



Government of India
Ministry of Housing and Urban Affairs



ANNUAL REPORT 2023-24



MINISTRY OF HOUSING AND URBAN AFFAIRS



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16.01 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 169 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.

16.02 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 road projects, fencing and flood lighting in difficult terrain under hostile conditions along borders.

16.03 The achievements and activities of CPWD during the year 2023-24 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.

16.04 Functions

- I. Major functions of CPWD are construction and maintenance of the built environment. Construction projects are of various types such as residential, office, schools, laboratories, hospitals, stadia, gymnasias, auditoria, storages etc. and infrastructure works such as highways, flyovers, tunnels, bridges, jetties, sports facilities, border fencing, airports, runways etc.
- II. CPWD maintains large building stock of General Pool Residential Accommodation and Central Government Office Buildings. CPWD is maintaining around 1.55 lakh Residential units and 75 lakh square metres office space.
- III. CPWD is also involved in discharge of multiple other 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, upkeep of historical and important monuments, structures and Samadhis etc.

16.04 Vision and Mission of CPWD

- 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.
- Endeavor is to achieve 25% annual growth in the workload by taking works of Ministry of External Affairs, Roads & Highways and State Governments.
- Adopt best construction practices and new technologies in construction and expand the Technical Advisory Role of the Department.

- Make presence of CPWD Engineers/Architects in various Ministries/ Departments of Government of India for rendering technical advice and works management.
- Discharge regulatory functions for the construction sector on behalf of the Central Government.
- Create and maintain the built environment by attaining highest standards of sustainability, quality and client's satisfaction.
- Construct all buildings as green and barrier free.
- Implement ERP in CPWD for complete digitization and real time monitoring of all activities.
- Establish a dedicated research, development and innovation centre at National CPWD Academy.
- Establish Green Rating, Energy Rating and Heritage Conservation Cell in the Department.
- 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.
- Periodic Updation of CPWD Works Manual, General Conditions of Contract, Delhi Schedule of Rates, Specifications and other publications of CPWD.
- 100% Comprehensive outsourcing of maintenance to provide highest user satisfaction.
- CPWD resolves to achieve customer satisfaction through quality, timely delivery and transparency in execution of works and delivery of services while adhering to the principles of sustainable development.

Organizational structure of CPWD

16.04 Central Public Works Department is headed by the Director General who is also the Principal Technical Advisor to the Government of India. DG, CPWD is assisted by Special Director General (SDGs) / Additional Director General (ADGs). Project Units 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.

16.05 Cadres in CPWD

- 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.
- 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.
- 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.

- 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.
- 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.
- Total employees' strength of CPWD is **14,596** which includes **1,345** Group 'A' officers, **5,730** Group B officers and **7,521** Group C staff including work-charge staff.

Functional units

16.06 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.

16.07 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).

16.08 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 under respected regional Special DGs/Additional DGs.

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

Specialized Units of CPWD

16.10 **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.

16.11 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.

16.12 **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.

16.13 **Enterprise Resource Planning (ERP) cum e-Governance Unit:** In line with Digital Initiative of Govt, e-NIRMIT (Nationwide Intelligent Resource Management with Information Technology) is being implemented in CPWD in a mission mode for digitization, real time monitoring and control of all activities of CPWD. Several Modules related to HCM, Maintenance and Project Work Life Cycle have been developed and implemented for prompt and efficient reporting and management.

16.14 **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.

16.15 **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. Vigilance Unit of CPWD is headed by the Chief Vigilance Officer who is of the rank of Joint Secretary to the Government of India from the Central Staffing Scheme. In addition to the vigilance set-up in the Head Quarter, CVO is assisted in the field by Deputy Chief Vigilance Officers of the rank of SE's posted in all regional offices of CPWD, who act as the nodal officers in monitoring of the vigilance related complaints and inquiries in their respective regions.

16.16 **Vigilance Awareness Week-2023:** All the employees at HQ in Nirman Bhawan and also all the employees of CPWD posted all over India has taken the integrity pledge on 30th October, 2023. To promote awareness among all stakeholders about the importance of vigilance in all spheres, posters designed and displayed on homepage of CPWD website. Essay, Painting, Slogan, Debate and Quiz competitions for the employees were organised in the Directorate on the main theme given by CVC i.e. **“Say no to Corruption; Commit to the Nation”**.

