIC Hospital, Karnataka

● **Engineering Block for NIT Puducherry**



Dr. K Sankaranarayanan, Director, NIT Puducherry and Shri Rajesh Kumar Kaushal, SDG (PRC), CPWD jointly performed Bhumipujan and laid foundation stone on Sep 10, 2021 at Karaikal



Proposed building for Engineering Block for NIT Puducherry

15.32 Some of the major works in progress



Central Vista Avenue, New Delhi



New Parliament Building, New Delhi



Hospital Tower at AIIMS Jammu



Academic Building at IIM Jammu

15.33 Activities of CPWD in North East Region

CPWD is actively engaged in executing a number of projects for various Central Government Departments, Central Police Departments, JNVs, many Autonomous Bodies and other institutions in all Seven States of North East namely Assam, Arunachal Pradesh, Meghalaya, Nagaland, Mizoram, Manipur and Tripura.

CPWD have successfully delivered many projects in this region to the entire satisfaction of clients despite challenges like limited accessibility, shortage of workers in some parts, tough working conditions and reduced working season due to adverse climatic conditions. CPWD has to its credit the development of permanent capital of the State of Arunachal Pradesh at Itanagar, large number of campuses of Central Police Organizations, Educational Institutes, various Central Government Department and aviation infrastructure in the Region. During last financial year 2020-21 CPWD achieved the work load of Rs. 439.22 Crore and during this financial year i.e. 2021-22 despite restrictions due to COVID-19 pandemic, CPWD is likely to achieve a work load of ` 538 Crore` in this Region.

15.34 Some of the completed works in the year 2021-22:

- Up-gradation of Agartala Government Medical College, Tripura under PMSSY Phase-III at Agartala.
- Up-gradation of 40 to 50 bedded Composite Hospital at GC, CRPF, Imphal, Manipur.
- Office cum Residential Building for IBSD at Haraourou, Imphal, Manipur.
- Permanent Campus for Regional Centre of Indian Institute of Mass Communication complex at Aizawl, Mizoram

- 20000 MT Godown (4 No. of 5000 MT each) for FCI at Archipathar Assam.
- 120 Men Barrack for 25th Bn, ITBP at Tezu, Arunachal Pradesh.
- Kendriya Vidyalaya School Building and Staff Quarters for Assam University, Silchar, Assam.
- 100 Bedded Boys Hostel at Assam University, Silchar.
- Administrative Building block at FTR. HQ. BSF, Umpling, Shillong, Meghalaya
- Central Institute of Hindi at Mawdiangdiang in Shillong, Meghalaya
- Infrastructure at 16th Bn. Hqrs, SSB Kokrajhar (Adabari) under FTR Hrs, Guwahati
- 60 Nos. Type-II quarters at 22 Bn HQ SSB Sonaour
- Residential & Non-Residential Buildings for 22nd Hq SSB at Sonapur

15.35 **Some of the ongoing works:**

- Six Ekalavya Model Residential School (EMRS) Buildings with Girls and Boys at various location in the state of Tripura.
- 150 bedded Boys Hostel at Tripura University, Agartala.
- Office building for CGST Commissionerate at Agartala.
- Office building for Khadi and Village Industries Commission at Agartala.
- 200 Capacity Girls Hostel at NIT, Agartala, Tripura.
- Office building and Residential quarters for SIB at Salbagan, Agartala.
- DCIO Office building and Staff Qtrs. for SIB at Babupara, Imphal, Manipur.
- Office building for GSI at Aizawl, Mizoram.
- IGNOU Regional Centre at Aizawl, Mizoram.
- 10000 MT FCI Godown at Dinthersirang, Aizawl, Mizoram.
- Pharmaceutical Science Building 'Ä' wing at Assam University, Silchar.
- Regional Labour Institute at Shillong, Meghalaya.
- JNV at Mawsynram, Meghalaya.
- Film and Television Institute at Arunachal Pradesh.
- JNV at Kiphire Nagaland.
- 5.517 KM inter-state road between Meghalaya (13.397 Km. approx.) to Assam (2.120 Km. approx.) from Mukroh Umspar linking Jrikyndeng road under North East Region Sector Development Scheme (NERSDS).
- 15000 MT Capacity Godown for FCI at Kokrajhar, Assam.
- 50 bedded Hospital at FTR Hqr, BSF Patgoan, Guwahati.
- Centre for Bio-Medical Research at Hengrabari, Guwahati.

