Golden Jubilee Year

1970 - 2020

hudco

Golden Jubilee Year
"By far the greatest and most admirable form of wisdom is that needed to plan and beautify cities and human communities"

Socrates
“Excellence is never an accident. It is always the result of high intention, sincere effort, and intelligent execution; it represents the wise choice of many alternatives - choice, not chance, determines your destiny.”

Aristotle
Housing and Urban Development Corporation Limited is a central public sector enterprise that is well known in the country as the unique financial institution that has delivered “profitability with social justice”. In its 50 years long journey has remained true to its commitment to the cause of affordable housing for the poor and Economically Weaker Section (EWS) households without compromising the financial bottom line of the organization. HUDCO has played an important role in shaping the present urban landscape of India. It is noteworthy, that HUDCO’s contribution in doing so is not limited to financing prestigious and pioneering projects across length and breadth of India but equally important, if not more, has been its impact as a consultant in ‘designing’ the built form in Indian cities. Since its inception in 1970, the team of architects, engineers and planners in HUDCO believed in the role and relevance of design for a sustainable habitat, communities and quality of life. The same was the institutional conviction which was put in practice by providing design support and capacity building to its clients who sought financial assistance for project implementation. One of HUDCO’s pioneering intervention has been to introduce innovative design as well as cost effective and energy efficient building material and technology in housing that had the dual benefit of reducing the cost of construction and the long term environmental impact of lower energy usage and carbon footprints. Over the years, HUDCO has diversified its role as a design consultant and have its footprint in almost all states in India. Preparation of master plan for cities with diverse functional character and socio-economic challenges to heritage led development and conservation, planning for World Heritage Sites, institutional buildings of national importance to tourism destination plan and design of tourism infrastructure and amenities, from environmental impact assessment to solid waste management – there is hardly any dimension of sustainable urban development wherein HUDCO has not ventured and made an impact. Infact, it is pertinent to mention here, two of the most successful projects in India demonstrating ‘land as a resource’ concept was implemented by HUDCO. The August Kranti Bhawan Complex and the Andrews Ganj project are the successful initiatives that also stand tall as a phenomenal work of urban design and architectural landmark.

Not just its spatial outreach, the scale of diversity of the projects handled is a testimony of HUDCO’s capabilities and leadership qualities, which has grown from strength to strength over the last few decades. The achievements of HUDCO has also been honored with awards and appreciation both at national and international level. This book provides a snapshot view of the road travelled by HUDCO Consultancy and its impact in shaping the urban landscape in India. It is also an expression of commitment and willingness to carry forward the good work done by HUDCO in collaboration and with support with its business partners and all stakeholders for sustainable urban development.

M. Nagaraj
Chairman & Managing Director, HUDCO
Touching Hearts.....
Housing and Urban Development Corporation Ltd is a premier techno-financial organization set up in 1970. It has the mission to promote, establish, assist, collaborate and provide consultancy services for designing and planning of projects relating to housing and urban development programmes in India and abroad. The corporate vision of HUDCO is “to be a leading techno-financial institution promoting sustainable habitat development for transforming the lives of people.”

HUDCO Consultancy is one of the most eminent multidisciplinary consultancy services in urban sector in India. HUDCO team consists of professionals from a wide range of disciplines including architecture, urban and regional planning, urban design, engineering, GIS experts, ecology, economics & conservation. Drawing upon its strength of multidisciplinary team and project experience of five decades, HUDCO provides integrated and sustainable solutions to planning and design challenges in urban sector and for all stages of project cycle – conceptualization to project delivery with emphasis on the local conditions & peoples priorities.

HUDCO aims to create livable and sustainable cities through pragmatic solutions that reflect the local culture and ethos.

…..Transforming Lives
CORPORATE VISION

"TO BE A LEADING TECHNO-FINANCIAL INSTITUTION PROMOTING SUSTAINABLE HABITAT DEVELOPMENT FOR TRANSFORMING THE LIVES OF PEOPLE"

IN ITS PURSUIT OF FULFILLING THE STATED CORPORATE VISION, ONE OF THE MAIN OBJECTIVES OF HUDCO IS

“TO PROMOTE, ESTABLISH, ASSIST, COLLABORATE AND PROVIDE CONSULTANCY SERVICES FOR DESIGNING AND PLANNING OF PROJECTS RELATING TO HOUSING AND URBAN DEVELOPMENT PROGRAMME IN INDIA AND ABROAD”

HUDCO OFFERS SUSTAINABLE SOLUTIONS SPECIFIC TO LOCAL CONDITIONS AND PEOPLE’S PRIORITIES.