Work Performance of CPWD

16.17 **Actual Work Load of CPWD for the year 2023-24**

(₹ in Crore)		
Sl. No.	Description	Workload of Construction & Maintenance
1	Actual expenditure (April 2023– March 2024)	₹ 22,473

16.18 Some of the large single value projects entrusted recently to CPWD (₹ in Crore)

- Smart Township of HAL Helicopter Factory at Tumakuru Ph-I, Bangaluru - ₹192
- 100 Bedded Hospital and 32 Nos Staff Quarters for ESIC at Narsapura, Karnataka - ₹148
- 100 Bedded Hospital and 32 Nos Staff Quarters for ESIC at Harohalli, Karnataka. - ₹151
- 200 bedded hospital and 62 No Staff Quarters for ESIC at Bommasandra, Bangalore - ₹278
- Administrative block for Guru Ghasidas at Bilaspur - ₹189
- 100 Bedded ESIC Hospital & 32 Nos. Staff Quarters at Pithampur (MP) - ₹124
- Re- Development of RBI, Zoo-Narengi Colony at Guwahati - ₹448
- Residential & Non-Residential complex for RBI at Imphal - ₹250
- Office Cum residential complex for RBI at Aizawl - ₹200
- School of Engineering and Atal Bihari Vajpayee School of Management & Entrepreneurship at JNU Campus New Delhi - ₹142
- Redevelopment of General Pool Residential Colony at Srinivaspuri (Package-I), New Delhi - ₹1828
- Auditorium and Lecture Theatre complex, Boys Hostel for VMMC & Safdarjung Hospital at Kidwai Nagar, New Delhi - ₹233
- Academic block at Roshanpura, Najafgarh, New Delhi - ₹121
- Two Academic blocks in Delhi School of Economics Campus, University of Delhi - ₹247
- 84 duplex house for Hon'ble MPs at North Avenue, Phase II New Delhi - ₹325
- 300 Bedded Hospital building at Dr. YSPMC Nahan Distt. Sirmour (HP) - ₹372
- 476 bedded JIPMER, Karaikal Hospital (G+5), Puducherry - Phase II - ₹451
- 100 Bedded Hospital, 32 Nos Staff Qtrs for ESIC Hospital at Duburi, Jajpur- ₹165
- Hostel Block-H1 for IIMC at Joka, Kolkata. - ₹227
- 500 New Residential Flats at IIT Kharagpur - ₹400
- 900-Seater Boys hostel at SVNIT Campus Surat - ₹115
- Academic Building, Main Campus of IIT (ISM) Dhanbad. - ₹309
- Research Park (G+6) at NIRSA Campus of IIT(ISM) Dhanbad. - ₹220
- 144 unit of TYPE-II and 96 unit of Type- III at IIT (ISM) Dhanbad. - ₹158

Works Completed

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

	
<p>Hon'ble President of India inaugurated Skywalk at Shri Mata Vaishno Devi Bhawan at Katra on October 12, 2023</p>	<p>National Academy of Customs, Indirect Taxes and Narcotics(NACIN), Palasamudram (Andhra Pradesh) Inaugurated by Hon'ble Prime Minister of India on January 16, 2024</p>



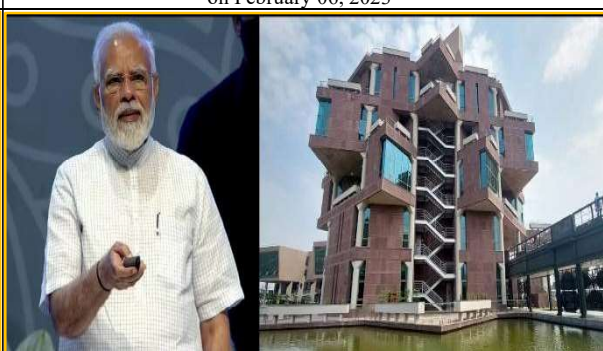
Hon'ble Prime Minister of India inaugurated the permanent campus of IIT Dharwad on March 12, 2023 at Dharwad, Karnataka



Hon'ble Prime Minister of India inaugurated New Helicopter Factory for Hindustan Aeronautics Limited (HAL) at Tumakuru, Karnataka on February 06, 2023



Hon'ble Prime Minister of India inaugurated the permanent campus of National Institute of Technology Goa on February 06, 2024



Hon'ble Prime Minister of India inaugurated Permanent Campus of IIT Bhilai on February 20, 2024



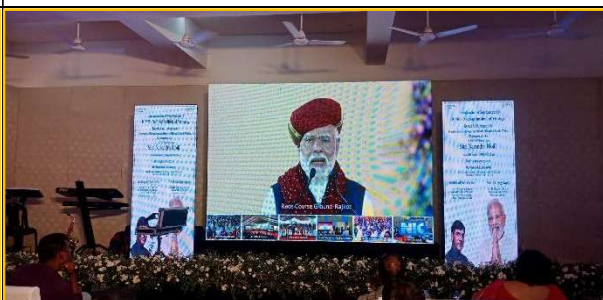
Hon'ble Prime Minister of India inaugurated Permanent Campus of Indian Institute of Science Education and Research (IISER) Berhampur through Video Conferencing on February 20, 2024



Hon'ble Prime Minister of India inaugurated Academic Blocks for IIT, Gandhinagar on February 20, 2024



Hon'ble Prime Minister of India inaugurated ESIC Hospital at Raigarh, Chhattisgarh virtually on February 25, 2024



Hon'ble Prime Minister of India inaugurated ICMR-National Institute of Virology at Alappuzha, Kerala virtually on February 25, 2024.



