

CONSTRUCTION NEWS

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• **NCC: Aims and Objectives**

- To unify the construction Industry, to promote its well being, to strive to create a profitable environment for its constituents, and to establish a united national platform encompassing formal and informal sectors of the industry and its professions
- To contribute to the reconstruction, rehabilitation and development of Zambia and the uplifting of all its people
- To promote and advance the status and public recognition of NCC, its members and the construction industry
- To promote encourage, support or oppose any legislation or other measures affecting the industry
- To address macro issues affecting the industry
- To co-ordinate, improve and facilitate the accessibility of training
- To strive, achieve, monitor and maintain the highest possible standards in the construction industry
- To add and amend these objects from time to time as decided upon by the National Council

CONSTRUCTION INDUSTRY END OF YEAR (2001) REVIEW



Road construction has been the cornerstone of the Zambian construction industry in the last few years

With the low levels of investment experienced in our construction industry this year ending, it is not surprising that most of our members and readers alike will welcome the end of this year and be looking forward to the beginning of the new year. The year 2001 will certainly be remembered as the year when the industry started with very great expectations for a construction boom, but ended up with a practical slump.

Expectations in the construction industry emanated from the fact that Zambia was going to experience a boom in the

tourism industry resulting from the June 2001 total Solar Eclipse and Zambia's hosting of the 2001 OAU Conference. To crown it all, Zambia was also expected to officially launch RoadSIP Phase II with an envisaged total investment of US\$800m, of which about US\$600m was to be in form of grants from the donor community. At the end of the day, however, none of the above three events really helped to kick start of our ailing construction industry.

Expectations were that an influx of tourists coming in for the solar eclipse would lead to the construction of

more hotel rooms and associated infrastructure, or at least the refurbishment of existing ones. On the contrary, extra bed space was created by the opening of more illegal guest houses in most parts of Lusaka and other towns/cities of the country.

The hosting of the OAU Conference was on the other hand a total nightmare for the construction industry, as the government decided to contract PHI to build the Presidential Villas for the visiting heads of states, but only to

Continued on page two

CONT. CONSTRUCTION INDUSTRY END OF YEAR (2001) REVIEW

“Promoting a knowledge economy, as most successful countries have shown, requires coordinated action across multiple domains: finance, trade, industry, science, education and infrastructure.” Yukon Huang -World Bank Country representative for China

From page one
abandon the scheme weeks before the actual hosting of the conference. The Zambian government later changed its initial weekly update statements on the then OAU Village by claiming that the project was never meant for hosting the OAU conference delegates and dramatically renamed it the Millennium Village! Todate, the OAU Village, alias Millennium Village still stand unfinished, without any explanation from Government.

Consequently, the PHI has ended up being a political issue rather than a construction matter. I therefore, leave the PHI issue to our politicians to resolve.

If however, there is a lesson to be learnt from the PHI saga, it is that politicians should leave construction matters to institutions best suited to do them. I for one, I am convinced that had Government (PHI) involved the private sector from the word go, Zambia would now have been boasting of a

new and completed set of housing stock to the already existing ones.

The year 2001 will also be remembered for the sharp increase in the number of allegations of racial abuse and slave wages by some Zambian workers working for some construction companies. Although one is happy to note that almost all the political parties vying for office in this years' tripartite elections, including those that never recognised the problem when in office, have promised to tackle the racial issue when elected into office. One is however, concerned with some of the ways and means that some of these political parties intend to employ to arrest the aforementioned problem.

RoadSIP (Phase I) thus remains the only public construction programme to have had a positive impact on our construction industry per se. The government, however, lost an opportunity to build on its success in RoadSIP II. It

must also be clearly stated that although RoadSIP I made a very huge impact on our physical infrastructure, it was a total disaster when it came to empowering Zambian construction companies. Hardly any Zambian contractors benefited from this huge investment of tax payers money in the guise of economic liberalisation. There can be no denying the fact that RoadSIP I actually benefited foreign construction companies more than local ones.

Whereas, RoadSIP had well drawn plans for rehabilitating our Feeder roads, Government however, saw it fit to release K3bn to each province for feeder roads just weeks before the start of this year's rain season.

On a positive note, there have been some private investment in in construction industry in form of the building of the Arcades Shopping Mall in Lusaka, Protea Hotel in Chingola and another shopping mall is planned for Kitwe.