CONSTRUCTION & CONSULTANCY (C&C) DEPARTMENT

The Construction and Consultancy (C&C) Dept. of HUDCO has a team of qualified and experienced professionals from diverse background such as architects, planners, landscape experts, geographers, engineers, valuers, GIS expert and other allied professionals that form the core team. The journey of technical consultancy services by HUDCO to its client started way back in 1970s, almost since inception of HUDCO. The beginning of consultancy services was necessitated by the lack of required set of skills and expertise in many governmental agencies who were potential borrowers of HUDCO. The multi-disciplinary and competitive team of professionals in the current C&C department is the manifestation of 50 years of professional commitment and a rich legacy of pioneering projects executed by HUDCO in the urban sector. The team has an illustrious portfolio of projects pan-India, which are of national importance and repute, and have impacted the urban landscape and made a significant impact in the holistic development of the country. The Regional Offices of HUDCO with their presence in all state capitals has added to HUDCO’s versatility and outreach making it the premier techno-financial organization in the country.
The Architectural Consultancy team in HUDCO has close to five decades of experience in designing group housing projects, low income group housing, slum rehabilitation and redevelopment, rehabilitation of natural and man-made disasters victims, institutional, commercial, tourism, conservation and site management plans. It has a pan-India footprint and national and international recognition of its work.

HUDCO offers comprehensive architectural services for a wide array of development projects. The team comprises of architects and engineers with varied specialization and enables HUDCO to successfully deliver projects of diverse nature and of wide ranging scale.

The overarching objective and approach of the architectural consultancy is to use efficient design and building materials to ensure technical excellence, cost effectiveness, energy efficiency, resilience, climate responsiveness, social well being and an improved quality of life.

The design process of HUDCO encourages active participation of the client and works in complete accordance with the expected time frame and budget.

The design team of HUDCO has successfully completed more than 300 projects of wide ranging scale and types across India. From designing high density low rise housing for economically weak, culturally relevant and feasible design for disaster affected victims with physical disability, responding to the challenges of designing a cultural complex in high seismic zone and site management plan for World Heritage Sites, tourism infrastructure and landscaping of botanical gardens, HUDCO has successfully demonstrated its versatility and spatial outreach.

Some of the recent completed / ongoing projects of HUDCO are:

- Corporate Office of Archaeological Survey of India, New Delhi
- Corporate Office of HUDCO, Ahmedabad
- Pilgrim cum Cultural Complex, Namchi
- Tourist Facilities & Infrastructure at various places in Puducherry
- Staff Housing for HAL Employees, Bengaluru
- Vertical Housing Colony, Srinagar
- HSMI Building, NOIDA
- Shopping Complex, Fatehpur Sikri
- Shopping Complex, Imphal
- EWS Housing in NE India
- Renovation of Botanical Garden, Puducherry

DESIGN APPROACH

ARCHITECTURAL CONSULTANCY
Archaeological Survey of India, a government agency, responsible for archaeological research and the conservation and preservation of cultural monuments in the country, offered the prestigious assignment of designing their new corporate office at Tilak Marg, New Delhi in a plot measuring 1.04 ha falling within the Lutyens zone in Delhi. The major design challenges included incorporating functional efficiency in view of the typical tasks carried out by ASI that is contextual and in harmony with the predominant colonial architecture style of the region. It was also important that the design commensurate the stature of ASI as an organization and its mammoth task as the custodian of built heritage in India. Accordingly, the external form of the building is designed to blend with and reflect the colonial architecture style of Lutyens Delhi. It is planned as curvilinear building to blend with the existing structure. Named as Dharohar Bhawan, the building was inaugurated by Honorable Prime Minister of India Shri Narendra Modi.
Human Settlement Management Institute is the research & training wing of HUDCO that conducts training for in-house professionals, officers of ULBs and other government agencies. In collaboration with ministry of External Affairs, HSMI also conducts training for international participants especially from SAARC & African countries. A state of the art training institute has been designed and under execution in NOIDA that blends functional efficacy with aesthetics and energy efficiency.

Spread on a 4.0 Ha. site, the project comprises of main office building, guest house block, annex, and an auditorium planned and arranged around a beautifully landscaped area with open air theatre, green mounds and water body.

Regional Offices of HUDCO

As a part of its expansion strategy, HUDCO is in the process of construction of its own offices across state capitals, which are in various stages of implementation with a few being completed and occupied and functional. The design for these buildings are done in-house.

The design focus of these buildings are primarily to reflect the institutional ethos of cost and energy concerns and live up to the image of HUDCO as the premier techno-financial institution in the country.
The Proposed Shopping Complex is one of the Asia’s largest all Women Market located at old district hospital, BT road, Imphal, Manipur.

MAHUD, Govt. of Manipur engaged HUDCO for preparation of DPR for this Vibrant project. The Design aims to rehabilitate at least 548 Women Vendors in to a modern mall type complex with site admeasuring 3.29 acres. The design concept majorly focuses about the present and future needs of the users. Facilities like Centralized food courts, crèche, cooking/feeding rooms, bank, health centre etc., are provided efficiently. Large atriums covered with glass skylights are introduced to maximize ventilation. Common points are introduced as points of convergence. Terraces at higher floors are designed to accommodate flea markets/stalls