Smt. Nirmla Sitharaman, Hon'ble Minister of Finance & Corporate Affairs inaugurated GST Bhawan at Agartala on July 21, 2023



Shri Amit Shah, Hon'ble Minister of Home Affairs inaugurated Audio-Visual Class Room at Recruit Training Centre-5, CRPF at Rajgir, Nalanda, Bihar on August 18, 2023



Shri Hardeep Singh Puri, Hon'ble Minister, MoHUA, inaugurated GPOA-2, Kasturbha Gandhi Marg at New Delhi



Shri Sarbananda Sonowal, Hon'ble Minister of Ayush, Ports, Shipping & Waterways Inaugurated Panchkarma Building of Central Ayurveda Research Institute (CARI) at Guwahati on January 12, 2024



Shri Narendra Singh Tomar, Hon'ble Minister of Agriculture and Farmers Welfare inaugurated International Boys Hostel for ICAR-IARI at Pusa Campus, Delhi on July 03, 2023



Shri G Kishan Reddy, Hon'ble Minister of Tourism, Culture and Development of North Eastern Region inaugurated New Residential Building at National Police Academy, Hyderabad on April 05, 2023

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



Lieutenant General, Kaiwalya Trivikram Parnaik, Hon'ble Governor of Arunachal Pradesh laid foundation stone for the construction of Eastern Himalayan Faunal Repository (EHFR), Zoological Survey of India at Itanagar on October 26, 2023



Hon'ble President of India laid the foundation stones for Holiday Home at Rairangpur, Odisha on February 28, 2024



Shri V Kamakoti, Director, IIT Madras performed Ground Breaking Ceremony and Bhumi Pujan for the construction of Research Visitors Guest House at IIT Madras on May 24, 2023



Dr. Himanshu Pathak, Secretary, Department of Agriculture Research and Education and Director General, ICAR laid foundation stone for the construction of Residential Quarters and Main Gate for ICAR-National Institute of Biotic Stress Management at Baronda, Raipur on February 18, 2023

16.21 Some of the major works in progress

Construction of New Academic Tower, IIT Kharagpur



Construction of Research Visitors Guest house (G+8 floors) at IIT Madras



Construction of New Administrative Building AIIMS Bhubaneswar, Odisha



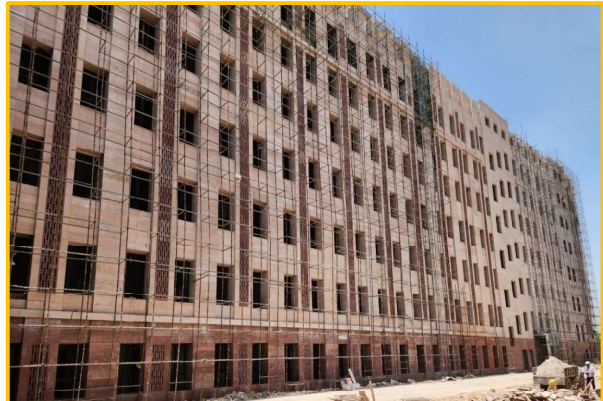
Construction of 150 Bedded critical care Hospital block at AIIMS, Patna



Construction of Type-C Housing- 5 Block at IIT Jodhpur



Construction of Administrative Building at AIIMS Jodhpur



Construction of Hospital Block at AIIMS-Awantipora



Construction of Phase-II Residential Complex in AIIMS Campus, Bhopal



Activities of CPWD in North East Region

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

16.23 ‘Region Guwahati’ of CPWD is headed by Additional Director General. CPWD Engineers and staffs have successfully delivered many projects in this region to the entire satisfaction of clients despite the limited accessibility, shortage of workers in some parts, tough working conditions and reduced working season. CPWD has its credit in 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 2023-24 CPWD achieved the work load of Rs. 807 Cr. and during this financial year i.e. 2024-25 CPWD is likely to achieve a work load of Rs. 757 Cr.

