

Patrika - an endeavor of BCEOM India to stay connected to all its members across the country **turns 1 year** with this issue. We feel euphoric to witness its progress through first year of infancy.

During the past one year, through our issues we have tried to enrich you about our projects, both new & on-going, various tools & methods, events etc. It will be our continuous effort to keep you posted on various activities.

Our Celebration will not be complete without commending and extending our thanks to the contributors for their cooperation and continuous support. The success of Patrika lies in the spontaneous responses that we have received during this one year, inspite of their busy schedules.

As always, we welcome your suggestions for improvising the newsletter at our e-mail id: patrika@bceomindia.com

EDITO

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French President Mr. Nicolas Sarkozy visits India in January 2008



The President of French Republic Mr. Nicolas Sarkozy, was on a State Visit to India from 25-27 January this year and was the Chief Guest at our Republic Day on 26 January. The highlight of the visit was to provide fresh impetus to the strategic partnership, bilateral relationships, trade and economic co-operation between the two countries. One of the key highlight of the discussion was the need of greater efforts in joint collaborations in almost all sectors of economy, with more expansions in roads & railways.

Mr. Nicolas Janiet, Managing Director of Egis Group, France also accompanied the French President as a part of the high profile business delegate representing top European companies from France to strengthen the business ties with India. This was Mr. Janiet's second visit to India.

From his busy schedule with French President, Mr. Janiet managed to spare his valuable time to visit our Head office at Faridabad and spent a considerable amount of time with all the staff, be it technical, business development, finance or human resources.

His keen eye for details, eagerness to know about our staff & business issues, systems and procedures, & overall appreciation of the Team effort were indeed very motivating.



Zoom on BRTS, Bhopal

BCEOM has been assigned the responsibility to prepare the Preliminary Project Report (PPR) and Detailed Project Report (DPR) for 4 pre-identified (prioritized) corridors for Bus Rapid Transit System (BRTS) in the city of Bhopal, by Govt. of M.P through, Bhopal City Link Limited (BCLL).

The total length of all four corridors is approx 46 km. The assignment basically comprises (i) Preparing the DPR for Corridor 1 Misroad to Bairagarh (24.67 km) for which the JNNURM fund has been sanctioned by the MOUD GOI. (ii) Preparing the Feasibility Study Report (FSR) for Corridors 2, 3 and 4 (iii) Preparing the DPR for Corridor 2, 3 & 4 a combined length of 21.8 km. after the approval from Government. The project has commenced from June 2007. The Final DPR along with tender documents is expected to be completed by April 2008.

The major features of the BRTS Design at Bhopal include:

- ◆ A combination of partially 'open' and 'closed' BRT System in view of the restricted ROW available
- ◆ Varied cross sections used for various stretches of the corridors to avoid large scale land acquisition
- ◆ Central Common Bus Platform to save space necessitating right hand side door of BRT buses
- ◆ Configuration of existing BCLL fleet of 39 buses will have to be modified as per the proposed configuration with right side door
- ◆ World class state-of-the-art buses and matching bus platforms proposed for barrier free level boarding and seamless comfortable journey
- ◆ Application of effective and affordable Intelligent Transportation System (ITS) for passenger information system (PIS), ticketing, fleet management etc.
- ◆ Modern and aesthetically designed Terminal and Depots with all necessary facilities at strategic locations are being proposed.



Focus on New Projects

Contract BS06 : Independent Safety Audit/ Assessment of the safety aspects of the train control and signaling system to be implemented in the following extensions of Line 1 & 2 in Phase II of the MRTS for Delhi: Shahdra Dilshad Garden section, covering a route length of 3.09 km (approximately), entirely elevated:

- ❖ Vishwa Vidyalaya Jahangir Puri, covering a route length of approximately 6.40 km in partly underground and the balance elevated;
- ❖ Central Secretariat Qutab Minar, covering a route length of approximately 13 km in partly underground and the balance elevated;
- ❖ Qutab Minar to Sushant Lok, covering a route length of approximately 13 km, entirely elevated.

Client: Delhi Metro Rail Corporation Limited (DMRC)
Duration: 4 years.
Contact: Srinivas Sarma (DGM, Railways)



Consultancy Services for Preparation of City Development Plan for Grade III Municipal Towns in the Tiruppur Region for the following ten Towns named Velampalayam, Goundampalayam, Kuniyamuthur, Kurichi, Nallur, Palladam, Valparai, Punjampulliyampatti, Gudalur & Nalliyalam in Tiruppur Region of Tamil Nadu

Client: Commissioner of Municipal Administration (CMA), Tamil Nadu Urban Development Project (TNUDP) III, Govt. of Tamil Nadu
Duration: 6 months
Funding agency: World Bank
Office location: Karur (Tamil Nadu)
Contact: K J V Ramana Rao (GM, Urban Development)