**SALIENT FEATURES**
- Sustainable Planning
- Sustainable building material and technology
- Rain Water harvesting
- Renewable Energy Technologies, Waste water Management
- STP : Sustainable Microbial Anaerobic Reactor Technology (OS SMART)
The Pilgrim cum Cultural Centre in Namchi, is located on top of the hill at Solophok and spread over 7 acres of land. The focal point of this complex is the 108 ft. statue of Lord Shiva on a sitting posture in Solophok hill. The complex has replicas of twelve jyotirlingas and char dhams – all places of religious pilgrimage for Hindus. It also has other facilities like VIP guest house, yatri niwas, auditorium and other tourist amenities. The place has become a major tourist attraction for local as well as other tourists from all over India, thereby impacting the local economy. HUDCO has received Indian Building Congress Award for this project.
The temple town Thirunallar is a small town where the centre of focus is the temple of Lord Darbaraneswara. The tourist footfalls in the town exceed 10 lakhs during the Sanipeyarchi Festival. Surveys and studies inferred that there was an urgent need to develop a queue complex and a systematic way to hold pilgrims in groups at various places in the inner core, within walking distance from the temple. The queue complex was planned be a self-contained unit with all basic amenities, administrative building, shopping along the queue avenue, locker facilities, tourist information centre, accommodation booking office, ticket counter for darshan and recreational and cultural zones with pedestrian spaces.

Thirunallar Queue Complex was awarded “Outstanding Public Utility Building Project in Puducherry UT” by the Indian Concrete Institute (Puducherry Chapter) in 2016.

RIVERSIDE SHOPPING & TRAFFIC INTERCHANGE NODE, BODHGAYA

The Shopping Complex was designed and constructed to accommodate the shops that were proposed to be relocated from the vicinity of the World Heritage Site of Mahabodhi Temple complex to a site out of the heritage zone but with necessary safeguards so as the livelihood of the shop owners were protected. In keeping with the built form in the town of Bodhgaya and its religious legacy, the complex imbibed essential features of Buddhist architecture. The complex is designed in a cluster layout format and accommodates shops of varied types and scale. It also includes other amenities like food court, open pavilion and parking facilities.
**SHOPPING COMPLEX AND INTERPRETATION CENTRE, FATEHPUR SIKRI**

HUDCO has planned and designed several recreational and tourism related projects across many states in India and of different nature and category. HUDCO has worked on heritage led tourism including world heritage, religious tourism as well as tourist sites of natural beauty. HUDCO has also prepared DPRs for destination tourism and regional tourist circuits connecting various places of tourists importance. The high points of tourism planning by HUDCO is its emphasis on sustainability, local economic development, conservation of natural & built heritage spread over a plot area of 8.18 ha.

The design elements and materials are chosen with careful consideration to create a Mughal architectural style so that the complex with all its elements are in complete harmony of its surrounds.

**RENOVATION AND BEAUTIFICATION OF THE BOTANICAL GARDEN OF PUDUCHERRY**

HUDCO won competitive bid and was awarded the landscape work for renovation and beautification of the botanical garden of Puducherry that was established by the French in 1826 and was severely damaged by the cyclone Thane in 2012. The renovation and beautification work taken up by HUDCO has enhanced the recreational cum educational values of the garden by introducing various elements and landscape features within the existing layout in order to attract the visitors to the world of plants and subsequently to impart knowledge and raise a consciousness of plant conservation.

**DESIGN & DEVELOPMENT OF COTTAGE & ALLIED FACILITIES AT VIVEKANANDA KENDRA, KANYAKUMARI**
SPIRITUAL TOURISM CIRCUIT DEVELOPMENT, PUDUCHERRY

This is unique project of developing and designing a Spiritual Tourism Circuit Development Plan conceptualized under the government programme - “Spiritual Circuit of Swadesh Darshan”. It has multiple sites and mainly covers the prioritized spiritual destinations at Puducherry and in Karaikal. The overarching objective of the design exercise is to provide spiritual experience to tourists and the scope includes adequate planning for infrastructure and amenities, aesthetics and landscape for an all round blissful experience.

The six sites for the project:
1. Kokilambal Thirukameswara Temple, Puducherry
2. Gangaivaraganatheeswarar Temple, Thirukanchi, Puducherry
3. Spiritual Park at Thirunallar
4. Sacred Tanks At Thirunallar
5. Sri Badra Kali Amman Temple, Ambagarathur
6. Jadapureswarar Temple, TR Pattinam, Karaikal

Each component has multiple design input element ranging from entry gate to landscape, rejuvenation of sacred water bodies, tourist amenities and facilities, amphitheatres, meditation zone etc.

One of the major components of this tourism circuit development project is the restoration and beautification of the sacred ponds / waterbodies around this spiritual / religious centres.
AFFORDABLE HOUSING FOR LOW INCOME GROUPS

HOUSING PROJECTS

EWS Houses for SC/ST Beneficiaries, Puducherry & Karaikal,

Community Housing Habitat-Gangimadhi, Gadag, Karnataka

Cuncolim, Goa- A Redevelopment Housing Habitat

Housing For Municipal Scavengers, Shivamoga, Karnataka

Housing Project For The Gas Tragedy Victims, Bhopal

Chennai slum redevelopment

Atal Ashray Yojana at Girgaon, Gwalior, (M.P.)

LIG Demonstration Housing Project At Pimpri-Chinchwad, Maharashtra

HUDCO’s focus and typical design approach for EWS and LIG
HUDCO’s contribution in the field of Incremental Housing, Cluster Planning, Low-rise high density development, application of appropriate and cost effective technologies has come in for much acclaim for sensitively catering to the needs of weaker sections and low income housing.
The project was a landmark for low income housing projects due to its incremental low rise high density development approach.

