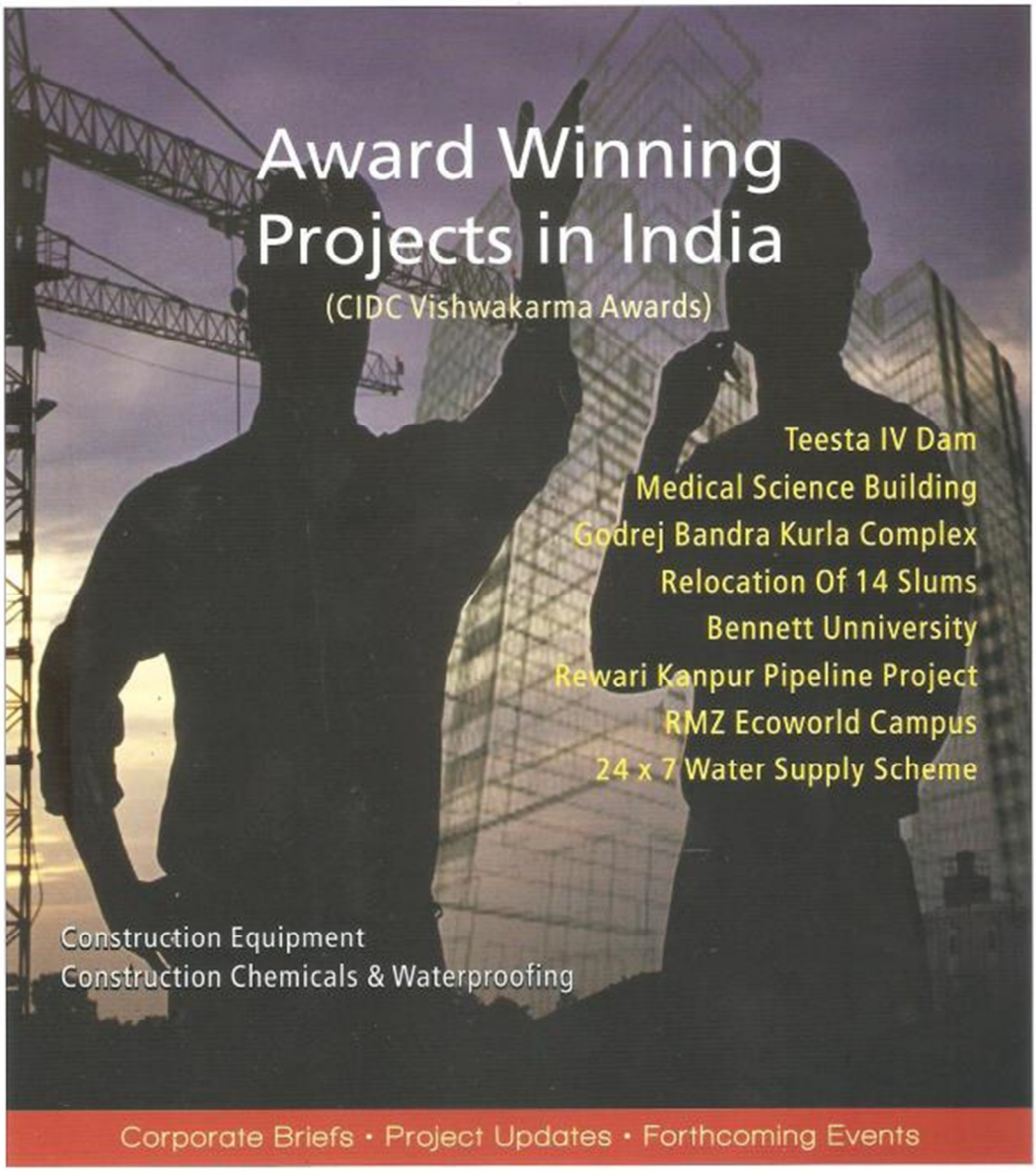
www.cecr.in ISSN 0975 - 9034 Rs. 200/-

CIVIL ENGINEERING & CONSTRUCTION REVIEW

India's Leading Infrastructure Monthly On Methods, Materials & Machinery Vol.30 No.7 July 2017



Bennett Unniversity At Greater Noida

AHLUWALIA CONTRACTS INDIA LIMITED (ACIL)

Ahluwalia Contracts India Limited was honoured by the CIDC for the project Bennett University at Greater Noida. Under the category of "Best Institutional Building Construction Project. " The company was awarded a commemorative tropy and certificate. Highlights of the project have been presented in this article.

Ahluwalia Contracts India Limited (ACIL) had executed the work of "Bennett University" for M/s Bennett University for Higher education, located in Greater Noida, Near Dabra Village spread over expansive 68-acre campus. Designed by the renowned Singapore-based RSP Architects, Bennett University's sprawling campus is visualized as a modern, user-centric, functional space, enabling an immersive and comprehensive learning University in 2016 as a Main Contractor for Civil, Structure and façade works. The total project cost was Rs. 110 crores. The main associated agencies were:

Architects	M/s RSP Design Consultants Pvt. Ltd., Gurgaon (Singapore Based)
Structural Consultants	M/s Civtech Consultants Pvt. Ltd., Noida
Interior Consultants	M/s SWBI, Gurgaon
Project Management	M/s Knight Frank, Gurgaon

Salient Features of Project

The Project comprising of two academic blocks with hostel facilities includes numerous independent buildings i.e. Service Block, Workshop, Girls & Boys Hostel, and STP and Guard room & roads built on land of 68 acres with large greens. The Built-up Area of the campus is 8035 has also been constructed. The academic blocks having cafeteria, Library, Lecture Theater, Orientation Room, Practical labs, Medical room, Class Rooms, Gym, ATM, Server Room, Hub room, Electrical room, AHUs, Kitchen and Toilets etc

Element of Excellence/Innovativeness

Special Constructional Challenges & Elements

- Totally concrete RCC surface was achieved and no plaster was required as the quality achieved was excellent.
- DGU glazing & ACP in the façade.