News From Ongoing Projects

Cement Concrete (CC) pavement Technology in India in JV with L R Kadiyali & Associates

Client: National Highway Authority of India
Date of commencement: 1st July 2007
Duration of the study: 24 months
Contact: j.aunis@bceomindia.com

The Government of India (GOI) has received a loan from the International Bank for Reconstruction and Development (IBRD) towards the cost of the Lucknow - Muzaffarpur National Highway Project (LMNHP). The present study is a component of the LMNHP to improve Cement Concrete (CC) pavement technology in India that will result in durable and longer lasting pavements requiring only minimal maintenance and repair activities over their expected (as designed) service lives. The upgrading of technology must recognize and incorporate features unique to the Indian conditions-availability of trained manpower, construction equipment, testing equipment, and testing facilities; site conditions; and climatic conditions (hot-weather concreting and monsoon rains).

The team has so far visited 15 CC pavement projects in various parts of the country, interacted with IRC/CRR/MORTH & other stakeholders and had submitted initial assessment report and framework report for data collection.

Allahabad Bypass Project : Construction Supervision in Joint Venture with LASA.

Client: National Highway Authority of India
Date of commencement: April 2004
Duration : 30 Months
Contact: bceom_abp@bceomindia.com

Allahabad Bypass Project comprising a length of 84.728 km is an access controlled highway. Except 2.6km, the remaining length of bypass passes through virgin land. BCEOM (lead partner) in association with LASA is the Supervision Consultant for two road packages.



Bypass is designed as 4- lane divided carriageway with 6- lane embankment for future expansion. The work involves construction of rigid pavement for main carriageway and flexible pavement for service road on both sides. There are 5 Interchanges/ Grade separators, 4 RoBs, 3 Overpasses, 43 Underpasses, 23 Pedestrian Underpasses, 19 Major/ minor bridges, 39 slab/ box culverts, and 87 pipe culverts. The main feature in this bypass is use of 67 lakhs of Pond Ash in construction of embankment. With all these salient features of the project, the supervision is very challenging and the experience being gained by every staff member is enriching. The inspiring and thrilling aspect lies in working in a pollution free atmosphere as the Highway passes through lush green agriculture fields. While supervising the project, the Supervision Consultant has faced a major challenge in revising 90 % of horizontal and vertical alignment owing to introduction of many new underpasses and conversion of Overpasses into Underpasses. Arising out of this revision of alignment, bringing out changes in drainage pattern is another uphill task. All these challenges while gracefully accepting by the Supervision Consultant has delivered to the utmost satisfaction of client.

CS-I Punjab (NS-36, NS-37, NS-38) North South Corridor Project (NHAI) Construction Supervision in Joint Venture with NICE.

Duration : 30 Months

Date of commencement: December 2005

Contact : bceom_muk@yahoo.co.in



Project Overview:-

The project is located in Punjab, starting from Bhogpur (26 Km towards north from Jalandhar) to Lakhanpur (about 15 Km towards north from Pathankot), covering total length of 104 Km. Four laning of this section of NH-IA under NHDP-II (North-South Corridor Projects) is under implementation in three Construction Packages viz. NS-36, NS-37 & NS-38.

Project Package	Section of NH-IA	Length (K.m.)	Contract Price (million.)	Construction Agency
NS-36	Lakhanpur - Pathankot	19.7	901	M/s MVR Infra Projects Pvt. Ltd., Vishakhapatnam.
NS-37	Pathankot - Mukerian	40	2867	M/s ITD Cementation India Pvt. Ltd., Kolkata
NS-38	Mukerian - Bhogpur	44	2010	M/s Bridge & Roof (I) Ltd., Kolkata

These Projects comprise 13 nos. Major Bridges length totaling about 3.00Km. across the major rivers or branches of Beas, Damtal, Chakki and Ravi; 3 nos. four lane Flyovers length totaling about 2.80 Km including its reinforced earth structure approaches; and 243 nos. Minor Structures (Minor Bridges/ Underpasses / Culverts etc.). It is special rather challenging too that 2 nos. Rail Under Bridges (RUBs) to be executed through Box Pushing technique for total length of (56+34) 90m under running rail traffic. The project composed of almost 50% structure work and 50% road works.

Being a route of immense importance for defence and tourism, it is an important link of North South Corridor connecting Jammu to rest of the country. Construction of these projects shall certainly improve the economy of Punjab, Himachal Pradesh and J&K as important route of tourist interest, too.

Training

A two day training program was organized by BCEOM India at Team Leader's Office, Mukerian, on 1st & 2nd December 2007 on Quality Assurance/Quality Control & FIDIC. It was conducted by Mr. MH Khan, SPME, Mr. Venugopalan KV, Sr. Highway Engineer (QA) and the Team Leader. All our BCEOM & NICE staff (NS-36, NS-37 & NS

-38) attended the training enthusiastically and participated in the discussions.