- 300 capacity Auditorium Hall and Guest House for Atal Academy camp office for AICTE's Regional Office at Assam Guwahati.
- 200 Bedded ESIC Hospital at Beltola, Guwahati (Assam).
- 200 Nos. Qtrs Separate Family Accommodation for SSB, Sonapur Guwahati.

15.36 Some of the photographs of completed works:



4 Nos. of 5000 MT (each) Godown for FCI at Archipathar, Assam



120 Men Barrack for 25th Bn, ITBP, Tezu, Arunachal Pradesh



Regional Training Institute of GSI at Shillong



Agartala Government Medical College, Agartala



KV at Assam University



IIMC, Aizawl, Mizoram



208 -Type II Quarters for SSB at Sonapur, Guwahati



Composite Hospital GC CRPF, Langjing, Imphal, Manipur

15.37 Border Roads, Fencing & Flood Lighting Works

CPWD is actively involved in development of Border Infrastructure and executing the works of Border Fencing, Roads, Border Out Posts (BOPs) and Floodlighting works along Indo-Pak Border, Indo-Bangladesh Border and Indo-China Border.

CPWD is executing the works of strengthening /retrofitting of border roads in the state of Gujarat, West Bengal, Assam, Meghalya, Tripura and Mizoram as extra ordinary repairs with an amount of more than ₹ 500 crore in different stretches. With completion of these works, the conditions of border roads will be immensely improved along IBB and IPB.

15.38 Some of the completed Border Projects



Coastal BOPs



Replacement of fencing along Indo-Bangladesh Border



ICBR Phase-I Road Niti to Geldung, Length - 24km



Replacement of Border Flood Lighting infrastructure along Indo-Pak Border under Punjab Frontier



Replacement of Border Flood Lighting infrastructure along Indo-Pak Border in Rajasthan

15.39 Some of the New MoUs

- MoU signed with National Fisheries Development Board, Hyderabad for development of Coastal Aquaculture Infrastructure facilities at Srikakulam, Andhra Pradesh on January 22, 2021.
- MoU signed with Canara Bank, Kolkata for construction of residential complex at Jadavpur, Kolkata on February 05, 2021.
- MoU signed with Central Institute of Petrochemicals Engineering & Technology for construction of Technology Centre at Chennai on February 25, 2021.
- MoU signed with IEST, Shibpur for construction of 1000 capacity single bed boys hostel at IEST, Shibpur on March 03, 2021.
- MoU signed with University of Ladakh for construction of buildings of the University at Leh on March 03, 2021.
- MoU signed with Central University of Gujarat for construction of their campus at Vadodara on April 15, 2021.
- MoU signed with Hindustan Aeronautics Limited for infrastructure development of new HAL Helicopter factory at Tumkuru, Karnataka on July 20, 2021.
- MoU signed with UCO Bank for construction of office cum residential building for UCO Bank at Ahmedabad on Sep 01, 2021.
- MoU signed with NIT Trichy for construction of ICE, EEE, Civil, Production, Mechanical & MME Department Laboratory and 506 bedded Boys Hostel Buildings on September 25, 2021.
- MoU signed with Central University of Himachal Pradesh on November 02, 2021 at Dharamshala, Himachal Pradesh for construction of Dharamshala and Dehra campuses of CUHP.

- MoU signed with National Institute of Electronics and Information Technology on December 07, 2021 at Shillong for construction of their campus at Shillong.

