



CPWD SCENARIO ON USE OF GLASS IN MUMBAI

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MUMBAI**

CPWD

- **UNDERTAKES CONSTRUCTION WORKS OF CENTRAL GOVERNMENT MINISTRIES, DEPARTMENTS AND AUTONOMOUS INSTITUTES**
- **CPWD UNDERTAKES WORKS OF CENTRAL PSEs AND OTHER GOVERNMENT ORGANISATIONS**



ACTIVITIES OF CPWD

- ARCHITECTURAL SERVICES
- DESIGN
- CONSTRUCTION
- MAINTENANCE
- CONCEPT TO COMPLETION AND MAINTENANCE



MAJOR PROJECTS WITH CPWD MUMBAI

- **INCOME TAX, CUSTOM AND CENTRAL EXCISE BUILDINGS**
- **MINISTRY OF UD BUILDINGS**
- **NATIONAL INSTITUTE OF SECURITIES MARKETS CAMPUS (NISM)**
- **NATIONAL INSTITUTE OF INDUSTRIAL ENGINEERING**
- **NATIONAL TEST HOUSE (NTH)**
- **IDBI BUILDING**
- **CENTRAL BUREAU OF INVESTIGATION BUILDING (CBI)**



SELECTION CRITERIA OF GLASS

- **FUNCTIONAL ASPECTS**
- **AESTHETICAL ASPECTS**
- **TREND OF USAGE OF GLASS IN SURROUNDING BUILDINGS**
- **REQUIREMENT OF CLIENT**



**BUILDINGS WITH EMPHASIS ON
AESTHETICS &
SURROUNDINGS**



- **CBI BUILDING**
- **Location: C-35 A, G Block, BKC, Mumbai**
- **Floors: 2 Basements +Ground+13 storeys**
- **Cost: 104 Cr**







INCOME TAX OFFICE AT VEJALPUR.

SENIOR ARCHITECT [WZ]I
C.P.W.D. MUMBAI 400020

OFFICE BUILDING FOR CENTRAL EXCISE VAPI



ANNEX BUILDING FOR IDBI BANK

AT CBD BELAPUR, NAVI MUMBAI



CANARA BANK BKC MUMBAI

Cost : ₹ 105.04 Crores
Built up area : 16072 Sqm
Basement Area : 6871.00 Sqm in two levels
Floors : 2 B + Gr + 9



INCOME TAX BUILDING, BKC, MUMBAI

***Built
area***

up : 44074 sqm



PROPOSED CUSTOM OFFICE, MUMBAI



SEBI BUILDING MUMBAI

2B+G+8, COST:75CR, BUILT UP AREA: 13011 SQM, BASEMENT: 8634 SQM



Regional Passport Office at Bandra Kurla Complex, Mumbai (BUILT UP AREA: 6060 SQM, BASEMENT: 3754 SQM, 2B+G+5, COST: 70 CRORE)





COST: : ₹ 74 Crores

Built up area : 6157.08 Sqm

Basement Area : 2741 Sqm in two levels

Floors : 2 B + Gr + 8

IDBI BUILDING, MUMBAI

Cost : ₹ 172 Crores
Built up area : 18562 sqm
Basement Area : 13843 sqm. in two levels.
Floors : 2 B + Gr + 7





**REGIONAL
TRAINING
INSTITUTE,
MUMBAI
INDIAN AUDIT &
ACCOUNTS
DEPARTMENT**

**BUILT UP AREA: 6201
SQM,
BASEMENT 2495 SQM,
2B+G+7, COST: 48
CRORE**



BUILDINGS WITH EMPHASIS ON FUNCTIONAL REQUIREMENT

ADMN. & LIBRARY BUILDING FOR NITIE

BUILT UP AREA: 11868 SQM, BASEMENT: 1860 SQM, B+G+6, COST: 44 CRORE





MULTISTORIED HOSTEL FOR NITIE, MUMBAI

**BUILT UP AREA: 11144
SQM, S+16, COST: 41
CRORE**



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BIRDS EYE VIEW



PROPOSED 56 NOS RESIDENTIAL FLATS FOR INCOME TAX AT BANDRA KURLA COMPLEX

CHIEF ARCHITECT (WR)
C.P.W.D. MUMBAI



**BUILDINGS WITH EMPHASIS
ON
REQUIREMENT OF CLIENT**





HOSTELS





RESDL. BLOCK



Project:
Proposed Campus Of NISM at Patalganga



ADMN.BLOCKS





LIBRARY





RECREATION BLOCK



Recreation Block

AUDITORIUM



Project:
Proposed Campus Of NISM at Patalganga

HSA
HITEN SETHI ARCHITECTS

ORIENTATION CENTRE



Orientation Centre

Project:
Proposed Campus Of NISM at Patalganga





VIEW OF BUILDING

PROPOSED AIPMR BUILDING, HAJI ALI, MUMBAI



GREEN BUILDINGS

- **CPWD HAS DECIDED TO CONSTRUCT ALL BUILDINGS CONFORMING TO MINIMUM GRIHA 3 STAR RATING NORMS.**
- **BUILDINGS ARE ALSO TAKEN UP WITH 4 & 5 STAR GRIHA RATINGS**

BUILDINGS REGISTERED FOR GRIHA RATINGS

- **CENTRAL BUREAU OF INVESTIGATION BUILDING (CBI)******
- **BUILDINGS OF NATIONAL INSTITUTE OF SECURITIES MARKETS (NISM)******
- **NATIONAL TEST HOUSE (NTH)******
- **INCOMETAX BUILDING BKC (IT)******
- **INDUSTRIAL DEVELOPMENT BANK OF INDIA (IDBI) awarded GOLD rating by LEED.**

USAGE OF GLASS IN GENERAL

- **WINDOWS**
- **STRUCTURAL GLAZING**
- **DOORS**
- **PARTITIONS**
- **INTERIORS AND MURALS ON GLASS**
- **SPECIAL USES e.g. FIRE RESISTANT, SOLAR REFLECTIVE, BULLET PROOF, MIRROR**

USAGE OF GLASS IN GENERAL

**CPWD, ALONGWITH IBC, CES & CCPS
HAS FORMULATED GUIDELINES ON
USE OF GLASS IN BUILDINGS - HUMAN
SAFETY**

CONCLUDING OBSERVATIONS

- **GLASS IS A VERSATILE MATERIAL AND BEING USED IN MANY APPLICATIONS IN CPWD.**
- **GLASS IS REQUIRED TO BE USED AS PER CLIMATIC CONDITIONS AND ORIENTATION OF THE BUILDING.**
- **WINDOW TO WALL RATIO (WWR) TO BE OPTIMISED FOR DAYLIGHTING & ENERGY – EFFICIENCY OF THE BUILDING.**
- **SELECTION & EXTENT OF GLASS IS MADE AS PER FUNCTIONAL REQUIREMENT OF SPACE / BUILDING**
- **TO MAKE EFFECTIVE USE OF GLASS, COST NEEDS TO BE OPTIMISED.**

THANK
YOU

