

# SEMINAR ON BHP STEEL SOLUTION OLYMPIC 2000



## Message

On behalf of the management of McDonald Steel Building Products Ltd., I would like to welcome Mr. Noor Crookshanks, General Manager, BHP Steel Business Development South Asia and his team for organizing this seminar at Dhaka and hope such events will be repeated in the future.

McDonald is associated with BHP for over a decade and is the only distributor of BHP Colorbond® and Zincalume® Steel Building Products in Bangladesh. The commitment to continuous research, development and innovation together with practice of quality assurance at all levels and keeping abreast with the dynamics of the building and construction technology has earned McDonald the trust and confidence of its customers.

To meet customer's requirement and demand for this durable, recyclable, design flexible, wide color choice and thermal efficient world class material, McDonald has set up a plant near Dhaka with technical co-operation of BHP. Currently we are producing Walling, Roofing, Cladding, Purlin (C-Section) and accessories such as Louvers, Ridge Capping, Fascia and Gutter etc. Along with these products we supply Self-drilling Fasteners, Silicone Sealant, Fiber Glass Sheet and insulation material from our ready stock. This means orders are processed in the shortest possible time and customers are able to schedule their construction program more effectively plus eliminating hassle of import from abroad.

We have a vision that is shared by all our team members. The vision for early 2001 is to supply complete Pre-Engineered Building System through the second phase of our project. It is definitely a bold step and with the support of our valued clients, Insha Allah we will be successful.

I look forward to a well-represented active participation and contribution to the success of this Seminar and invite all of you to travel with us on our journey to more success.

Thank you,

Md. Sarwar Kamal  
Managing Director  
McDonald Steel Building Products Ltd.



Sydney Showground Exhibition Complex.

## BHP STEEL

BHP Steel is an international manufacturer and distributor of quality steel products producing 9.2 million tonnes of raw steel a year. Products include a wide range of flat and sheet steel, building products, coated, paint and roll formed steel building and industrial products.

### BHP STEEL—ZINCALUME® and COLORBOND®

With a lifetime of up to four times that of ordinary galvanized steel, BHP ZINCALUME® steel delivers outstanding durability. But, more importantly, it also gives you the confidence that the award-winning material you've chosen for your next project will perform today and for years to come.

BHP Steel produces a range of products in various metallic coated and painted finishes to suit residential and commercial / industrial building application, providing extreme durability, whilst also offering superior design flexibility. Some of the applications for ZINCALUME® and COLORBOND® are:

**Residential roofing** - steel roof sheeting for residential applications manufactured from COLORBOND® steel.

**Commercial and Industrial Roofing and Walling** - steel roof and wall cladding for non-residential projects manufactured from COLORBOND® steel.

**Furniture and Household Appliances** - wide range of colors and easy formability.

### Why use BHP Steel :

- The superior oven-baked finish of COLORBOND® steel resists chipping, peeling or cracking. It is built tough and designed smart to withstand harsh Australian conditions.
- The versatility of COLORBOND® steel is renowned. It is lightweight, and can be curved to make an impression that really lasts.
- COLORBOND® steel is the thermal efficient roofing material of choice, keeping your home cool in summer and warm in winter.
- Steel is one of the world's most recycled products. In fact, steel scrap is now a major component in BHP's production of new steel. The modern range of colors for COLORBOND® steel offers a myriad of solutions to suit any home and any environment.
- Meets relevant Australian Building Standards Product performance.
- COLORBOND® steel is one of the most advanced pre-painted steel products in the world.
- For maximum durability in severe coastal and industrial environments, you need a premium product. COLORBOND® ULTRA pre-painted steel have been specially developed by BHP Coated Steel, Australia, to resist the corrosive effects experienced near the ocean and close to and in industrial areas.



Stadium Australia, Sydney.

