



setting the construction standard


LINKING DESIGN AND CONSTRUCTION IN TERMS OF HEALTH & SAFETY.

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NMC Construction Group 

Content (building trust)

- Background on NMC
- Design & Construct Philosophy
- Culture
- Constraints
- Safety & Design

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Delivery capability (building trust)


We offer clients fully **integrated building and civils** construction solutions across all sectors of the economy.

privately owned, multi-disciplinary construction group offering clients an integrated building and civils solution based on the principle of building trust

Established Offices

- Cape Town
- Port Elizabeth
- East London
- Durban
- Johannesburg
- Kathu
- Springbok
- Windhoek




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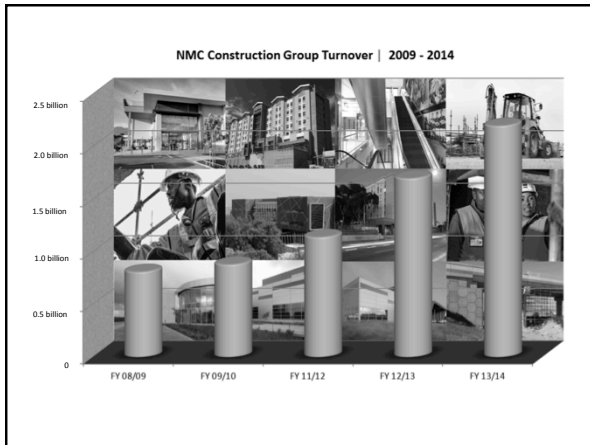
Sectors (building trust)

With our civils and building expertise, supported by our wide geographic footprint, capex infrastructure and project management we undertake large complex project in all sectors of the economy.

<p>Building</p> <ul style="list-style-type: none"> - government infrastructure - commercial buildings - retail facilities - hospitality sector 	<ul style="list-style-type: none"> - industrial and logistics facilities - institutional facilities - schools, hospitals - agricultural infrastructure
<p>Civils</p> <ul style="list-style-type: none"> - concrete structures - road construction - civil construction 	<ul style="list-style-type: none"> - road rehabilitation and maintenance - township development - road building
<p>Mining</p> <ul style="list-style-type: none"> - mine infrastructure - building infrastructure - access roads 	<ul style="list-style-type: none"> - industrial and logistics facilities - road building and maintenance - earthworks

CIDB Grading: Building – GB3 | Civils – CE3 | Asphalt Supply – SB5

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ISO: International Organisation for Standardisation

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Our quality management systems intend to increase our organisational efficiency and client satisfaction through increased productivity, reduced costs and ongoing improvement of the quality of our processes and products.

Dakra Certified in the following three standards:

- ISO 9001:2008 – Quality Management Systems
- ISO 14001:2004 – Environmental Management Systems
- ISO 18001:2007 – OHS Management Systems

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PHILOSOPHY of Design and Construct

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Delivery Culture

(building trust)

Who is part of our team

NMC leading the process

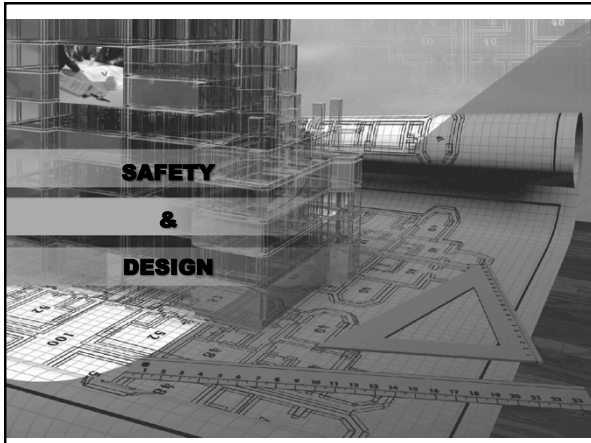
In partnership with:

- Client
- Consultants
- Co-contractors
- Suppliers

SHARED COMMITMENT

never work in isolation | relationships that inculcate respect | keep in contact
take responsibility | help each other | don't capitalise on misfortune

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CHALLENGES

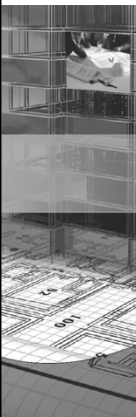
- Fast Track Programmes.
- Constant Design Changes.
- Lack of Information

CHALLENGES

- Poor H&S by Sub-Contractors.
- Mix batch of H&S cultures.


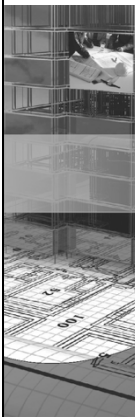
BRIEFING

- Collaborative approach to design based on clients brief.
- Identify safety Risks.
- Pre-planning



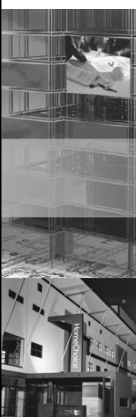
Briefing - Aspects

- The most efficient design for the structure to be discussed by all role players.
- The various specialist installers then to prepare methodology for installation.
- Risk assessment then conducted on the methodology and design on impacts regarding safety, cost and time.
 - **Pre-construction**
 - Prefabrication
 - Delivery to site
 - **During construction**
 - Site Congestion
 - Working at heights
 - Accessibility for erection and indirect costs associated
 - Sequencing of works and congestion
 - Minimal wastage to allow for a cleaner site
 - Use of materials



Briefing

- **During construction (cont)**
 - Plant required for operations
- **Post Construction**
 - Accessibility to roof areas and facades
 - Safety of staff performing maintenance of building.
 - Use of materials with least impact on alterations
 - Allowance in design for future expansion without impacting on safety of inhabitants



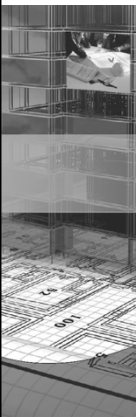
DESIGN

- **DESIGN SAFETY INTO DESIGN**
 - Needs collaborative approach of all stakeholders to address practical on site needs in order to get it right 1st time.
 - Methodology to be understood in order to avoid poor or expensive safety remedies for installation.
 - Planning and program to be done up front and understood by all to ensure that all stakeholders understand critical time constraints. Dealing with late information or crisis management introduces additional safety risks onto a project as a result of out of sequence work.
 - Maintenance methodologies to be considered for client in order to provide for safety post construction.


Budgeting

- Methodologies are to be examined & challenged for effectiveness and efficiencies relating to design. This goes hand in hand with safety.
- Most safety costs are built into P&G, however these can be reduced and included in trades where modifications are made to building elements that cater for safety requirements.
- Synergies between trades integrated for reduced costs.
- Responsibility of safety is not left solely to the main contractor but is shared between all stakeholders on site thus mitigating risk and reducing costs.



Continuous Improvement

- KPA's held with all stakeholders
- Post contract Analysis conducted with team.
- Solutions sought for future challenges and implemented.



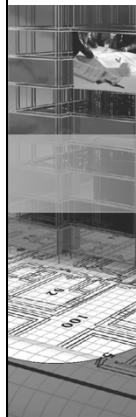
Catch people working safely.

REET

UNDERSTAND
- Open questions

ALK &
Challenge

TOP OF
SUPPORT
Commitment



Conclusion

- Culture to be instilled :
 - Relationships - respect.
 - Discipline
 - Pride
 - Trust
- Pre-planning
- Collaboration and not isolation.

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Q & A

(holding over)