HUDCO received a project award for Excellence in Architecture from the Indian Institute of Architects for the project in 1990. The project was also nominated for Agha Khan International Award and as one of the five nominees for World Habitat Award, U.K. Subsequent to the project, the cluster planning approach gained acceptance for low income housing all over the country.

**LOW INCOME HOUSING PROJECT AT PIMRIM CHINCHWAD, PUNE**

Low Income Housing Project at Pimpri-Chinchwad, Pune is an example of HUDCO’s effort to be user sensitive to achieve user satisfaction. This cluster housing project for low income households designed by HUDCO was an conscious attempt to resurrect the concept of ‘wadas’ – a traditional typology of housing in Pune, that promoted social interaction and cohesion. The physical form promoted was also conducive to the lifestyle that struck a balance between privacy and social interaction. The project demonstrated feasibility of low-rise high-density development planning, in the context of the needs of the low income families.

The buildings designed were ground and one storeyed structures with 16 houses clustered at two levels around an open space. At each level every house had the provision to add a second room. The layout also provided for shopping corners at crossroads – linking facilities, pedestrian movement and open spaces.

An interesting innovation achieved through this project was the adoptability of the prefab system to the needs of low-income housing giving benefits of both speedy construction and quality. This project was specially noted for using pre fab system without compromising the aesthetics. The Project won the JIIA award in 1992.
GROUP HOUSING FOR HAL EMPLOYEES, BENGALURU

HUDCO was assigned the prestigious project of designing the staff rental housing for HAL, Bengaluru. The project is spread over three different plots. The highlights of the housing project is its green features focusing on appropriate building orientation and site sustainability. The project showcases suitability and applicability of high rise medium density and low rise low density depending on the varied needs of the end users. The project is registered with GRIHA/IGBC and designed with host of green sustainable practices to reduce environmental impact.

VERTICAL HOUSING SHEHJAR APARTMENTS, SRINAGAR

The project located in Bemina, Srinagar, Jammu and Kashmir, is designed as climatically responsive building based on the local style of architecture. The towers are arranged overlooking the landscaped central courtyard. Dwelling units design is conceived from the traditional and cultural aspects of the users. Also amenities like Community Centre, Shopping Centre and Place for Worship etc. are provided. Parking facilities are restricted to stilt and periphery road of the site for a free pedestrian movement in the central courtyard.
The proposed Interior works for Coalition For Disaster Resilient Infrastructure (CDRI) office, is located at Bhikaji Cama Place, New Delhi.

Design incorporations:
- Flexible Layout and Activity-based Workplaces
- Bringing Nature in Design, Usage of Green Listed Furniture
- Dynamic and Agile Spaces, Recreational Zone,
- Collaborative Meeting Rooms,
- Technology – based Smart Office
- Play with Colours and Texture
Yanam is a town in the union territory of Puducherry (Pondicherry). The site measuring a total of 53 acres along with the area for water storage areas which is the only source of drinking water for the town was acquired by the PWD Yanam. The proposed site for botanical garden was 8.8 acre. The garden was designed to improve the environment 7 Ecology of the area and also to act as buffer to protect the water bodies from expanding built-up area. The major achievement of the project is that it converted barren waste land to the green lung for the town with plazas, play areas, kiosks and other points of touristic attractions all supporting & addressing the environmental concerns.
URBAN & REGIONAL PLANNING

- Participatory approach
- Comprehensive stakeholder and public engagement
- Integrated, inclusive and wholistic solutions
- Protection of ecologically sensitive and fragile areas
- Respecting peoples’ priorities, local ethos, and culture
- Multidisciplinary team offering unique and innovative solutions to complex challenges
- Using state of the art technology
- Objective analysis, commitment and integrity

Planning team in HUDCO is proficient in delivering comprehensive urban and regional planning assignments at town, district as well as state level for Urban Local Bodies, State governments and Development Authorities. Strengthened by a strong multidisciplinary team, the hallmark of the planning projects of HUDCO is its participatory approach and inclusive and wholistic solutions that benefits all stakeholders and is not limited to physical planning but extends to address environmental concerns, employment generation and social well being.

The planning team of HUDCO comprising of regional, urban & transport planners with architecture and engineering background, is supported by professionals from social work and sociology discipline to ensure community participation and socio-economic perspective in plan preparation.

HUDCO has worked extensively in slum redevelopment, relocation and rehabilitation projects of national importance that are exemplary examples of peoples participation, wholistic, responsive and resilient solutions.

HUDCO offers and evaluate alternative conceptual plans and development options vis-a-vis environmental impact, carrying capacity and the sustainability concerns to ensure pragmatic and implementable solutions.