CONSULTING ENGINEERS ELECT LUAMBE MONDOLOKA AS NEW CHAIRMAN AS ARCHITECTS RETAIN NKOLE BWALYA

The Association of Consulting Engineers of Zambia (ACEZ) recently held elections for its executive council, where Mr. Luambe Mondoloka was elected as its President for the period 2001/2002. Mr. Mondoloka is a partner at Brian Colquhoun Hugh O'Donnell and Partners and is also the current Vice Governor

for the Lions District 413 (Zambia). The Vice President is Mr. Rénatus Mushinge (Bicon Zambia) whilst Mr. Ian Miller (ZMCK) was retained as Honorary Treasurer for the another year. Mr. Yande Simbule (Zulu Burrow) is the Honorary Secretary.

The Zambia Institute of Architect on the other

hand retained its President, Mr. Nkole Bwalya for a second year term. The ZIA Council also consolidated its Executive Council with two new faces being that of Mrs. Irene Ndilila of Ndilila Associates and Mr. Bernard Mbaao a Lecturer at the Copperbelt University in Kitwe.

ZAMBIA FAILS TO LAUNCH ROADSIP PHASE II AS US\$ 800 OF DONOR FUNDS GO BEGGING

The Zambian Government has failed to launch RoadSIP Phase II after failing to satisfy the donor community on a number of set conditionalities. Among these conditionalities was the demand from the donor community that Zambia produces and adopts a transport policy document. Whilst the failure to launch this very important agreement with the donors will not immediately be felt as we are still exhausting the litter funds from RoadSIP I, come mid next year, the impact will be more than severe, not only to our

physical road infrastructure, but also to our Road consultants and contractors.

As I have said in this newsletter time and again, the Zambian construction industry has managed to record positive growth in the last few years because of its dependence on road contracts under RoadSIP. In reality, however, most of these roads contracts went to foreign construction companies.

Given the important role than RoadSIP continues to play in national development, we in the construc-

tion industry can only urge the party that will form the next government to urgently address the concerns and bottlenecks that have led to the delays in launching RoadSIP II.

Serious thought should also be given to launching a similar scheme for the building sector especially that, most of our public buildings are completely run down and are insufficient to service this country. For example, there is need to build more police stations and houses.

REPORTS OF SHODDY CONTRACTORS CONTINUE TO POUR IN

Reports of shoddy contractors undertaking government construction projects have continue to appear in our local newspapers. Hardly a day passes without one reading of a shoddy contractor being warned of his poor performance, or at worst running away with the ad-

vance payment..

But, how are these contractors picked in the fist place? I think the fault lies entirely with the Government contractor registration and procurement processes. For instance, most of these "shoddy" contractors have no proven record, let alone experience of having under-

taken work of a similar nature and yet they are awarded big government contracts!

The NCC through its affiliate members has a list of proven contractors which government would be advised to use and cooperate with the NCC to stop the aforementioned vice.

CHILANGA CEMENT PLC UNDER SEVERE BUSINESS PRESSURE TO CLOSE?

Lafarge, the French company that owns over 80% of Chilanga Cement has threatened to close down their business operations in Zambia, following persistent unfair competition from our southern neighbour and COMESA partner; Zimbabwe. The **Times of Zambia Business News** of 18th December 2001n reports that La-

farge Managing Director for East, Southern Africa and Indian Ocean a Mr. Alain Le Meuir said that his company was contemplating closing their Zambia operations due to the fact that Zimbabwe was able to bring in their cement at a much lower price than the locally produced cement. It is alleged that Zimbabwean cement is landed

here at lower rate than Chilanga cement. The two ties exchange rate of US dollar and the Zimbabwe dollar has equally contributed to this unfair business between the two countries. Although the report says that Government is seriously addressing the problem, we have no clue what it is that the Government is working on.

"Zambia does not need foreign investors who bring in Jolly Juice, Zambians are capable and therefore deserve much more than Jolly Juice"-Michael Sata; Patriotic Front President

***The Pollution
haven Hypothesis***
*states that multinational
firms, particularly those
in highly polluting
industries, relocate to
countries with weak
environmental
standards.*

AFTER THE DESTRUCTION OF KABUL-AFGHANISATAN NOW COMES THE RECONSTRUCTION

After weeks of massive aerial bombardments by the United States Air-Force and its allies over Kabul and other Afghanistan towns and cities, plans are already underway to develop a Marshall plan for the reconstruction of that country. Afghanistan which was a very poor country even before the allied bombings, has completely been flattened by the US air power, but the same countries that destroyed the country are now discussing how to redevelop the country.