16.24 Some of the completed works in the year 2023-24

- Office Building for Power System Operation Corporation Ltd. Kahilipara, Guwahati.
- 100 Bedded Boys Hostel for Rajiv Gandhi University at Doimukh (Arunachal Pradesh)
- 120 Men Barrack (2 No.s) for SHQ, ITBP at Aalo, (Arunachal Pradesh)
- 120 Men Barrack (2 No.s) for SHQ, ITBP at Basar, (Arunachal Pradesh)

- Veterinary Hostel for Dogs & Horses with Class Room for Animal Training School for ITBP at Lohitpur, Arunachal Pradesh.
- STP (4 Nos 40KLD & 2 No. 25 KLD)for SHQ ITBP at Likabali, (Arunachal Pradesh).
- Transit camp Building for SHQ, ITBP at Likhabali (A.P).
- M.T. Garage Complex with Jawan Barack for SHQ, ITBP at Likhabali (A.P).
- Multipurpose Hall complex for SHQ, ITBP at Likhabali (A.P).
- Non-Residential Building for CTC, SSB, Saloniabri.
- Vertical Extension of boys' hostel (2 storied over existing single storied) and girls hostel at IHM, Shillong.

16.26 Some photographs of completed works:

- Film and Television Institute at Jollang-Rakap Village, Itanagar, Arunachal Pradesh.
- 200 bedded ESIC Hospital at Beltola, Guwahati (Assam).
- Office cum Residential Complex for Special Bureau at Shillong, Meghalaya.
- Administrative Building and Quarters for CBI, ACB at Mawdiangdiang, Shillong.
- JNV buildings at Mawsynram, Meghalaya.
- Regional Labour Institute at Shillong, Meghalaya.
- Pharmacy Building for North Eastern Institute of Ayurveda and Homeopathy at, Shillong.
- 100 Seated Women's Hostel Building, Warden Residence, Academic Building for Conducting Medical Programme at NEHU, Shillong.
- Residential quarters for 4th BN. ITBP at Sangti Dirang (Arunachal Pradesh).
- Two 120 men Barrack 4th Bn.,ITBP, Sangti, Arunachal Pradesh.
- Non-Resdl. Building at 30th Bn. Hqrs. SSB Dirang under FTR Hqrs. Guwahati.
- Residential Building at 30th Bn. SSB Dirang (Arunachal Pradesh).
- Main Campus of NIMAS at Dirang.
- Works at JNV Kiphire Phase-A, Nagaland.
- Residential quarters for 31st Battalion ITBP at Yupia (Arunachal Pradesh).
- Administrative Block, GOs Mess and Cement Approach Road at for NE Frontier, ITBP Khatting Hill, Itanagar
- 45 Rooms for ASI Accommodation at 20th Bn. ITBP Aalo (Arunachal Pradesh).
- Pharmaceutical Science Building at Assam University, Silchar, Assam.
- 593 nos. family quarters at GC, CRPF, Dayapur, Silchar.
- Multipurpose Academic Building at Assam University, Silchar.
- Administrative Block at KVK, Hailakandi.
- 20000 MT capacity Rail Fed Godown in Bihara in Cachar, Assam.

16.26 Some photographs of completed works:



Border Roads, Fencing & Flood Lighting Works

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

16.28 It is entrusted with construction of 34 Roads connecting to BOPs of BSF and BIPs of Intelligence Bureau (IB) in AOR of Jammu Frontier having length 61.55 Km respectively.

16.29 Some important works completed:

- Providing and installation of Border flood lighting on Indo-Pak border in Jaisalmer Sector, Rajasthan in shifting sand dunes area.
- Seven OP towers at BP No. 1164, 1165, 1166, 1169, Dafa, Vishnubet and Lakhpatwari in Creek area of Gujarat Sector at Indo-Pak Border.
- Link road from Chiriyamore to Biarbet in Gujarat Sector (27 kms).
- Earthen Bund, Road and Naka cum Fighting Bunker along existing fencing at International Border in Jammu sector.
- 34 Nos. RCC Naka Cum Machan Cum Fighting Bunker.
- Composite Earthen Bundh cum Ditch (26.76 KM) including Bituminous Road & RCC Naka (G+1) in 135 ft. width of land strip along existing fencing at Indo Pakistan International Border from BP No. 113 (Katao) to BP No. 51 (Bundhtip) in AOR of SHQ, BSF, Indreshwar Nagar in Jammu Sector.
- Plugging of gaps at GIN 508, 514, 515 & 515A by construction of 5 Nos. (G+2) RCC OP Towers including internal water supply, sanitary installation & 6 Nos. HML with PTZ Camera at GIN 514, GIN 515, GIN 515A and composite 3 row fencing at GIN 508 in Assam.
- Plugging of 18 nos. Nallah Gaps with RCC Box Bridge with Sluice and Fence under Udaipur, Gukulnagar, Teliamura & Panisagar Sector in Tripura. (A) GIN No. 590, 602, 603, 605, 607, 646 & 649 under Panisagar, Teliamura & Gokulnagar Sectors). (B) GIN No. GIN No. 697A, 697B, 698, 699, 701, 703, 706, 707, 708A & 708B under Udaipur sector.