Recent Planning Projects

- Integrated Master Plan for Rajgir Regional Planning Area and Nalanda Mahavihara World Heritage Site
- Development Plan for Khargone and Jhabua, Madhya Pradesh
- Master Plan for Arrah, Bodhgaya, Biharsharif, Bhagalpur, Chapra, Darbhanga, Gaya, Muzaffarpur, Rajgir towns in Bihar
- Slum Free city Plan for Gangtok, Chas and Ranchi
- City Development Plan (CDP) for Bodhgaya & Panaji
- State Urban Development Strategy for Jharkhand
**SLUM FREE CITY PLAN OF ACTION FOR GANGtok**

Slum Free City Plan of Action for the capital city of Gangtok was prepared by HUDCO. The SFCPoA of Gangtok that had approximately 23% of its population in slums was challenging because of its fragile ecology, terrain and restrictive land laws. A GIS based plan was prepared based on robust tenability analysis and vulnerability analysis. It outlined the curative strategy as well as preventive strategy for a slum free Gangtok. It also outlined investment plan, institutional framework and policy reforms required for implementation of the plan.

The plan is approved by the Central Sanctioning Monitoring Committee, Ministry of Housing & Urban Poverty Alleviation, Government of India.

**DEVELOPMENT PLAN FOR KHARGONE**

HUDCO provided consultancy support for preparation of Development Plan for Khargone, Madhya Pradesh. Khargone town is the administrative headquarters of the Khargone district (formerly known as West Nimar). The town is situated at the bank of Kunda river and has a population of 1,29,594. The town is a fast growing agro-based industrial town and known for its cotton and chilly production.
THE NEW JAMMU TOWNSHIP

A satellite township to the historical town of Jammu that faced tremendous population pressure was planned and designed by HUDCO. The site area of 900 ha was close to the river Tawi. The township planned for around one lac population was guided by the principle of ecological preservation.

Evaluation studies and eco-inventory were undertaken to assimilate the eco-system as it existed to the proposed development so as to minimize the negative impact of development. The new town proposals included recycling of river water taken from Tawi, conservation of natural surface drains as potential ground water recharge zones and sewage disposal through low cost natural treatment before recycling and disposal in the river.

The project received “The Prime Minister’s National Award for Excellence in Urban Planning & Design.”

COMPREHENSIVE DEVELOPMENT PLAN FOR VRINDAVAN TOWNSHIP, LUCKNOW

The project involves preparing the landuse plan, and detailed layout planning including Infrastructure details for a site of 1200 Hectares at Lucknow, Uttar Pradesh. The township was planned for a population of five lac persons and focused on water conservation and green city principles.

TOURISM MASTER PLAN FOR TAMIL NADU

HUDCO Consultancy was entrusted with the assignment of preparing the Tourism Master Plan for the state of Tamil Nadu. The scope of work included preparing an inventory and assessing the tourism products and recommend strategy, policies, programmes & projects including funding & management mechanism for tourism promotion in the state.

The master plan provided:
- Comprehensive strategy for tourism development with road map for implementation
- Proposals for new circuit development
- Concept for destination development for selected clusters
APPRAISAL & MONITORING

Key Areas of Work

- Scrutiny of DPRs, site inspection under Pradhan Mantri Awas Yojana (Urban)
- Inspection of Night Shelters constructed under the Shelter for Urban Homeless component of DAY NULM
- Prototype designs for Shelter for Urban Homeless for four climatic zones
- Inspection of Govt. funded social infrastructure and housing projects in NE States including Sikkim
- Assisted the Ministry for preparation of guidelines and forms under JNNURM.
- Appraised of DPR /project proposals under Basic Services to the Urban Poor and Integrated Housing & Slum Development Program under JNNURM.
- Assisted in preparation of ‘Toolkit for preparation of BSUP/ IHSDP Detailed Project Reports’
- Design Manual for affordable housing
- Awareness Building Workshops
- Third party monitoring of Delhi Police projects

HUDCO has been providing invaluable technical support to the Ministry of Housing and Urban Affairs in implementing various flagship programmes of the Government of India. As the technical arm that has spatial outreach in

Each and every state of India through its network of Regional Offices, HUDCO has assisted the Ministry in scrutiny of projects (both site and desk) for consideration of sanction of Central funds by the Central Sanctioning & Monitoring Committee (CSMC), Govt. of India. HUDCO has also provided support for monitoring of physical and financial progress of various Govt. of India schemes and also conducted quality checks of assets created with financial assistance of Govt. of India.
Environmental Engineering Consultancy Cell in HUDCO has a team of experienced multidisciplinary professionals viz. environmental engineers, civil engineers, architects and planners. It has developed and integrated project concepts in environmental engineering infrastructure mainly water supply, sanitation, and solid waste management sector with implementing agencies. The Cell has undertaken Development/Implementation of urban infrastructure projects in various sectors including urban water and sanitation, solid waste management. Key competencies include preparation of feasibility reports & DPR of solid waste management, sewerage and drainage.

The major areas of work include:

- Water Supply
- Sewerage & Drainage
- Solid Waste Management
- Impact Assessment Studies
- Govt. Scheme Appraisal & Evaluation
- Capacity Building
- Innovative & Low Cost Sanitation Solutions

PROMINENT PROJECTS: The environmental consultancy cell has an illustrious portfolio of projects of national importance and repute that has impacted the urban landscape in India.