The exact figures in terms of what it will cost to redevelop

and the time frame for redevelopment are issues that the allies are not yet agreed upon. Whist Germany has come up with a modest figure of US\$ 6bn as the money needed to rebuild Afghanistan, the British on the other hand are talking of about US\$ 20bn. The truth of the matter, however, is that no body knows for sure the reconstruction bill for Afghanistan, let alone how long it will take to complete.

Figures on Afghanistan indicate that less than 25% of Afghans have ac-

cess to clean drinking water and that almost 90% of the population have no access to proper sanitation.

The rebuilding of Afghanistan will no doubt provide business opportunists for a number of construction companies in the developed countries of American, Europe and Asia. It is doubtful, however, whether the construction industry in the developing world, especially Africa, despite its abundant cheap labour will reap any benefits from this planned Marshall plan.

BCC Business News

BRITONS STILL UNDECIDED ON RE-BUILDING THE ONCE MIGHTY WEMBLEY STADIUM

Key stakeholders in the reconstruction of Wembley Stadium in Britain, would appear still undecided on the final design and cost of rebuilding the British National stadium. Although, headway has been made, in all key aspects of rebuilding the stadium, the final decision is still awaited. It

has also emerged that London is not the only possible site for the British national stadium, Birmingham is another realistic option.

Birmingham has put forward plans for a 324m Pounds stadium just outside the City. Other cities have now literally been

eliminated from possible site options.

Australian contractors, Multiplex appear to be the most likely picked contractors for rebuilding the once mighty Wembley stadium. Multiplex are said to have proposed underwriting the buildings costs and then leasing the stadium back.

INDIA'S HIGHWAY UPGRADE TO SPUR HUGE ECONOMIC BENEFITS TO THAT COUNTRY

The Indian Government recently approved a US\$ 6bn budget for upgrading its major highway road network connecting Delhi, Chennai, Calcutta and Bombay. The proposed new four lane highway will replace the current two lane highway. It is also proposed under the same project to include service roads, ex-

press way sections and town bypasses. The aforementioned project marks a significant return to public expenditure programmes for the Indian Government and expectations are high that this project will indeed generate a lot of economic spin offs, not only for the Indian construction industry, but to the rest to the

economy.

The main source of funding for the above project is said to have come from a number of internally generated funds among them the fuel levy from petrol and diesel sales. We will be monitoring progress on this project and keep our readers posted. **BBC World Business News**

**Women in construction– Ms Kakulubelwa Mulalelo
Quantity Surveyor – Central Board of Health (CBoH)**



“My opponents have been going around calling me a cabbage, I hope that after five years there will come to realise that actually I am not a cabbage but steak”-Levy

*Patrick Mwanawasa;
MMD’s Presidential candidate*

Q. What is the best aspect of your job?

A. I enjoy my work and the best aspect of it is that it is diverse and challenging.

Q. What is the worst aspect of your job?

A. When I come across situations where progress is not made due to lack of prioritization.

Q. Can you please describe to us, your typical working day.

A. My typical working day involves answering to que-

ries, coordinating activities towards capital projects, preparing estimates, valuations and general quantity surveying activities.

Q. Do you regret becoming a Quantity Surveyor or entering this male dominated industry?

A. No, I have never regretted becoming a Quantity Surveyor or entering this male dominated indus-

try. I take it as a challenge both for myself and others who may have classified the industry as a ‘men’s only zone.

Q. Who has been your greatest inspiration in your life, especially taking up Quantity surveying as a Career?

A. My family has inspired me in everything I have

**Women in construction– Ms Kakulubelwa Mulalelo
Quantity Surveyor – Central Board of Health (CBoH)**



chosen to do. I can give them gratitude for always being at my side and supporting me throughout my life.

Q. What has been your favourite project to date?

A. Pre-Contract documentation for Chirundu Water & Sewerage Scheme.

Q. If you could swap jobs, what would you choose to do?

A. I wouldn't wish to change jobs but given an

alternative, I would opt for accountancy.

Q. Which schools, colleges and Universities did you attend?

A. Secondary School: Fatima Girls, Ndola 1986 – 1990

U n i v e r s i t y: Copperbelt University

School of Built Environment
1992 – 1996

Q. What are your future plans, career wise?

• I would like to pursue a further course in

'Project Management' and one day open up my own consultancy practise.