Management Principles

We place, our team over the profits & our team in response provides us with profits. That's the very simple & effective management philosophy we had adopted, our aim always revolved around Zero Fatality, which resulted in effective & safe execution of the activities, keeping our Safety Management Principles to the practice along with other management practices

The Salient Features of the Project Complex are:	
otal Project Area: 68.00 Acres	
Civil & Finishing Works	
otal Excavation	72420 cum
CC	3361 cum
einforcement Cement Concrete	20028 cum
rick Coba	5584Sqm
einforcementSteel(TMT-Fe 500)	2388 MT
tructure steel	300 MT
Nuttering Work	60271Sqm
AC Block Work	23840Sqm
ota Stone	7997Sqm
unning	10146Sqm
ater proofing with insulation	6700 Sqm
tanding seam profile roofing sheet	3763 Sqm
lse ceiling (planks, Baffels, Gypsum Ceiling	5090 Sqm
ypsum board partition	858 Sqm
le flooring/ dado	4697 Sqm
re doors	125 Nos
nyl flooring	5400 Sqft
lling Shutter (G.I. Powder coated)	500 Sqm
minium Works	
CP	5652 Sqm
cade Works	7612 Sqm
ylight	300 Sqm
uminium powder coated louver	1700 Sqm
oad Works	
emix Concrete Road	9165 Sqm
vers	2333 Sqm
rb Stone	4000 Rmt

Library

like Human Resource Management, Construction Management, we successfully had earned the trust of our client & associates.

Contribution of Participant (ACIL)

BENNETT UNIVERSITY was executed by Ahluwalia Contracts (India) Ltd. as a Main Contractor right from the beginning till completion and commissioning of facilities. The project had three main parameters to be taken care of to acquire the status of a successful project namely the Cost, Time & Quality. So to complete the project of such a huge scale with excellent quality of work, along with extended scope of work along with time is an achievement; the efforts put in by the project team enabled us to execute the project with saving in running cost, capital & valuable resources. Through value engineering, cost saving was made possible.

Use of Modern Construction Techniques & Technology

The project demanded faster execution, superior quality, cost-effective execution & overall productivity. Achieving all this would not have been possible without the incorporation of new construction techniques & technologies like exposed RCC ceiling /walls which resulted in the product envelope as desired by our clients.

Lecture theater

Good Construction Practices

- Using plant and machinery which are in good condition & maintaining them to avoid break downas well asto save running cost.
- Using concrete mix design to its finest use so as to achieve less carbon emission.
- Placing safety first & all other parameters secondary.
- Keeping emergency vehicle (ambulance on site) as a precautionary measure.

Cafeteria

Corridor

- Celebrating festivals like VishkarmaJayanti, Diwali, Dushhera, Eid, Holi, etc. on site so as to develop an emotional bond within the project team.
- Benchmarking our work with no one else but with ours only, & trying to keep on improving the same.
- Keeping emergency vehicle (ambulance on site) as a precautionary measure.

Wastage Reduction

- Working with pro-active approach so as to avoid wastage of materials & resources on site.
- Extensive working on BBS right from the start of the project so as to reduce wastage of steel during cutting & bending.
- Stacking & storing materials (even leftovers) & using or disposing them as and when required to control wastage.

Implementation of Green Building Concepts in Design

- Proper selection of low energy glass for façade to cut off heat.
- Use of thermal insulation in roof.
- Rain water harvesting - roof water discharge.
- Building Management system for service management.

Ms. Ishita Manjrekar Bags Top Honour Internationally

Ms. Ishita Manjrekar, Director Technology, SUNANDA Speciality Coatings Pvt. Ltd., became the toast and pride of India when she bagged the prestigious 'Young Member Award for Professional Achievement'in Milwaukee, USA.

The top honourby American Concrete Institute (ACI) was presented at the Concrete Convention and Exposition in recognition of Ishita's exemplary achievement, groundbreaking research, and service to ACI and the concrete industry.

The international committee took positive note of her outstanding service to advance the spread of concrete knowledge at the India Chapter of American Concrete Institute (ICACI) and at various national and international platforms,her immense

contribution to the advancement of sustainable and durable construction through the use of innovative construction chemical aids, and her focus on mentoring students to pursue research and careers in the field of civil engineering.

For the past nine years, Ishita has been Director Technology at SUNANDA Speciality Coatings Pvt. Ltd., Mumbai, and a well-known construction chemicals company whose operations extend from India to Nepal, UAE, Oman, Tanzania and USA.

Ishita's research interests include corrosion, admixtures, and protective coatings. She received her bachelor's degree in chemical engineering from the Institute of Chemical Technology, Mumbai, India, in 2005, and her MS in chemical engineering from Rensselaer Polytechnic Institute Troy, New York, in 2007.