- Feasibility reports for municipal solid waste management for 27 towns including 10 airfield towns of IAF
- Detailed Project Report (DPR) for solid waste management for Sensitive Zone of IAF Airfields in Pune Gwalior & Tejpur
- Detailed project report for sewerage scheme of Bhilwara City, Rajasthan.
- Consultancy for technology selection for treatment of disposal of municipal solid waste in NOIDA
- Preparation of DPR for Storm Water Drainage for Industrial Areas of Noida
- Appraisal of sewerage project for Gangotri, Rishikesh & Haridwar under Ganga River Basin Authority on behalf of Ministry of Environment & Forest.
- Third party evaluation of Central Sector Scheme of MoEF & CC in Environmental Protection
**MUNICIPAL SOLID WASTE MANAGEMENT**

HUDCO has prepared Detailed Project Reports (DPRs) for Solid Waste Management and Drainage for towns of Pune, Gwalior, Tejpur (Assam), Tura & Shillong (Meghalaya) and Feasibility Report for “Selection of suitable Technology for processing / disposal of Municipal Solid Waste in NOIDA City.

HUDCO has prepared Feasibility Report for Solid Waste Management in the towns of Ambala, Dwarka Sub-city of Delhi, Dundigal, Sirsa, Pune Gwalior, Adampur, Ghaziabad, Bareilly, Jodhpur and Tezpur

**SEWARAGE / DRAINAGE PROJECTS**

Ministry of Environment and Forest (MoEF) empaneled HUDCO for appraisal of Sewerage Projects under the National Ganga River Basin Authority (NGRBA), National River Conservation Plan (NRCP) and National Lakes Conservation Plan (NLCP. The prestigious projects for which HUDCO provided technical consultancy services include:

1. Detail Project Report For Construction of 18 MLD STP at Jwalapur (Zone E-2), Haridwar, Uttarakhand
2. Detail Project Report for Sewerage System In Ahab Nagar, Jwalapur (Zone E-2) at Haridwar, Uttarakhand
3. Detail Project Report for Sewerage & Sewage Treatment Plant for Tapovan, Uttarakhand
4. Detail Project Report for Abatement of Pollution at Triveni Ghat (River Ganga) Rishikesh, Uttarakhand
5. Detail Project Report For Gangotri Sewerage Scheme District Uttarkashi, Uttarakhand
7. Under Ground Sewerage/Sullage Scheme for Malkapur Nagar Panchayat under NRCP, Maharashtra

HUDCO has prepared Detailed Project Reports and Feasibility Reports of sewerage projects in different towns/cities of India for total estimated project cost of Rs. 51,193.48 lacs. Some of the towns for which HUDCO has prepared Feasibility Report for Sewarage / Drainage include Bhilwara, Didwana, Alwar, Suratgarh, Pilani, Kuchamancity, Junjhunu, Sikar, Sujangarh. It has also prepared DPR for Bhilwara City and Industrial Sectors of NOIDA
**Key Areas of Work**

- Project Feasibility Studies
- Project Formulation
- Project Management Consultancy
- Project Implementation & Execution especially
- Housing under Govt. programmes like IHSDP & BSUP
- Project Monitoring & Third Party Inspections of Projects
- Maintenance & Marketing of the Project Properties
- Valuation of Immovable Assets
- Retail assessment for commercial & office spaces
- Rehabilitation/ Restoration Projects in Disaster Affected Areas

**LANDMARK PROJECTS OF HUDCO**

- HUDCO Place at Andrews ganj, New Delhi.
- August Kranti Bhawan, HUDCO Vishala & HUDCO Trikoot at Bhikaji Cama Place, New Delhi
- Construction of housing units at various locations in Patna, Bihar under BSUP Project of JNNURM.
- Slum rehabilitation projects in Bodhgaya, Bihar
- Disaster Rehabilitation projects at Uttarkashi, Bhubaneswar, Latur, Bhuj.

Separate vertical has been created for taking up the construction and project management consultancy assignments. HUDCO has got the vast experience out of its earlier projects viz. Chirag project, Bhikaji Cama Place Project, Andrewsganj project, BSUP Projects at Patna and Disaster Rehabilitation projects at Bhubaneswar, Uttarkashi, Latur, Bhuj etc. wherein HUDCO was given the key role of project coordinator for planning, designing & execution of the construction works. In view of the experience gained by HUDCO in project management/ coordination field HUDCO intends to take-up similar assignments in future too.
HUDCO PLACE ANDREWS GANJ

HUDCO Place Andrews-Ganj, New Delhi was developed based on the concept of “Land as a Resource”. The project involved development of 60.6 acres of land earmarked by Govt. of India.

- 17.6 acres of plot was developed as a Community Centre with components as 12 no. Guest House Blocks, Shopping Arcade & Hotel site, Cultural Centre which were disposed of to generate revenues.
- 18 acres of land was developed and maintained as zonal green space
- Developed 1176 general pool houses on 25 acres of land & other infrastructure works of Govt. of India

18 Acres Of Zonal Green Space – Developed & Maintained By HUDCO

General Pool Accommodation On 25 Acres Of Land
HUDCO developed plots at August Kranti Bhawan, HUDCO Vishala & HUDCO Trikoot at Bhikaji Cama Place based on the concept of “Land as a Resource” to suit the requirements of a variety of office units/commercial complex.