Q. What are your hobbies?

A. Reading, Singing and listening to music

Q. What piece of advice do you have for the young girls or women intending to become Contractors or taking up any other construction related jobs?

A. I would like to tell the young girls and women out there that you can only get out of life what you have put in as an individual. Do not be discouraged by what others may say. If you want to do something, work hard and you will achieve it.

"Knowledge and information are becoming the key drivers of international competitiveness and the global economy."-Carl Dohlman World Bank Official

TENDER NOTICE

INVITATION FOR EXPRESSION OF INTEREST

013/06/010: TENDER FOR THE CONSTRUCTION OF THE NEW NKHOTA- KOTA DISTRICT HOSPITAL, REPUBLIC OF MALAWI

The Government of the Republic of Malawi has received a loan (No. 725p) from the OPEC Fund for the International Development towards the cost of new Nkhota-Kota hospital and intends to apply part of the funds to cover eligible payment under the contract for the construction of the new Nkhota-Kota hospital complex, staff houses with all associated external works.

The project involves construction of the following:

- (a) 20 No. single storey hospital buildings
- (b) 60 No. single storey houses; and
- (c) sewerage disposal system and associated external works.

All grouped under one (1) Lot.

The Zambia National Tender Board on behalf of the Government of the Republic of Malawi now invites eligible contractors registered in Zambia to submit written applications for inclusion on the mailing list.

Eligible applicants are those who qualify as defined in the Procurement Guidelines under the Loans extended by the OPEC Fund. The successful applicant will be expected to complete the works within a period of 24 No. months.

Bidding documents shall be issued on 30th October, 2001 and the deadline for the receipt of bids shall be 4th January 2002 at 15:00 hours. Bids shall be opened immediately thereafter in Room No. 60, Ministry of Health Building, Capital Hill, Lilongwe, Malawi.

Those wishing to be included on the mailing list must submit a written application to the following address and not to the Zambia National Tender Board.

The Project Manager
Zingano & Associates
St. Martins House
P.O. Box 31039
Lilongwe 3
Malawi

“Political parties without supporters should not waste the Chief Justice's time as he has other duties to attend to. If you don't have supporters don't bother other political parties. MMD is not in the business of renting out supporters— Vernon Mwaanga; MMD National Secretary

SPECIAL FEATURE: OTTA SEAL SURFACING IN ZAMBIA-
 Raphael Mabenga MSc, Eng, MIHT, MBIE, MEIZ, R.Eng
 Coordinator (Highway Engineering), National Roads Board

1.0. Introduction

Otta seal is a name that was derived from a valley in Norway where it was first used in sealing gravel roads. It is now among the following surfacing types: Sand seals, surface dressing (chip seal), cape seals and asphaltic concrete.

It is formed by placing graded aggregate (crushed or uncrushed, fines included) on a relatively thick film of soft binder (150/200 pen) which, on rolling and trafficking can work its way upwards through the aggregate interstices. Graded aggregates rely both on mechanical interlocking and on bitumen binding for its strength. No prime is required. They are well suited for use with local materials, which may be non-standard, or of marginal quality and have proved to be durable and cost effective in many parts of the World including Botswana, South Africa and Kenya. In Zambia, Otta seal could be used on tourist roads, residential areas, etc.

2.0 Types of Otta seals

- a) Single seal – aggregate grading “open”, medium or dense with sand cover seal or without sand cover seal.
- b) Double seal – same as above

3. Economic Assessment of Otta seal Vs Chip seal

In order to obtain life cycle costs for alternative surfacing types the following are required for the calculations:

- a) Initial construction cost
- b) Fog spray (number required and cost)
- c) Reseals (number required and cost)
- d) New road markings after each intervention
- e) Discount and inflation rates

Description	Otta Seal		Double Chip seal
	Single + sand cover	Double	
1. Life Expectancy (years)	11	15	7
2. Maintenance activities	Reseal after 10 years. Road marking 3 times	None	Fog sprays after 4 and 16 years. Reseal after 8 and 12 years. Road marking after each intervention (4 times)
3. Initial relative cost of construction	1.0	1.2	1.2

Figure 1 (Source: A Guide to the Use of Otta Seals, NRRL, 1999)

Life cycle costing using a conservative approach in Botswana showed that the Otta seal gives a saving of 50% in comparison to chip seal. They could be used in new construction and road maintenance.