Efforts made to bring systematic changes to improve efficiency, effectiveness and transparency and public image

15.40 e-Governance initiatives

Functioning of the CPWD significantly revamped due to the wide-ranging e-Governance initiatives taken as under:

- 'e-NIRMIT (ERP)' & 'Global Housing Technology Challenge' website link added on CPWD main webpage.
- Online module for day-to-day monitoring and management of providing site infrastructure for installation of PSA liquid oxygen plants in hospitals developed on 'Top Priority'.
- Palpable improvements in frontline modules like Project Processing & Approval Management, Departmental Examination Management & Processing Systems, etc. has been carried out to make quantum increase and ease in its usage.
- Major improvement in APAR module have been initiated and implemented to improve user experience.
- Remarkable improvement has been made in PIMS module on regular & continuous basis.
 - PIMS has been improved and made user friendly.
 - Provision has been made in PIMS for updating record regarding Custodian of service record of retired CPWD employees - Due to restructuring of CPWD, several offices have inter alia been renamed, merged, closed, etc. losing sight of service book of retired employees due to change in custodian of such service records. This provision will enable capture of such data of custodian to avoid inconvenience faced by retired employees as well as by concerned sections processing cases involving retired persons.
 - Provision has been created in PIMS for uploading of any speaking order inter alia by reviewing authority or appellate authority and by custodian of APAR records.
 - Provision has been created for retaining duplicate PIMS ID of any employee in case of its change or correction.
 - Provisions have been made in PIMS application for generating system alerts through SMS and e-mails to employees, who have failed to join their new place/station of posting after being relieved from earlier office after lapse of two months. These alerts are also sent to concerned Co-ordination units/Sections and the prospective controlling officer. Report regarding such employees can be seen and monitored by concerned Co-ordination units/Sections.
- New Contractor Enlistment Management System module based on 'Rules for Enlistment of Contractors in CPWD 2021' has been launched and made functional. Improvements in CEMS module are being regularly & continuously done in order to enhance user satisfaction & experience, based on the suggestions received.

- CPWD 'Contractor Enlistment Management System' integrated with Invest India's flagship 'National Single Window System (NSWS)' Portal for enlistment of contractors for CPWD works.
 - Provision has been made in new Contractor Enlistment Management System for contractors to apply for Re-validation to existing Class/Category as per Rules for Enlistment of Contractors in CPWD 2021.
 - Completion Certificate cum Contractor Performance Certificate- A new module has been developed for online generation of contractor's Completion cum Performance Certificate for any completed work. The module is under testing by CE(CSQ) unit. After UAT testing, it will be made live 24/7 for tendering purpose, alike experience, etc. Such certificate is open for contractor to download as per sweet will for tendering purposes. At the same time the client & any other authority can in real time verify the certificate's authenticity in negligible time.
 - List of CPWD contractor as displayed in CPWD website has been linked with Contractor Enlistment Management System, so that as and when any new contractor is enlisted across the country in any Class and Category, it shall in real time be automatically updated in this list displayed for public viewing.
- Overall Quality Assurance Management System- As per requirement of Standing Committee of Parliament, provision has been made in WBPMS for uploading of inspection reports and their replies by Region/Sub-Region inspecting authorities. Provision has also been made for uploading of Third-Party Quality Assurance inspection reports and their replies.
 - Provision has been created for entering details in Occupancy Certificate in WBPMS module. Earlier there was provision only for selection of either 'Yes' or 'No' and then uploading of scanned copy of Occupation Certificate. Now information about such reports can be generated for all supervising officers in the hierarchy.
 - Modifications have been made in the existing Hindi Pranali reporting module in order to enable viewing of quarterly progress report prepared by various Sections under the various Head of the Offices in the CPWD Directorate.
 - Integration of PPAMS module of CPWD with DUAC/HCC portals has been completed to ensure seamless submission and receipt of required documents including raising and replying the queries.
 - Modifications in online examination application DEMPS module have been made to function to generate unique series of Roll Numbers, as per suggestions from NCA to clearly identify the station by seeing the Roll Nos.
 - Modifications in Schedule of Quantity Templates have been got carried out in e-tender wizard portal to pre-empt any possible misuse of existing templates for filling the rates of items and selection of normal/minus items.
 - Provision for use of Class III Digital Encryption Certificate has been made mandatory for uploading of tenders by Tender Inviting Authority and by bidders for submission of bids as per STQC & CVC e-procurement security compliance guidelines.

- Improvement in Vigilance module as per requirement sent by the Vigilance unit including creating the facility for empanelment of the Enquiry officers and modification in Annual property return statement as per DoPT guidelines.