HUDCO successfully got constructed a total 39758 sq.m. of built space in the above three projects.

Surplus generated by disposal of entire space in HUDCO Vishala & part of space in August Kranti Bhawan was utilized for creating offices at HUDCO Trikoot for Govt of India.

Balance space at August Kranti Bhawan is being utilized for rental income as profit for HUDCO.
IMPLEMENTATION OF BSUP PROJECTS UNDER JNNURM

Projects under the BSUP scheme were implemented and executed by inviting bids through open tender from empaneled agencies.

- Appointment of Architect by inviting bids from empaneled consultants, for designing under overall guidance of inhouse Architecture team.
- Appointment of Project Management Consultancy Services for onsite day to day management of construction activities.
- Appointment of Contractors for execution of the project for undertaking actual construction.

The Project involved implementation & construction of 480 Dwelling Units along with provisions for Basic Infrastructure Services for Urban Poor at 4 locations in Bihar, at total project cost of Rs. 13.65 crore between 2012 to 2014.

- Saidpura, Khaghaul- 64 units
- Isopur, Phulwari Sharif- 192 units
- Sarifaganj PMC plot, Patna- 192 units
- Mangal Talab, Patna- 32 units
IMPLEMENTATION OF BSUP PROJECTS

BSUP PROJECT AT MANGAL TALAB PATNA
Under the BSUP scheme at Mangal Talab Patna 32 Dwelling Units were constructed for the Urban Poor, on behalf of the Govt. of Bihar. The plinth area for each dwelling unit was 317 sqft.

BSUP PROJECT AT SARIFAGANJ PMC PLOT, PATNA
Implementation of BSUP Project at Sarifaganj PMC Plot, Patna involved construction of 192 dwelling units for the urban poor. Each of the dwelling unit constructed had a plinth area of 317 sqft.

AFFORDABLE HOUSING HABITAT AT DODDABANAHALLI, VALEGARAHALLI – BDA
Project Advisory Services which includes Market and demand assessment /analysis.
Disaster Management & Mitigation activities has been one of the key areas of HUDCO’s specialization. HUDCO has always extended its helping hand in times of crises due to natural calamities like earthquakes, landslides, cyclone, flooding, sea erosion and tsunami etc. in various parts of the country. HUDCO has extended its special financial and technical assistance for rehabilitation housing and other programmes to various State Govts. Till date HUDCO’s assistance has helped in the rehabilitation of 41.44 lakhs (4.1 million) families affected by natural calamities.

**Approach for Managing & Executing Disaster Rehabilitation Projects**

- Situational Analysis Study for assessing the damage, population affected and the major challenges.
- Preparation of Action Plan for Mitigation & Rehabilitation of affected people
- Financial Assistance & identification and development of Appropriate Technology packages.
- Efforts for technology transfer and training of local artisans on construction & using appropriate technologies.
- Assistance in project management & execution of disaster mitigation projects

**Major Rehabilitation Projects:**

- Leh Rehabilitation Project for Victims of Cloud Burst.
- Earthquake rehabilitation in Chamoli, Uttarakhand
- Earthquake rehabilitation in Latur and Usmanabad.
- Rehabilitation of the Super-cyclone affected in Odisha.
- Rehabilitation of Earthquake Affected Regions of Gujarat
- Housing for Bhopal Gas Victims, Bhopal

**Model House for Earthquake Victims of Gujarat**

**School Building, Chamoli Uttarakhand**

**School for Cyclone Victims, Odisha**
HUDCO initiated a Valuation & Estate Management cell for valuation of its own properties as well as for other Govt. agencies. With close to 20 years of experience, HUDCO's Central Valuation Unit is fully equipped and has the requisite expertise to carry out valuation exercise of all types and across states in India. HUDCO has successfully completed valuation of properties worth more than Rs 10.54 billions.

Clients of HUDCO for Valuation

- Ghaziabad Development Authority
- MMTC Ltd.
- ITDC Ltd.
- CBSE
- Meerut Development Authority
- Moradabad Development Authority
- Varanasi Development Authority
- Central Vigilance Commission
- Bihar State Housing Board
- Bhubaneswar Development Authority
- Bhubaneswar Municipal Corporation.
- Haryana Financial Corporation
- MP Housing Board

KEY AREAS OF WORK

- Mahavir House
- Nayapalli Commercial Complex
- Govt of Haryana Guest House
- NDA Staff Quarters
- Bhawai Commercial Enclave
HUDCO has got a dedicated department for management of HUDCO owned residential as well as commercial properties all over India.

HUDCO has also marketed its properties and is generating revenues by renting out surplus properties/built-up space located all over India (viz. August Kranti Bhawan, New Delhi, Mumbai, CMDA Tower Chennai, Jammu, Ahmedabad, Trivandrum, Jaipur, Bhubaneswar, Bhopal etc.)