4. Experiences from other countries

The use of Otta seal as reseals do not differ from other sprayed types of bituminous reseals that are commonly used. Otta seals are well suited as a reseal for roads that are extensively cracked/patched, but which are structurally sound, because of the use of low viscosity binders, high binder content and good interlock between particles, making the seal rela-

“24 countries that increased their integration into the World economy over two decades ending late 1990’s achieved higher growth in incomes, longer life expectancy and better schooling”- World Bank Policy Research Report on Globalisation, Growth, and Poverty 2001

SPECIAL FEATURE-cont.

Continue from the previous page

tively flexible. They have been extensively used in the following countries:

Country	Km done
1. Norway	12,000
2. Sweden	4,000
3. Botswana	2,400
4. Zimbabwe	80
5. Kenya	500
6. Iceland	2,000
7. South Africa	100

Figure 2 (Source: A Guide to the Use of Otta Seals, NRRL, 1999)

In Botswana, three air fields at Shakawe, Gumare and Maun were constructed with Otta seal surfacings between 1984 –1995 and no periodic maintenance are needed up to now.

5. Applicability

- | | |
|---|------------------------------------|
| 1. Temporary seal (diversions, haul roads, accesses, etc) | Single Otta seal |
| 2. Maintenance resealing | Single Otta seal |
| 3. AADT less than 500 | Single Otta seal + sand cover seal |
| 4. AADT greater than 500 | Double Otta seal |

Figure 3 (Source: A guide to the Use of Ottaa Seals, NRRL, 1999)

6. Training

Since this is a new type of seal, there will be need to train stakeholders in design, construction and maintenance of Otta seals in Zambia. Arrangements are being made to run a workshop in February/March 2001.

7. Conclusion

Since this type of seal has proved to be cost effective (saving of 50% recorded in Botswana), use marginal materials (e.g. gravel is abundant in most parts of Zambia) , lasts longer than conventional chip seals, more tolerant of bad workmanship than chip seal and suited to labour-based methods that could alleviate poverty in Zambia, it is recommended that clients and consultants should take a lead in introducing this type of seal in Zambia so that more roads may be maintained within our merger resources. This will help to address the backlog of maintenance and spread development throughout the country. We could also reseal some low volume roads in the country.

References

1. A Guide to the Use of Otta Seals, Road Technology Department (NRRL), 1999
2. PIARC XXist World Road Congress at Kuala Lumpa, Malasia, October 1999
3. Workshop Proceedings on design, construction and maintenance of Otta seals, Botswana, September 2000

“As women, we have talked for too long since Zambia’s independence in 1964. Now it is time to act, nothing else but action”-Vera Chiluba

Regional Seminar for Labour-Based Practitioners; Maputo Mozambique

Invitation to the 9th Regional Seminar for Labour-based Practitioners, Maputo, Mozambique

The National Road Administration of Mozambique is pleased to extend an invitation to all practitioners in Labour-based technologies to attend the Ninth Regional Seminar for Labour-based Practitioners which is to take place in Maputo, Mozambique, from 19th to 24th May 2002. Further details and a registration form are given in the attached information pack (contract the NCC Secretariat).

Theme of the 9th Seminar will be 'Towards Appropriate Engineering Practices and an Enabling Environment'. We aim to organise a seminar that focuses on the practical issues faced by those involved in the day-to-day implementation of labour-based works and comes up with conclusions that define best practice in the field. The best of the abstracts that are submitted under this very wide general theme will be selected and used to define the sub-themes and topics for discussion on the seminar. We hope that you will accept this challenge to produce a paper that will set the theme for the 9th Regional Seminar.

The seminar will take place at the **Hotel Rovuma, which** is located in the centre of the city of Maputo. We hope that you will find time to appreciate a little of the cultural diversity of Mozambique during the course of the seminar, and can thoroughly recommend that you spend some additional time in Mozambique enjoying the pristine beaches that line our 3000 km long coastline.

Fee for attendance at the seminar has been fixed at 480 USD for those paying before 1st February 2002. We have negotiated hotel rates per night for single rooms varying from 85 USD at the Rovuma (seminar venue) to 35 USD at the Hotel Moçambicano. Please note that in order to guarantee your hotel booking, a payment for one night must be made 2 months in advance. Optional tours to visit labour-based sites or tourist resorts can be programmed for the days immediately following the seminar if enough interest is indicated in advance. This would be at an extra cost. Some options are given in the information pack.