15.41 Eco Friendly & Sustainable Initiatives

CPWD is committed to keeping pace with technological advancement and adopting indigenous, sustainable, energy efficient green and clean technologies in all our construction activities and is spearheading the construction industry in respect of environment friendly construction practices.

- CPWD has started its own rating system and the first edition of CPWD Green rating manual was released in 2019. The manual has been revised and updated with respect to the suggestions received and experiences gained. The 2nd edition of Green rating manual was released in 2021.
- CPWD has taken firm initiatives for generation of renewable energy in government buildings. Roof Top Solar PV Plants have been made mandatory in all new projects of CPWD. So far, solar plants totalling to 19.37 MW capacity have been installed in 194 government buildings.
- CPWD has taken a significant step towards energy efficiency by implementing replacement of conventional light fittings, fans & ACs with energy efficient fixtures in all its existing buildings. Till date retro-fitment/ replacement has been completed in 550 Government Office buildings resulting in saving of 1674 lakh units cumulatively of electricity and reduction in carbon dioxide emission of 1,50,740 Tons.



- Under India Cooling Action Plan, CPWD has been making sincere efforts to support the cause of reducing carbon footprint by reducing cooling demand in all its existing and upcoming projects through solar passive architecture and green design features.
- All new construction is being done with energy efficient fittings and fixtures. Bureau of Energy Efficiency (BEE) has star rated 37 CPWD Buildings on Energy Efficiency ranging from 2 star to 5 star up to December, 2021.
- To address the problem of depleting ground water resources, CPWD has made it mandatory to install Rain Water Harvesting system and Waste Water Recycling plant in all its major projects. So far over 1100 Rain Water Harvesting Systems have been installed.

- New campuses are being developed by CPWD with zero discharge and zero waste concept.
- To save water, dual piping system has been mandated in all new CPWD projects, wherein wastewater after treatment shall be used in cooling tower, horticulture and flushing.
- Comprehensive outsourcing of maintenance has been adopted, which has been found about 28% more economical than conventional maintenance with work charged staff. It has also increased user's satisfaction level above 95%.
- CPWD is already using C&D waste materials in its works in shape of sand, aggregates, bricks, PCC blocks, Paver Blocks etc. In Delhi, so far, more than 6850 Metric Tons of C&D waste materials have been utilized. This resulted in saving of equal quantity of natural stone and sand, reduction in CO₂ emissions by over 137 Metric Tons and saving in water use by 5400 kiloliters.

15.42 Accessible India Campaign

Under the 'Sugamya Bharat' Mission, CPWD has undertaken the massive task of making public buildings accessible. Under this mandate, CPWD has completed accessibility works of 211 Buildings of MoHUA. Accessibility works in 808 Buildings of other Ministries have also been completed by the CPWD.



15.43 Use of Modern and Innovative Technologies

CPWD took a leap in adoption of 46 new construction technologies and 14 E&M technologies which are both energy efficient and environment friendly. These new technologies are now being extensively used by CPWD in its projects and found to be fast, eco-friendly and in conformity with the green and sustainable development.

15.44 New publications / guidelines

- Plinth Area Rates 2021
- Analysis of Rates for Delhi 2021 : Vol- I & II
- Delhi Schedule of Rates 2021: Vol- I & II
- Rules for Enlistment of Contractors in CPWD 2021
- Floral Tableaux: A treasure Collection



15.45 Skilling and Health of Construction Workers

Skilling Mission has been taken as a social responsibility for unskilled workers engaged at construction sites. Provision skilling of construction workers has been increased in GCC from 20% to 30%.

15.46 Welfare of Construction Workers

Under the backdrop of MoU signed with CPWD Officers Wives Association (OWA) for welfare of the construction workers, so far, over a dozen health camps have been organized and equal number of crèches opened by CPWD OWA, which benefitted thousands of workers and their family members.

In pursuance of directives of PMO for providing hygienic living conditions to construction workers, CPWD has developed standard modules for workers shelter at construction sites. These designs and specifications of shelters have been circulated to all CPWD field units for erection at their work sites. These shelters, when provided at sites will facilitate comfortable and habitable living conditions for workers at worksites.