16.30 Some photographs of completed works: -



16.31 Some important work in progress: -

- Providing 72 Nos HML with LED fittings in Jammu.
- Bridges/ culverts over river/ nallah in Punjab. (17 Nos gaps).
- High-Altitude Hill Road to Indo China Border for ITBP from Namgia Dogri Post to Lukma -I Post (via MM Ridge, Lukma-II) in the Kinnaur District of State of Himachal Pradesh
- High-altitude Hill Road to Indo China Border from Dumti Post to Nithalthach Post in the Kinnaur District of State of Himachal Pradesh.
- High-Altitude Hill Road to Indo China Border for ITBP from Silungla Base to ITBP Post Silungla Base in UT of Ladakh for ITBP. (Length- 13.20 Km)
- High-Altitude Hill Road to Indo China Border for ITBP from Nyakmikle to ITBP Post Nyakmikle in UT of Ladakh for ITBP (Length- 9.29 Km).
- High-Altitude Hill Road to Indo China Border for ITBP from Umlungzing to ITBP Post Umlungzing in UT of Ladakh for ITBP. (Length- 3.36 Km).
- Annual Repair and Maintenance of ITBP Roads to Indo-China Border in Ladakh. SH: Karzok to Chummar (Length – 70.085 km).
- Annual Repair and Maintenance of ITBP Roads to Indo-China Border in Ladakh. SH: Phobrang – Chartse – Pt. 4433 (Length – 73.985 km)
- Fence 23.435 Km and road 66.16 Km between BP No. 2270 to 2283.
- Up-gradation/replacement of old fence to New Design fence at SHQ Beharampore and Kishanganj in WB (Length- 127.50 km)

16.32 Some photographs of works in progress: -



16.33 New MoU's signed by CPWD:

- JIPMER, Puducherry on Feb 15, 2023 for construction of 150 bedded Critical Care Hospital for JIPMER, Puducherry
- Principal Controller of Communication Accounts Telangana on February 21, 2023 for renovation and upgradation of Sanchar Lekha Bhawan at Hyderabad
- AIIMS Raipur on March 17, 2023 for construction of Residential Complex (Phase-II) and Critical Care Hospital Block at Raipur.
- National Institute of TB and Respiratory Diseases (NITRD) on March 27, 2023 for development of NITRD campus in Delhi
- Institute of Advanced Study in Science and Technology (IASST) on March 28, 2023
- Central Bank of India on March 31, 2023 for construction of Multi-Storied Residential Accommodation at Chennai
- Heavy Vehicles Factory, Avadi, Chennai on July 27, 2023 for the construction of number of Projects at HVF Estate, Avadi, Chennai
- Sangeet Natak Akademi on August 14, 2023 for the construction of 500-Seater Auditorium Hall at Regional Centre of Sangeet Natak Akademi (SNA) at Hyderabad, Telangana
- JIPMER Puducherry on August 21, 2023 for the construction of hospital at JIPMER Karaikal
- NFSU on August 31, 2023 for the construction of various buildings at National Forensic Sciences University (NFSU), Gandhinagar, Gujarat
- Marudhara Gramin Bank on November 22, 2023 for the construction of their headquarter building in Jodhpur
- National Forensic Science University (NFSU) on November 24, 2023 for the construction of Permanent Campus of NFSU at Goa
- Central Sanskrit University (CSU), Sadashiv Campus on December 13, 2023 for the execution of works at Puri
- Punjab National Bank on December 12, 2023 for the construction of Rural Self Employment Training Institutes (RSETI) Building at Sikar, Rajasthan
- Central University of South Bihar - Official (CUSB), Gaya on December 29, 2023 for the construction of School of Law & Governance, Physical & Chemical Sciences, Business Studies & Management and Health Science at Gaya
- Shri Mata Vaishno Devi University (SMVDU) on December 22, 2023 for the construction of Academic Block and two hostels
- Delhi Police on February 06, 2024 for the construction of Delhi Police Works at different Location in Delhi
- Central University of Odisha (CUO) on March 06, 2024 for the new works of CUO

- National Institute of Pharmaceutical Education and Research (NIPER) on March 14, 2024 for the Construction/Upgradation of Research & other Institutional Infrastructure works at NIPER, S.A.S. Nagar, Mohali Punjab
- Ordnance Factory, Ministry of Defence on May 15, 2024 for Development of Major Infrastructure at Medak, Hyderabad

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

16.34 Enterprises Resource Planning (ERP) and e-Governance initiatives

- **ERP Initiatives:**

CPWD, under the guidance of MoHUA, has taken the initiative to migrate its entire operations to a cloud-based ERP so that such technologies can be leveraged for improved delivery of all projects and enhanced client satisfaction in our maintenance operations.