For more information, please contact the Steering Committee whose address is given on the attached brochure. If you have difficulty contacting ANE our e-mail is: regsem9@virconn.com. You may also try ILO/ASIST at:-

PO Box 210, Harare, Zimbabwe, Tel: +263-4-369824-8
Fax: +263-4-369829, Email: asist@ilosamat.org.zw,
asist@africaonline.co.zw

We would be grateful if you would confirm your participation, either to present a paper, attend the seminar or make a post-seminar tour as soon as is convenient. Looking forward to meeting you in May 2002.

"How can Government ensure a private sector driven economy when the private sector has no say in the running of the economy because of poor representation" - Zambia Association of Chambers of Commerce and Industry (ZACCI)

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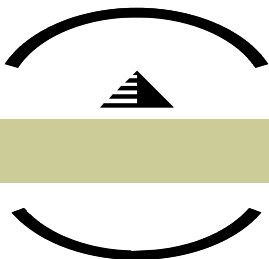
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*Helping to
develop Zambia*



1.0 CHRISTMAS BREAK

The NCC Secretariat like most other construction firms will be closed for business during the Christmas and New Year's break, being the period between the 22nd December 2000 to the 7th January 2001 both dates inclusive. We wish to take this opportunity to wish all our members and business associates a very happy Christmas and a prosperous new year.

Please don't drink and drive

2.0 AFRICAN EXPO USA 2002, CALIFORNIA

Air North South Ltd, in cooperation with the First Trust Consultants Ltd of Kenya and in consultation with Siera Delta International and Meeting Planning Consultants, both of Los Angeles, California, have organised the first ever African Expo USA 2002 in California, USA. The main objectives of the exposition to be held from June 10 - 17 are:

- to promote and increase trade between Eastern and Southern African Countries with USA and the adjacent islands
- to promote and to attract investment opportunities between Eastern and Southern African countries and the USA
- to promote and to market the tourism potential between Eastern and Southern African Countries with USA and the adjacent islands
- to promote African designers and showcase African fashions from Eastern and Southern African Countries with USA and the adjacent islands
- Eastern and Southern African States to approach the African and Growth and Opportunity Act (AGOA) as a block for the mutual benefit of all the States in the region.
- Facilitate Business-to-Business (B2B) network.
- To promote private sector initiatives under COMESA, SADC, EAC protocols and agreements

For further details contact the organisers on Telefax: 254 2 342158, e-mail: info@airnorthsouth.co.ke or visit their website: www.airnorthsouth.co.ke/westcoast

3.0. 58th International Builders show-8-11t February 2002-Georgia World Congress center-Atlanta, Georgia USA

The 58th Annual International Builders Show offers attendees a unique opportunity to explore more than 92, 900 square meters of exhibits containing the latest and most innovative residential and commercial building products and materials. With more than 70, 000 attendees heading to Atlanta, Georgia from all corners of the globe for networking, educational seminars and 1, 000 plus exhibits. The International Builders Show is clearly a must see event for everyone involved in residential and commercial construction..

You can register online at www.BuildersShow.com/International

THINKING OF ORGANISING A WORKSHOP/ CONFERENCE/SEMINAR? THEN CONTACT NCC SECRETARIAT

The NCC, as part of its activities either on behalf of its members or for independent clients, organises conferences, workshops and seminars on a variety of topics related to the Construction industry. Resource persons can be drawn if required from its membership of consultants, contractors and Government.

The NCC operates a full time secretariat which is currently situated at the

Government Roads training School, Plot 1609/1625, Off Sheki Sheki Road, Light Industrial Area. The NCC also provides the following services; Photocopying, fax, e-mail, typing and internet facilities.

To organise a workshop/conference/seminar the independent client or member organization will have to:

Make a request in writing stipulating the type of ser-

vice required

Pay a non-refundable commitment fee of US\$250

Contact persons:

Dr. M.S. Mashamba -
Executive Secretary :
01-243115/096-763669

Mrs. Cynthia M. Majula
Secretary/Documentalist
01-243115

Website:<http://www.ncc.co.zm>



123Greetings.com

The President, National Council and the Secretariat of the National Council for Construction (NCC) would like to wish all their members, readers and business associates "A happy Christmas and a prosperous New Year".