15.47 Enhanced Visibility of Department

- Newsletter of Department showcasing activities and achievements is being brought out on monthly basis with wide circulation to Clients and senior functionaries of the Government. This effort has been instrumental in increasing the awareness about CPWD.
- CPWD connected itself with social media through official twitter handle, face book and You Tube Channel.
- Regular interaction with the Electronic and Print Media on activities of the Department.

15.48 Swachh Bharat Mission Activities

- Under SBM, 92 Sewage Treatment Plants have been installed in the existing GPOAs and GPRAs maintained by CPWD.

- For Solid Waste Management, 79 Solid Waste Convertors have been installed in existing GPRAs/GPOAs.
- CPWD is doing waste segregation at source at different locations in Delhi and outside with the help of start-ups with no cost to CPWD.

15.49 Major reformative measures undertaken

- Constitution of the regional works boards streamlined for speedy disposal of tenders.
- Concrete steps have been taken to implement ERP in CPWD. Implementation of Enterprise Resource Planning (ERP) is going to revamp the functioning of the CPWD significantly by complete digitization of all activities in the department. It is a modular software system designed to integrate all functional areas of CPWD's work processes and all its stakeholders into a unified system.
 - Considerable progress for implementation of ERP has been made - ERP Implementation Website, Learning Management System, Digitization of Service Books, Person to Position Mapping of all employees of CPWD, Preliminary Estimate Application, DSR/DAR configuration on SAP, Leave Management/ Transfer & Posting / Unit Opening Closing Applications have been completed.
 - Full System has been targeted to Go-Live by December 2022.
- Comprehensive review of induction training: To develop professional competencies to meet new challenges of Technical Advancements and to develop multidisciplinary skills in newly recruited Engineers and Architects, comprehensive induction training policy with the approval of Ministry has been implemented. It is carried out to remove gaps and provide exposure on latest developments e.g. new technologies, ERP, Artificial intelligence and BIM etc.
 - Induction Training of Gr "A" increased to 52 weeks from 35 weeks / 16 weeks earlier.
 - Induction Training of Junior Engineer increased to 26 weeks from 6 weeks earlier.
 - Mid-career refresher training and Mandatory training before promotion introduced.
- Comprehensive maintenance has been outsourced to single agency for improved service delivery and client's satisfaction.
- Introduction of Central Public Procurement Portal (CPPP), Government e- Marketplace (GeM), preferential market access for micro and small enterprises, preference for domestic manufacturers, Contracts on EPC mode etc. for effective execution of works and delivery of services.
- Available human resources have been optimally deployed in the identified work centres to achieve maximum productivity.
- All due promotions, recruitments, MACPS, NFU and other issues of all cadres are being addressed on priority and effort is being made to grant them to all due officers. Further proposals are also being initiated.

15.50 Events

- 167th CPWD Annual Day celebrated on July 12, 2021 in the august presence of Shri Hardeep Singh Puri, Hon'ble Union Minister of Housing and Urban Affairs and Petroleum & Natural Gas, Shri Kaushal Kishore, Hon'ble Minister of State for Housing and Urban Affairs.



- As part of 167th CPWD Annual Day Celebration, CPWD organised a 'Technical Webinar' on July 12, 2021 in Nirman Bhawan, New Delhi. The webinar was chaired by Shri V K Jayaswal, Director General and attended by Shri Shailendra Sharma, Special Director General, Shri D C Goel, Additional Director General, and other senior officers of CPWD. During the webinar, technical presentations on various topics were made by the officers and other experts.



- Shri Durga Shanker Mishra, Secretary MoHUA inaugurated 'Miyawaki Tree Plantation' by planting native trees in Miyawaki Urban Forest at Sundar Nursery, New Delhi on August 07, 2021.



- CPWD in collaboration with InfoComm India organized a webinar on 'Functional Buildings and Infrastructure- the importance for Audio Visual' on May 28, 2021 at Nirman Bhawan, New Delhi. Shri V K Jayaswal, DG, CPWD chaired the webinar and was attended by Shri Richard Tan, Executive Director, InfoComm Asia Private Limited, Shri TS Gopalakrishnan, Country Manager, India AVIXA, Shri DC Goel, Additional Director General, CPWD and other officers of CPWD.