## Major Clients of Colorbond® & Zincalume® Products

- Ctg. Port Authority • Beximco Group • Youngone Corporation • Univogue Garments Ltd. • Chittagong Knitwear Ltd. • Zia Smriti Museum • Australian High Commission • Civil Aviation • Banga Bandhu Bridge Authority • OPEX Group • SQUARE Group • Bata
- AB Fabrics • Tania Textiles • Apex Group • Summit Group • Singer Bangladesh Ltd. • Bangladesh Press Institute • Berger Paints Bangladesh Ltd. • Palma Group • REB • Tropical Knitex • Cemex Cement • Bangladesh Ordnance Factories • Babylon Group • Divine Textile Ltd. • Partex Group
- Scancem Cement Ltd. • JMI Bangla Co. Ltd.
- Madina Group • Landmark Foundation Co.
- Automan Limited • Bashundhara Engineering Ltd. • Al-Amin Bread & Biscuits Ltd. • Bangladesh Polymer Ind. • Bangladesh Army • Public Works Department.

## DESIGNING WITH STEEL

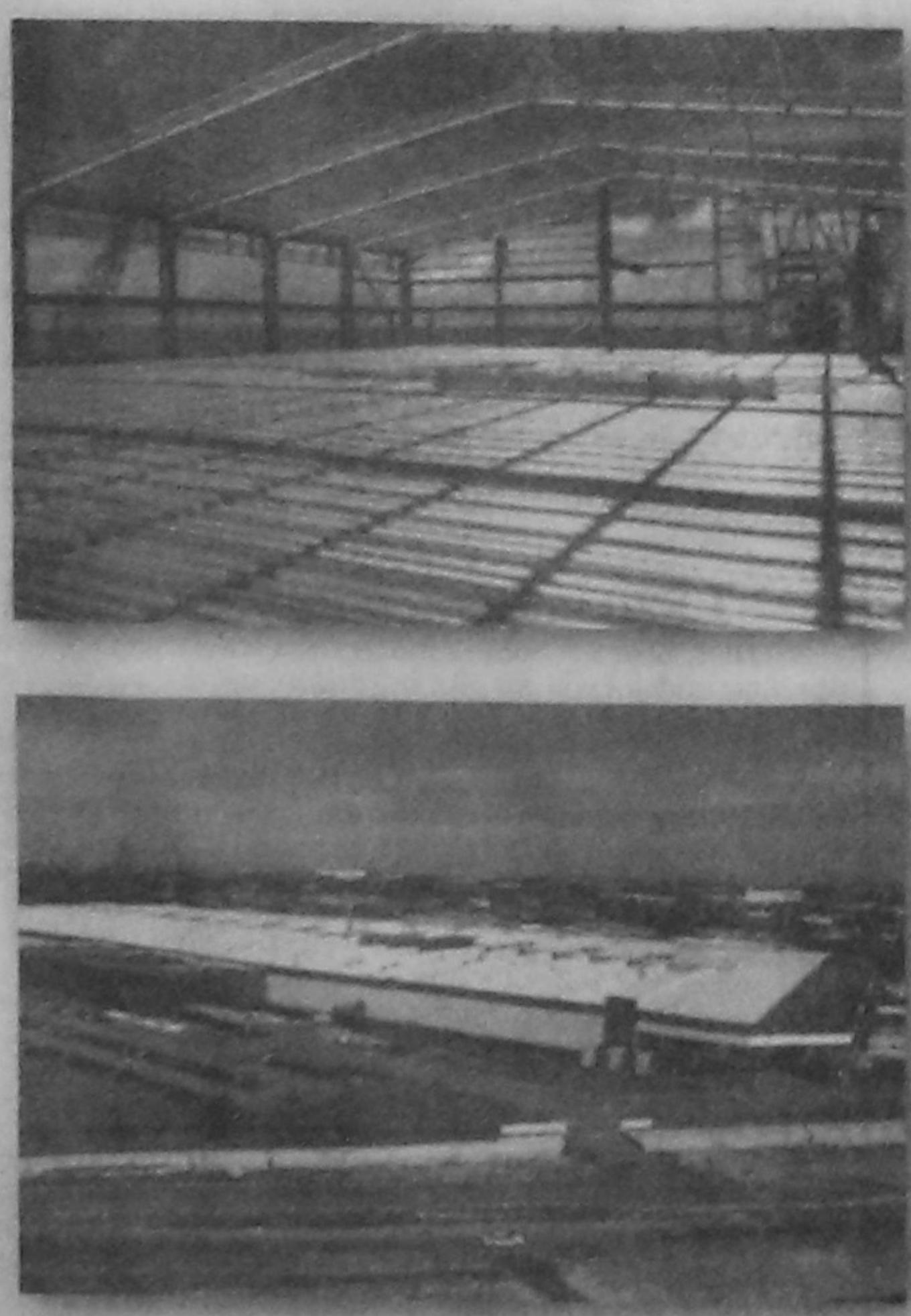
Steel's inherent characteristics of high strength to weight ratios combined with durability and design flexibility represent only some of the key factors guiding the choice of steel for some of the main venue structures of the Sydney Olympics 2000. Several of the venues are fast becoming icons of steel design throughout the Australian continent. BHP Steel has supplied more than 130,000 tonnes of steel to build the Olympic venues. This had provided a unique opportunity to demonstrate the design flexibility, innovative construction solutions and energy efficient technologies of steel that also meet stringent environment demands.