CPWD is continuously evolving its IT infra-structure for facilitating citizens, employees, contractors and clients through newly developed ERP applications and e-Platforms. ERP unit took many initiatives for easing the working and improving the efficiency in department. Most of them are completed and achieved. These applications shall be important milestone in realizing our Hon'ble Prime Minister's dream of a digital India and has the potential of serving as a lighthouse ERP Project for entire Public Works Ecosystem of Country. Brief details of achievements of ERP Unit in financial year 2023-24 are as under:

- **Online Record of Measurement (RFI Module) and MAS:** This module will enable online recording of measurement / material at site, their verification and test checking through generation of E-MB linked to online BOQs and Contract Agreement Control Data and will be replacing the present CMBs and physical MAS for all CPWD Works. This application provides platform for Contractors and CPWD Engineers for recording all measurements on real time basis and along with GPS Coordinates.
- **Raising an Observation (Notice for Hinderance, Raising an Observation) and EOT:** This module will enable online recording of all Site observations and Hinderances, their verification and compliances through generation of Online Hinderance Register and Site Order Book linked to Contract Agreement Control Data and will be replacing the present physical Hinderance Register and Site Order Book for all CPWD Works. This application provides platform for Contractors and CPWD Engineers for recording all Site observations and Hinderances on real time basis.
- **Rescheduling of Milestone:** This module will enable online recording and Approvals processes of Rescheduling of Milestones in CPWD Works. Here, Acknowledged Observations with Hindrance will be utilized in applying Rescheduling of Milestones which will follow the approval process from Competent authorities.
- **DSR & DAR :** This application enable the user to prepare online Estimates, BOQs and Non-schedule items and creates a Data Bank at PAN India level to ease preparing of any estimates, BOQs and extra items etc. using the Online DSR DAR Module and will be replacing use of Physical DAR DSR Books. This application will be having real time updation.

- **Estimation from 2D – 3D Drawings:** This application enables to prepare online Estimates, BOQs using the 2D-3D Drawings on Collaboration and Estimation Platform wherein various items need to takeoff directly from Drawings to get the Quantities.
- **Justification & Analysis of Rates:** This application enables to prepare online Justification of Rates of Tender received for reasonability of rates. This system shall have provision to analyse the available data from tender quotes.
- **Contractor Workman Management:** This application shall be used for onboarding and marking of attendance of all Workers engaged by Contractors in CPWD Works. This application will restrict the duplicate entry of same worker in many Works and identify the entry of bogus workman being engaged in CPWD works.
- **Client Project Owner Onboarding:** This application enable the client (Project Owners) organizations to be onboarded on ERP platform for faster and effective communication with CPWD offices. This application shall enable the client (Project Owners) to perform their duties like sending the requisition, reviewing the preliminary drawings etc.
- **Govt. Building Maintenance Management:** This application enables CPWD service centre to effectively manage the service complaints received from the residences. This application has been integrated with CPWD Sewa.
- **Online Refund, Collection and Forfeiture of EMD in E-Tendering System:** This application enables CPWD contractors and offices for online collection, refund and forfeiture of EMD in e-Tendering system making this process faster and free from errors. This application has been integrated with SBI. This application will reduce the engagement of CPWD staff in various activities like collection, verification etc. of EMD documents, hence saving time.
- **ERP Transfer Posting Module:** This application shall be used by the CPWD Directorate and coordination units for implementing the process of transfer and posting of all concerned employees. This application ensures compliance of rules and regulations regarding transfer and posting process thereby ensuring effective utilization of Human Resource in the organization.
- **Request/Representation for Transfer by Employees:** This application shall be used by the CPWD employees for submitting choices for their transfer and posting.
- **Claim and Reimbursement Module:** This application shall be used by the CPWD employees for processing of various Claims for reimbursements. This application will ensure timely approvals and settlement of personal claims resulting in meagre grievances and Court Cases.
- **Retirement/VRS and Techinal Resignation Module:** This application shall be used by the CPWD employees for processing of their resignation or Voluntary Retirements. This application will ensure timely approvals and settlement of Claims resulting in meagre grievances.
- **Payroll Module:** This application enables generation of payrolls / pay slips of all CPWD employees in ERP.