- CPWD in collaboration with Indian Society of Lighting Engineers organised a webinar on 'Introduction to National Lighting Code (Rev.2020)' on April 06, 2021 at Nirman Bhawan in the presence of Shri V K Jayaswal, Director General, CPWD, Shri Kamlesh Kumar, Additional Director General, Shri Ranjit Singh, Additional Director General, and other senior officers of CPWD. Dr. Rajat Mandal, General Secretary, ISLE was the eminent speaker during the event which was virtually attended by a large number of officers from CPWD and ISLE.



- Shri V K Jayaswal, Director General CPWD virtually graced the digital conference "Charting the way forward for construction sector in post COVID world" organised by CIDC on May 15, 2021. DG, CPWD in his address emphasized on the strategies which should be adopted and the actions which have to be taken both by industry and government to chart the way forward in a post COVID world. The event was attended by both Central and State government authorities, contractors, consultants and industry practitioners.

15.51 Azadi Ka Amrit Mahotsav

- National CPWD Academy organised a National Level Conference on the topic 'Indigenous Engineering Solutions in Construction for a Self-Reliant India' on October 28, 2021 at Nirman Bhawan, New Delhi. Shri Shailendra Sharma, Director General, CPWD chaired the conference which was attended by Shri M K Mahobia, Additional Director General, Shri N K Bansal, Chief Engineer, eminent speakers, representative from different participating organizations and construction industry and other officers of CPWD.



- CPWD Region Kolkata organized a webinar on '75 Architectural Marvels of India' on October 08, 2021 at Kolkata. Shri D K Garg, Special Director General, and Shri Rajesh Dhiman, Additional Director General jointly chaired the webinar which was attended by many practicing architects, professionals and officers of CPWD from across the country.



- CPWD Project Region Chandigarh organised a webinar on 'New Building Materials & Technologies' on October 01, 2021 at Chandigarh. Shri Shailendra Sharma, Director General, CPWD chaired the webinar which was attended by Shri Anant Kumar, Special Director General and many practicing professionals and officers of CPWD from across the country. Topics covered in the webinar: Optimized Steel Structures, Latest Engineering practices, Engineered Sand and Installation of Single Composite/Compact Module Type (PMTR) prefabricated STP-cum-ETP.



- CPWD organised a virtual webinar on "Technology in the field of Hospital Construction & Equipment's" on September 29, 2021 from 3:30 to 6:00 PM at New Delhi. Shri Shailendra Sharma, Director General, CPWD chaired the webinar which was attended by more than 200 CPWD officers. Topics covered in the webinar: Modular operation theatre (MOT), Medical Gas Pipeline System (SGPS), Nurse Calling System (NCS), Automated / Pneumatic Tube System (PTS/ ATS).



- CPWD organised a virtual webinar on "Future of CPWD with ERP" on September 27, 2021 at New Delhi. Shri Shailendra Sharma, Director General, CPWD chaired the webinar which was attended by more than 400 participants comprising CPWD Engineers, Architects and Officers of Ministry of Housing and Urban Affairs.



- CPWD Project Region Chennai organized a webinar on 'Architectural Marvels of India' on September 17, 2021 at Chennai which was attended by many practicing architects, professionals and officers of CPWD from across the country.





Swachhata Pledge

Mahatma Gandhi dreamt of an India which was not only free but also clean and developed.

Mahatma Gandhi secured freedom for Mother India.

Now it is our duty to serve Mother India by keeping the country neat and clean.

I take this pledge that I will remain committed towards cleanliness and devote time for this.

I will devote 100 hours per year that is two hours per week to voluntary work for cleanliness. I will neither litter nor let others litter.

I will initiate the quest for cleanliness with myself, my family, my locality, my village and my work place.

I believe that the countries of the world that appear clean are so because their citizens don't indulge in littering nor do they allow it to happen.

With this firm belief, I will propagate the message of Swachh Bharat Mission in villages and towns.

I will encourage 100 other persons to take this pledge which I am taking today.

I will endeavour to make them devote their 100 hours for cleanliness.

I am confident that every step I take towards cleanliness will help in making my country clean.

GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
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