The award-winning Olympic Park Station, with its dramatic vaulted steel arches is the gateway to the Sydney Olympic Park venues.

Steel roofing features prominently in the Athletes Village, a model for energy efficient housing. Stadium Australia is the largest Olympic stadium ever built. An estimated 32,000 tonnes of steel has been used here. The "floating roof" of the Hockey center grandstand is a classic engineering solution made possible only because of the lightweight and flexibility of steel. The roof is suspended by steel cabling from a single 41-meter high steel mast. It is made up of LYSAGHT® KLIP-LOK® in Gull Grey BHP COLORBOND® prepainted steel. The Sydney Superdome creates a column-free performance space and uninterrupted viewing from all seats. The standout design feature of the Superdome is its lightweight steel dome roof, suspended by cables from 18 steel masts. The roofing is done from LYSAGHT®

KLIP-LOK® profile in BHP ZINCALUME®. Dunc Grey Velodrome is similar in shape to a cyclist's helmet. At 130 meters long and 100 meters across at its widest point, the clear span steel roof is big enough to cover a football field. The roof pushes steel fabrication, construction and engineering techniques to new heights. The Blacktown Olympic Center, home to Olympic softball and baseball, features a landmark softball grandstand in which steel is the primary construction material. The off white BHP COLORBOND® steel clad roof is supported by 10 separate steel truss structures. The Sydney International Archery Park pavilion, with its distinctive steel "roof with a twist", has been designed to protect archers and spectators from the weather elements, and at the same time reflect the dynamic, fluid nature of the sport. The roofing and walling is done in bare ZINCALUME® steel. Sydney International Shooting Center, designed to nestle into the surrounding landscape, features a pavilion with a simple, elongated skillion roof stretching 280 meters. Sydney Showground Exhibition Complex, boasting the largest domed structure in the Southern Hemisphere, makes environmentally-sound use of both steel and timber in composite. The dome features COLORBOND® steel in external cladding and the ceiling has perforated COLORBOND® steel sheet. Steel was chosen for the Sydney International Aquatic Center because of its speed of erection, ease of dismantling and ability to be reused, in line with the ecologically sustainable development principles adopted for Sydney's Olympic Games construction program. The Media Village, The International Broadcasting Center, The Sydney International Equestrian Center, Sydney International Regatta Center and the Whitewater Stadium all feature an extensive use of BHP COLORBOND® and BHP ZINCALUME® in their roofing and cladding areas.

According to the Olympic Committee, Sydney's "Green Games" is an effort to an ecologically sustainable development. It has set new standards for future urban development. The ecologically sustainable development is a new approach, which has thrown out a challenge to the engineers and architects the world over to achieve cost-effective, environmentally friendly building designs without compromising structural integrity and aesthetics.



# WELCOME PARTICIPANTS

Technologically advanced and environment friendly building material, now produced in Bangladesh using **BHP Zincalume®** steel and **Colorbond®** steel by **McDonald Steel Building Products Limited** with the technical co-operation of **BHP Steel** Australia.

Leading edge solutions for Roofing, Walling & Cladding application in the **Commercial, Industrial, Residential and Infrastructure** Sector - From the World Leaders in Aluminium / Zinc Alloy Coated Steel Technology.

### The advantages

- ✓ Thermal efficiency ✓ High strength ✓ Recyclable ✓ Wide color choice
- ✓ Durability / Security ✓ Design flexibility ✓ Hi-Tech production

## McDonald Steel Building Products Ltd.

"Your Partners in Quality Steel Solutions"

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