16.35 Trainings by ERP Unit

- **Train the Trainers:** This year 9 batches of Train the Trainers workshop was conducted at NCA Ghaziabad. 500 nos. of officers were trained at NCA Ghaziabad who further trained 8506 nos. of employees and contractors of CPWD.
- **ERP Workshops:** ERP unit conducted training at various places at Chennai, Mumbai, Kolkata, Guwahati, Gandhinagar, Jammu, Patna, Jaipur, Ranchi, Bhopal, Dehradun, Chandigarh, Bangaluru, Jodhpur, Hyderabad, Nagpur, Allahabad, Kozikhode, Shillong, Kochi, Bhuwaneshwar, Mysore, Raipur, Varanasi, Trivandrum, Madurai, Jalandhar, Siliguri etc. and has trained 1485 nos. of contractors and 1265 nos. of officers

Eco Friendly & Sustainable Initiatives

16.36 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.

16.37 Use of renewable energy

- CPWD has taken initiatives for generation of renewable energy in Government Buildings, Roof top Solar PV plants have been made mandatory in all new projects. Installation of 20 MW capacity solar power plants in 194 Government Buildings has been completed till date. Further, all field units have been directed again to take up Solar PV plants in GPOA and Non-GPOA buildings in remaining buildings and new projects as per the site feasibility.



Implementation of Energy Efficiency Measures in Government Building

- Replacement of conventional light fittings, fans & ACs with energy efficient LED light, fans and ACs in 550 Government Office buildings completed till date resulting in saving of 1674 lakh units cumulatively of electricity and reduction in carbon dioxide emission of 1,50,740 Tons. It is expected that there will be reduction in carbon dioxide emissions upto 3,34,046 Tons cumulatively upto 2024.
- Direction has also been given to field units for ensuring compliance to India Cooling Action Plan directives to reduce cooling demand in the existing and upcoming projects and thus reduce consumption of electrical energy.
- 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.

- New campuses are being developed by CPWD with zero discharge and zero waste concept.
- 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.

16.38 Accessible India Campaign

- The Government of India formulated the National Policy for persons with disabilities in February 2006, with the aim of ensuring equal access and opportunities for PwD. In line with this policy, the Ministry of Housing and Urban Affairs have issued revised "Harmonized Guidelines and space standards for Barrier free Built Environment for persons with disability and elderly persons" in December 2021. These guidelines were subsequently notified vide Gazette Notification on 18th October 2022.
- The Central Public Works Department has taken proactive steps to comply with the accessibility provisions outlined in the guidelines. All regional offices were directed to modify lifts by incorporating audio announcements and visual display of floor numbers from inside the lift. Additionally, emergency evacuation routes for PwD should be appropriately displayed with signage announcements in Braille language.
- Retrofitting measures have also been initiated in existing public buildings to enhance accessibility. These measures include the installation of ramps with handrails, tactile paths and warning strips for vision-impaired individuals, bright colour contrast for those with low vision, large lettering and information display, lifts with lowered control panels with Braille and raised control buttons, and auditory signals. Furthermore, resting areas for senior citizens and disabled persons, well-lit corridors, widened gates to accommodate wheelchair users, and audio announcements with dynamic displays and sensory door closing mechanisms are being implemented.
- Under the Sugamya Bharat Mission, the Central Public Works Department has already completed accessibility works in 211 buildings of the Ministry of Housing and Urban Affairs. In addition, accessibility works in 889 buildings of other ministries have been completed, and 1100 Central Government Buildings have been targeted and completed for accessibility upgrades under the Accessible India Campaign.



Use of Modern and Innovative Technologies

16.39 CPWD, while keeping pace with the technological advancement is also committed to encourage environment friendly construction practices. It has taken initiative of adopting 50 new and emerging construction technologies (Pre-cast RCC construction, Monolithic concrete construction, Tunnel form construction, Pre – engineered metal building construction etc.) and 22 E&M technologies (Human centric lighting, Chiller Plant Manager for Energy Optimization, Geo Thermal Heat Exchange System, Chilled Beam System for HVAC etc.) which are now being extensively used in our projects. These systems are found to be fast, efficient and eco-friendly and in conformity with the green and sustainable development.

New publications / guidelines

16.40 As a part of up-gradation of systems and processes of CPWD, following revised CPWD Publications have been brought out:

- Maintenance Manual - 2023
- General Conditions of Contract (GCC)for Maintenance Works 2023
- General Conditions of Contract (GCC)for EPC Projects-2023
- General Conditions of Contract (GCC)for Construction Works-2023
- Rules for Enlistment of Contractors in CPWD -2023
- Plinth Area Rates-2023
- Analysis of Rates for Delhi-2023 Volume-I &II
- Delhi Schedule of Rates (DSR) 2023- Volume-I&II
- CPWD General Specifications for Electrical Works-2023 (Part-I-Internal) & (Part-II-External)



16.41 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.



16.42 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 most functionaries of the Government. This effort has been instrumental in increasing the awareness about CPWD amongst the clients.
- CPWD connected itself with social media through official twitter handle, face book, You Tube Channel, Instagram and Koo.

