

Borislav T. Tomasevic, M.Sc.Civ.Eng.

The overview of the engineering activities at the Institute for testing materials of the Republic of Serbia- – IMS Institute from 1977 to 1990.

After graduation at the Faculty of Civil Engineering of the University of Belgrade, the Structural department and completing the final exam on prestressed concrete led by prof. Vladimir Korolija, B.Sc.Civ.Eng. , I have started to work as a junior engineer at the Institute for testing materials of the Republic of Serbia - IMS Institute, Prestressed concrete centre. Many top experts from the sphere of civil engineering – structural engineering headed by Branko Zezelj and Bosko Petrovic, the members of the Serbian Academy of Science and Art were employed at the IMS Institute, Prestressed concrete centre at that time. It was an ideal place to learn and gain experience in all domains of the structural engineering and specially in prestressed concrete, earthquake engineering and prefabricated construction system. During the period from 1977. to 1990, excluding one year in regular military service in 1978/79, I have performed various engineering activities:

-preparation of the project documentation

large number of the main projects of the construction of a new objects:

- residential building in prefabricated skeleton system IMS – building area -El Hambra (Cairo, Egypt) , Dobrinja V (Sarajevo, Bosnia and Hercegovina) ,Pioneer square (Pozarevac, Serbia), Grujina cesma (Kragujevac, Serbia), etc.
- industrial objects – Warehouse for agriculture products (Ljubovija, Serbia) ,etc.
- projects of the construction of various objects, like “INEX” department store (Negotin Serbia),

large number of the main project repair of the construction :

- residential building in prefabricated skeleton system IMS damaged after major impact load (collapse of crane jib on the building under construction, collapse of precast shear wall during assembly and similar)- building area- Bloc 24 object I, lamella V, (Novi Beograd, Serbia) , Beksuja, building B 13 (Zvornik, Serbia); Cerak II (Beograd, Serbia); etc
- building damaged by earthquake in Montenegro on April 15, 1979: hotel “Splendid” within the hotel complex “Avala” in Becici; villa 300 of hotel “Milocer” in Milocer (as collaborator), etc; - bridges – Railway/highway bridge over Danube in Novi Sad (as collaborator), etc;

large number structural analysis and calculations:

- effects of seismic forces for residential objects designed in skeletal panel system, P+4 and P+8 in Podgorica (Montenegro);
- LIPP steel silo – structural analysis of silo cells of various diameters and hights, etc.

-analysis of the structural stability

- large number of various construction system where the quality failure of the concrete appeared during the performance of works.

-testing of geotechnical prestressed anchors

railway bridge LIM 2, Prijepolje (Serbia), etc.

-supervision of construction and repair of objects:

-construction of bridge and overpass over river Neretva (Mostar, Bosnia and Hercegovina);

-construction of industrial complex objects of MKS, II phase of cold rolling mill, steel factory Smederevo (Smederevo, Serbia);

-construction of tourist area "Slovenska plaza", HTP "Budvanska rivijera" (Budva, Montenegro);

-construction of Memorial home "Crvena komuna" (Petrovac na moru, Montenegro);

-repair of right slope in bridge area by river Danube (Beska, Serbia);

-Repair of objects after earthquake in Montenegro 1979:

-hotel complex "Avala" in Becici, HTP "Budvanska rivijera"—repair and revitalization (Budva,M.)

-monastery complex "Gradiste" (Petrovac na moru, Montenegro);

-Old town Budva - repair and revitalization (Budva, Montenegro);

-consulting, engineering and construction in the country and abroad:

-construction of Sport recreation centre "Moraca" —injection of prestressed sheets with profesional team from IMS Institute (Podgorica, Montenegro);

-construction of thermopowerplant 6 x 380 MW(Al Musaib ,Iraq) – consulting and supervision

-research projects:

-participation in large number of professional and scientific conferences in the sphere of civil engineering in the contry and abroad, as the author or co-author of the accepted papers;

-performing the educational courses and lectures within the team of IMS specialist in the domain of prestressed concrete and IMS system of prestressing as a part of permanent education of professionals in numerous enterprises in all parts of Yugoslavia.

During my work in the Institute I have passed the professional exam in 1980, and from 1980 to 1982 I was at the postgraduate studies on the Construction Department of the Faculty for civil engineering of Belgrade University and I have passed several exams. By the Institute IMS decision No. 0121/2 dated 26.05.1985.I was promoted to the research degree –The Researcher.

In my time spend in the IMS Institute I have passed the professional path from a trainee to Senior collaborator- researcher at the time I have left the Institute IMS on May 24th, 1990 when I moved to GP "Rad" – Designing department, where I was for a short period of time deputy manager and later on the Executive Manager of Designing department up to 2001.

Beograd, May 1990.

Borislav T. Tomasevic, M.Sc.Civ.Eng.