Recent Celebrations

All staff (BCEOM) at project site enjoyed the blissful eve of 31st Dec. 2007, celebrating a New Year party at our guest house at Mukerian.



Hyderabad Ring Road Project Construction Supervision in Joint Venture with AARVEE

Duration : 30 months

Date of commencement: July 2006

Contact : s_anandanadarajah@rediffmail.com

Phase-I of Hyderabad Outer Ring Road Project comprises of Gachibowli-Narsingi spur road connection with Outer Ring Road and Narsingi-Shamshabad section of the Outer Ring Road. The Outer Ring Road is access controlled 8-lane Expressway around Hyderabad city and the spur is access controlled 6-lane road.



The Employer for the Project is Hyderabad Growth Corridor Limited which is a joint venture company of Hyderabad Urban Development Authority and Infrastructure Corporation of Andhra Pradesh. ORR Phase-I is under construction with BCEOM in joint venture with Aarvee Associates providing the Consultancy Services for Construction Supervision.

The Project is split into two Contract Packages and under construction by two separate Contractors, M/s Corporation Transstroy, OJSC of Moscow, Russia for Package-I from km 0+000 11+000 and M/s Continental Engineering Corporation of New Delhi, India Package-II from km 11+000 24.380.

The other salient features of the Contract packages include a Clover Leaf Interchange at Shamshabad junction where there are no less than 14 vehicular underpasses and minor bridges to be undertaken, major bridges across river Musi and Musa, Rajendranagar Viaduct with 13 span PSC superstructure, a Railway Overbridge, overpasses at Gachibowli and Gandipet crossings, 10 vehicular underpasses of spans ranging from 10m to 30m, 3 minor bridges, 32 cross drainage structures and junction development works at Gachibowli, Nanakramguda, APPA areas.

BCEOM India launches its Aviation Sector

BCEOM India has launched its Aviation Sector formally in January 2008, to develop consultancy business in India in the airports. The corresponding international firm from Egis Group, is Egis Avia, formerly known as Sofrevia. The Group brings a rich experience that encompasses working in 140 countries over 28 years in the following three segments:

- ★ Airport Terminals
- ★ Air Traffic Mangement
- ★ Air Transport

The objective is to leverage the cross-functional expertise of the existing staff of BCEOM India (eg. Pavement, survey infrastructure design, estimation, contract documentation transfer from Egis Avia, as the business increases. Egis group, at present is operating 4 airports through Egis Projects and Egis Projects is also looking at business opportunities to participate as Operator for Airports being planned on PPP basis.

With growth rate registering last year at 24% for passenger



traffic and at 10% for Cargo, the Government is planning many projects like development of 35 non-metro airports, modernization of Kolkatta and Chennai Airports, Greenfield Airports in North East etc. to meet the challenges associated with a projected growth of about 16% for passenger traffic and 10% for cargo and..... the challenge lies ahead of us is to realize this business potential.

Our Team comprises of Mr. S. S. Singh, (formerly Executive Director -Airport Authority of India) as an Advisor, Mr. Ashish Dasgupta, for business development and Mr. Robin K. Thomas for DTP functions.

Anil Verma

Date of Joining: 1st September 1998

Mr. Anil Verma is the first Employee to join BCEOM in 1998. Prior to BCEOM, he worked with Consular of Embassy of Columbia for 3 years. He was appointed as Driver cum Office Assistant to Mr. Gonzalez. He vividly remembers his first day of work at BCEOM, welcomed by empty chairs and tables, completely oblivious to the fact that this office will grow to a strength 465 employees within next 10 years. He got his first on the job training in photocopying from none other than Mr. Gonzalez. He would accompany Mr. Gonzalez for all his business meetings at NHA, CES, ICT, RITES etc. After departure of Mr. Gonzalez from India in 2002, Anil has been attached to Mr. Jean Christophe Elis, our Managing Director.

The growth of the company in last 10 years brings tears in his eyes with joy....joy in abundance. He finds the staff to be very friendly & supportive and company policies employee friendly. Professionally, he feels that BCEOM has given him the opportunity for an all round development in other administrative support functions as well besides honing his driving skills and increase in his confidence level while dealing with Expats.

He derives an immense pleasure when appreciated by his seniors here and also by BCEOM Staff visiting from



France, especially by Ms. Liilliane Dupont, Director (Human Resources), Egis BCEOM International during her visit to India in 2006.

New Books & Magazines in the Library

Books:

Engineering in Rocks and Slope Foundation, by T. Ramamurthy, PHI.

Principles and Practice of Management by Bakshi, Sunil; Galgotia Publication.