Major reformative measures undertaken

16.43 Functioning of the CPWD significantly revamped and improved owing to initiatives taken as under:

- Timelines for pre – construction & construction activities and monitoring/ review by ADG/SDG concerned and ADG (works) have been issued.
- To ensure transparency in tenders, earnest money deposit (EMD) and refund of EMD has been made online for CPWD divisions C, E, I, N and central secretariat under ADG (Delhi) as pilot cases.
- To ensure quality, the bidders have to submit an undertaking on structural stability and soundness of already completed buildings and infrastructure projects.
- Building information module (BIM) has been made mandatory for all projects costing Rs. 30 Crore and above.
- To improve effectiveness efficiency and transparency clause 12 has been simplified and timelines have been fixed for sanction of extra / deviation items. This will reduced disputes and arbitration / litigation cases.
- Clause 5 regarding extension of time has been modified and all hindrances are now to be submitted online/ERP by the contractors and officers have to accept or reject the hindrances within time frame.
- The revised criteria for empanelment of arbitrators approved by MoHUA and issued through office OM No. 2/2024/Empanelment/SE(TLC)/CSQ/10 dated 25.01.2024.

Events

16.44 To commemorate the 169th anniversary of Central Public Works Department, a function was organized in Vigyan Bhawan, New Delhi on July 12 2023. Shri Kaushal Kishore, Hon'ble Minister of State for Housing and Urban Affairs was the 'Chief Guest' and Shri Manoj Joshi, Secretary, Ministry of Housing and Urban Affairs graced the function as 'Guest of Honour'. During the CPWD's Annual Day function, several technical publications including Nirman Bharati annual magazine released and ERP e-modules launched. In addition, Best performers and Best projects were recognized and awarded Medals and Certificates.



16.45 International Yoga

Day: On the occasion of International Yoga Day on June 21, 2023, officials of CPWD participated in the celebration at Vigyan Bhawan, New Delhi and actively took part in it. All Regions headed by SDG/ ADG of CPWD as well as Zone and Circle headed by Chief Engineer and Superintending Engineer have organised Yoga related events at their respective places. It was attended by large number of CPWD employees with great enthusiasm.

16.46 **Special Campaign 3.0:** As a part of the ongoing Special Campaign 3.0 from 1st October to 31st October, 2023, Cleanliness drive was undertaken in all offices and residential campuses and Shramjeevis campuses maintained by CPWD.

16.47 **Constitution Day 2023:** On the occasion of ‘Constitution Day, 2023’ to commemorate the adoption of the Constitution of India, officials of CPWD read the preamble to the Constitution on November 24, 2023 in Nirman Bhawan, New Delhi and across the country.

Webinars & Workshops

16.48 CPWD in collaboration with SINTEFF Norway organized a one-day workshop on ‘Recent Development with Recycling and Use of Construction & Demolition Waste’ in Vigyan Bhawan, New Delhi on February 19, 2024. Shri Hardeep S Puri, Hon’ble Minister of Housing and Urban Affairs & Petroleum and Natural Gas inaugurated the workshop in the gracious presence of Ms. May-Elin Stener, Hon'ble Norwegian Ambassador; and Shri Manoj Joshi, Secretary, MoHUA.



➤ **Technical Presentation on Geopolymers - industrial byproduct based eco-friendly low carbon footprint**

A Technical Presentation on Geopolymers - industrial byproduct based eco-friendly low carbon footprint binders as alternate to Portland cements and petroleum based organic resins’ by Shri N P Rajamane, Former and Founder Head of AML-CSIR-SERC and CACR-SRMIST and Dr. Ghanshyam Pal, Faculty, Shiv Nadar University Noida was given on March 07, 2024 in New Delhi.

➤ **2nd Meeting of Task force for promotion of innovative building construction technologies and materials**

CPWD organized 2nd Meeting of Task force for promotion of innovative building construction technologies and materials on August 04, 2023 at New Delhi.

➤ **Training on capacity building for Building Information Modelling (BIM)**

CPWD organized first hands on training on capacity building for Building Information Modelling (BIM) in CPWD from October 25 to 27, 2023 at National CPWD Academy, Ghaziabad.

➤ **Workshop on “Green Credits Programme and Environmental Social Governance (ESG) Frameworks for Sustainable Development”**

CPWD organized a workshop on “Green Credits Programme and Environmental Social Governance (ESG) Frameworks for Sustainable Development” at New Delhi on November 16, 2023.

➤ **Symposium on Precast & Pre-Engineered Construction**

A Symposium was organized on Precast & Pre-Engineered Construction (Hybrid Mode) - use of fast and durable concrete panel system. Presentations were made by the Japanese delegation on December 07, 2023.



सत्यमेव जयते

Government of India Ministry of Housing and Urban Affairs

