

CPWD SCENARIO ON USE OF GLASS IN MUMBAI

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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







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 : 2B + Gr + 9







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 : 2B + Gr + 8

IDBI BUILDING, MUMBAI

Cost : ₹ 172 Crores

Built up area : 18562 sqm

Basement Area : 13843 sqm. in two levels.

Floors : 2B + Gr + 7







REGIONAL
TRAINING
INSTITUTE,
MUMBAI
INDIAN AUDIT &
ACCOUNTS
DEPARTMENT

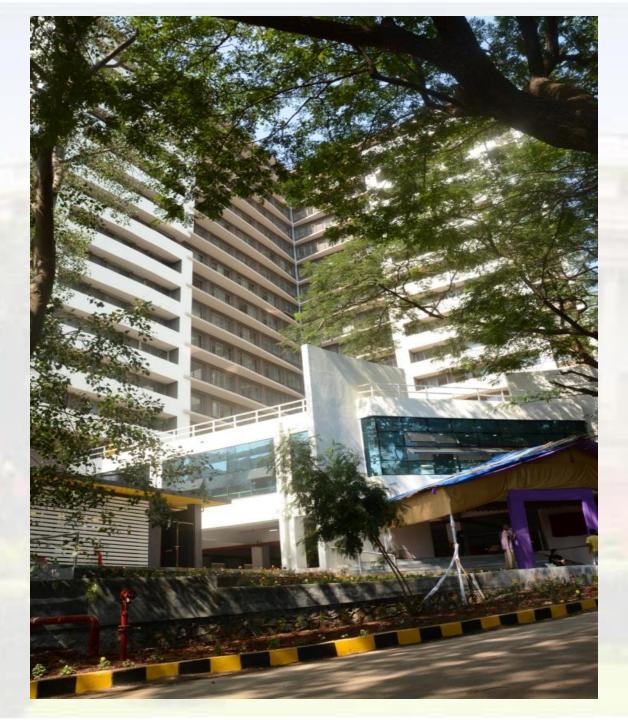
BUILT UP AREA: 6201 SQM, BASEMENT 2495 SQM, 2B+G+7, COST: 48 CRORE

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





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

BUILDINGS WITH EMPHASIS ON REQUIREMENT OF CLIENT











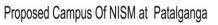


RESDL. BLOCK





Project







ADMN.BLOCKS







LIBRARY

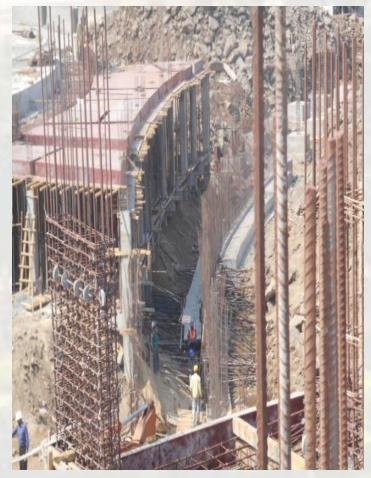




RECREATION BLOCK



AUDITORIUM





Project:

Proposed Campus Of NISM at Patalganga



Orientation Centre

Project:

Proposed Campus Of NISM at Patalganga



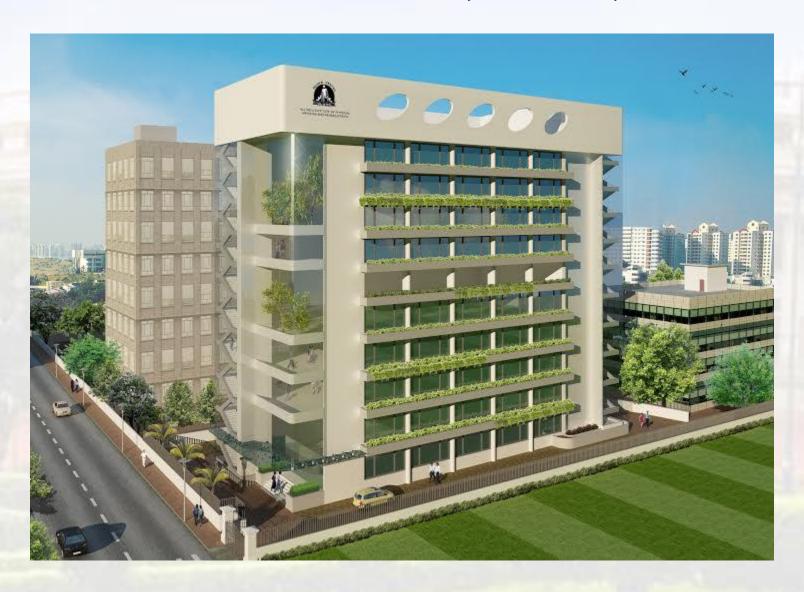
ORIENTATION CENTRE





VIEW OF BUILDING

PROPOSED AIIPMR 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.