Having vast experience in the filed of marketing and managing the properties HUDCO intends to offer its services to other organizations for effective monetization of non-moveable assets viz. commercial offices & residential premises.
<table>
<thead>
<tr>
<th>Award</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Prime Minister’s National Award for excellence in Urban Planning and</td>
<td>The award was for the design of an urban planning project in Jammu Development Authority.</td>
</tr>
<tr>
<td>Design, 1997</td>
<td>First Prize for Design of SMR Township for Jammu Development Authority.</td>
</tr>
<tr>
<td>UNCHS award for its housing project at Methawar, Coimbatore for</td>
<td>This project has been identified as one of the 100 special projects chosen by UNCHS for the Best Practice Awards.</td>
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<tr>
<td>Tamil Nadu Slum Clearance Board.</td>
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<tr>
<td>Journal of the Indian Institute of Architects (JIIA) Award for</td>
<td>The award was for research on user preferences and design guidelines for low-income housing.</td>
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<tr>
<td>applied research (1994)</td>
<td></td>
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<tr>
<td>Journal of the Indian Institute of Architects (JIIA) Award for</td>
<td>The award was for excellence in Architecture for the design of a low-income housing project at Pimpri Chinchwad, Pune.</td>
</tr>
<tr>
<td>excellence in Architecture (1992)</td>
<td></td>
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<tr>
<td>Journal of the Indian Institute of Architects (JIIA) Award (1990)</td>
<td>The award was for excellence in Architecture for the design of the project for rehabilitation of the victims of the Bhopal Gas Tragedy.</td>
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<tr>
<td>for excellence in Architecture, for the design of the project for</td>
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<td>the Rehabilitation of the victims of the Bhopal Gas Tragedy.</td>
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<tr>
<td>J.K.Cement Award for the group housing category 1994</td>
<td>The award was for the design of the Low Income Housing Project at Pimpari Chinchwad, Pune.</td>
</tr>
<tr>
<td>J K Cement - Architect of the Year Commendation Award 1997</td>
<td>The award was for the rehabilitation of earthquake victims in Latur district, Maharashtra, India.</td>
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<tr>
<td>in Rehabilitation category for the Project, Rehabilitation of Earth</td>
<td></td>
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<tr>
<td>quake Victims, Latur, and Maharashtra, India</td>
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<tr>
<td>World Habitat Award 1997, Citation – Rehabilitation of Earth quake</td>
<td>The award was for the rehabilitation of earthquake victims in Latur district, Maharashtra, India.</td>
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<td>Victims, Latur, and Maharashtra, India</td>
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<tr>
<td>First prize awarded by the Commonwealth Association of Architects</td>
<td>The award was for the Latur Earthquake Victim rehabilitation.</td>
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<tr>
<td>(Year 2000) for the Latur Earth Quake Victim rehabilitation.</td>
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<tr>
<td>HUDCO received the Prime Minister’s MoU Award for Excellence in</td>
<td>HUDCO was recognized for excellence in performance.</td>
</tr>
<tr>
<td>Performance 1998-99 from the Honorable Prime Minister for being</td>
<td>among the Top Ten Public Sector Institutions in Performance.</td>
</tr>
<tr>
<td>among the Top Ten Public Sector Institutions in Performance.</td>
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<tr>
<td>Indian Building Congress award for HUDCO project ‘Siddheshwar</td>
<td>The award was for the best designed project.</td>
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<tr>
<td>Dham, Sikkim ‘as the best designed Project</td>
<td></td>
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<tr>
<td>India Today PSUs Awards 2014- HUDCO received the India Today PSU’s</td>
<td>HUDCO was awarded the India Today PSU’s Award 2014 in the category of Mini Ratna for Best in HR Practices.</td>
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<td>Award 2014 in the category of Mini Ratna for Best in HR Practices.</td>
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<tr>
<td>BRONZE MEDAL in HUDCO BUILD TECH 2014 - ‘A prominent exhibition on</td>
<td>HUDCO BUILD-TECH 2014 Pavilion has been adjudged Third for Excellence in Display in the 34th India International Trade Fair 2014 held at Pragati Maidan, New Delhi.</td>
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<tr>
<td>Building Materials, Technologies &amp; Services, Real Estate and Housing</td>
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<td>Finance’ - HUDCO BUILD-TECH 2014 Pavilion has been adjudged Third</td>
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<td>for Excellence in Display in the 34th India International Trade</td>
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<td>Fair 2014 held at Pragati Maidan, New Delhi.</td>
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<tr>
<td>Award for best executed project given to CPWD for Model Interchange</td>
<td>The award was for the Model Interchange Point-cum-Shopping and Interpretation Centre, Fatehpur Sikri. (Design provided by HUDCO).</td>
</tr>
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<td>Point-cum-Shopping and Interpretation Centre, Fatehpur Sikri.</td>
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<tr>
<td>Award for best executed project given to CPWD for Shopping Node</td>
<td>The award was for the Shopping Node Bodhgaya. (Design provided by HUDCO).</td>
</tr>
<tr>
<td>Bodhgaya. (Design provided by HUDCO).</td>
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</tbody>
</table>
Contact Person: Executive Director, Construction & Consultancy Wing, HUDCO, Email Id: cnp.hudco@hudco.org