Law of Arbitration & Conciliation by K.K. Venugopal; Wdhwa & Co.

Concrete Overlays (White Topping) by Kadiyali, L.R.; Cement manufacture's Association.

Law Lexicon with Legal Dictionary with Maxims by Venkatramaiya; Law Publishers.

Computer Aided Design System for high Embankment Problem by Vardarajan & Sharma.

Specification for Road & Bridge Works (4th Rev.) Indian Road Congress.



Maps:

City Map including Gurgaon + NCR by Eicher.

Report:

Road Development Plan vision 2021, National Capital Region, Planning Board, Govt. of India.

Railways in India by Indian Infrastructures

Aviation in India by Indian Infrastructures

The Millau Viaduct

The **Millau Viaduct** (French: le **Viaduc de Millau**) is a large cable-stayed road-bridge that spans the valley of the River Tarn near Millau in southern France. Designed by Norman Foster of Foster and Partners, and bridge engineer Michel Virlogeux, it is the tallest vehicular bridge in the world, with one mast's summit at 343 metres (1,125 ft) slightly taller than the Eiffel Tower and only 38 m (125 ft) shorter than the Empire State Building. The viaduct is part of the A75-A71 autoroute axis from Paris to Béziers. It was formally dedicated on 14 December 2004 and opened to traffic two days later.

The Millau Viaduct consists of an eight-span steel roadway supported by seven concrete pylons, heights ranging from 77 to 246 m. The roadway weighs 36,000 tons and is 2,460 m long, measuring 32 m wide by 4.2 m deep, making it the world's longest cable-stayed deck. The six central spans each measure 342 m with the two outer spans measuring 204 m. The roadway has a slope of 3% descending from south to north, and curves in a plane section with a 20 km radius to give drivers better visibility. It carries two lanes of traffic and one safety lane in each direction.

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FAMILY DAY Celebration at Head Office



Staff at Head office went for a Day Picnic with families on 15th December 07 to Surjivan Resorts in Gurgaon, 28 km. from Delhi. It was an ideal get-away from hustle-bustle of busy city life; to bask in warmth of bright Sun in the company of family & friends. The ethnic ambience coupled with various fun-filled activities like drawing competition for children, Matka-phoro competition for ladies, Tug of war, farm tour, camel rides, traditional dance, football match etc. were just perfect to make the day MEMORABLE.

BCEOM India Day

BCEOM India celebrated its 3rd Anniversary on 8th February 08 at Tivoli Gardens with a big Bang!!!!!! It was well attended by all the staff at Head Office. Mr. Vincent Terrasan from Egis, France was the Chief Guest. Mr. Jean Christophe Elis, our Managing Director expressed his appreciation to all staff for partnering the company in achieving its exponential growth over last year. *“For Sustaining the current growth rate of the company & also to increase the business of the company threefold by 2012 with advent of new sectors, employees have to work even harder”* was the message sent out clearly by him.

Three Cheers for BCEOM INDIA, Hip Hip Hurrah!!



Cricket Match



A cricket match was organized recently on 23rd February 08 at Gargi College, New Delhi. Look at our Champions holding the Trophy.....

Congratulations to the winning team!!!



Training & Workshops

Leadership Training by Dr. Ramesh Arora on 18-19 January 2008

A workshop was organized for DGM and above at Atrium Hotel on Leadership and Team Building on 18-19 January by Dr. Ramesh Arora. This two-day workshop focused on understanding self through psychometric analysis. Was highly appreciated by all the participants; the session ended with participants asking for more such workshops, two days seemed too little for self exploration and development



Team Leader's Meet at Head office on 14-15 March 2008

It was an excellent effort by the Project Management Team at Head office to bring together all the Team Leaders of our ongoing projects of Roads & Highways Sector during this meet for an open house discussion. Focus was to discuss on various technical, contractual, business development & administrative issues, to learn & share through their experiences.

More such workshops will be conducted in future.....

Overseas Mission

Mr. Akhilesh Gupta, General Manager (Highways – Design) at Head office has been sent on a 9 months mission to BCEOM, Indonesia to work as Senior Highway Engineer for “Western Indonesia National Road Improvement Project (WINRIP). WINRIP will support a program of National Road and Bridge improvement works throughout Western Indonesia (Sumatra).

The main objective of WINRIP project is to improve existing National Roads and new classified road links as per AASHTO standards suitable to their status, standards of service and accessibility, and is capable of supporting local and regional economic development.



Obituary - Demise of Col. N.S.Bhogal

Col. Bhogal, Team Leader for our Uttarakhand Project, left for heavenly abode on 5th March 2008 due to Cardiac Arrest on his way to work. Though his association with us was very short (he joined us in February 2008), he will always be remembered as a jovial personality. May his soul rest in peace!

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