5. Soft Component (Technical Assistance) Plan

5. Soft Component Plan

(1) Background of the Planning of the Soft Component

One of the problems which the Study Team became acutely aware of during the field survey on the 50 schools for which Japanese assistance was originally requested was the lack of a local custom of carefully using and maintaining public facilities. Under these circumstances, there is a strong likelihood that the new facilities will deteriorate or be damaged within a few years unless education on the importance of routine cleaning and maintenance is provided. In regard to the toilet buildings, proper arrangements for the removal of sludge from the pits and other necessary maintenance work must be made. Given the fact that adequate budgetary funding for the maintenance of school facilities is unavailable in Nigeria, the required maintenance is not feasible without the participation of the PTA and local community.

The planning, statistics and research section of the SUBEB is in charge of school facility maintenance while the school inspectors of each LGEA are in the best position to monitor the front-line activities of school management. Taking the opportunity provided by the Project, facilitation of the capacity development of all stakeholders and strengthening of the monitoring and supervision system for school facility management are important from the viewpoint of ensuring the continual maintenance of the new facilities constructed under the Project.

(2) Outline of the Project

The Japanese assistance for the Project will consist of the construction of 287 new classrooms, the supply of 5,740 sets of pupils' desks and chairs, 287 sets of teachers' desks and chairs and 287 sets of blackboards and noticeboards for 30 target schools and the construction of 272 cubicles at some of the target schools.

(3) Targets of the Soft Component

The actual contents of the soft component will be ① formulation of guidelines and a manual, ② demonstration of maintenance activities at a model school and ③ development of the basis for effective facility maintenance through workshops. While the soft component directly benefits pupils, it is also designed to make other stakeholders, such as community leaders, principals and teachers, all of whom are the main players in school management and maintenance, acquire a sense of ownership so that the new school facilities to be constructed under the Project will be continually maintained. The preparation of a maintenance manual as a tool for effective and efficient monitoring and guidance on school maintenance by the SUBEB and LGEA will strengthen the existing

system.

(4) Outcomes of the Soft Component

The implementation of the soft component is expected to produce the following outcomes.

1) Principal's, teachers and community leaders who are the main players in school management and maintenance will develop a sense of ownership which will motivate them to actively plan and participate in the maintenance of their own school facilities, including those to be constructed under the Project.

2) Pupils at the target schools will recognize that their classrooms, desks and chairs constitute essential educational facilities and furniture for not only themselves but also for the next generation of pupils. Based on this recognition, they will develop a custom of cleaning their own school by themselves.

3) There will be an improved system of monitoring and guidance on the maintenance of school facilities on the part of each SUBEB and LGEA overseeing the schools.

4) Techniques to treat the sludge from the toilet pits and to maintain the toilets and other school facilities will be extended to the people concerned as the work in question demands appropriate technical knowledge and skills.

5) The provision of a maintenance manual at each school will strengthen the maintenance system at each school. The system will also be strengthened by the distribution of the maintenance guidance manual to the SUBEBs and LGEAs.

(5) Methods to Check the Achievement Level of the Expected Outcomes

As methods to check and evaluate the achievement levels of the expected outcomes, the interview survey and questionnaire survey described below will be conducted immediately after the implementation of the soft component and also immediately after the completion of the Project.

- Questionnaire survey with pupils who will be the direct beneficiaries of the soft component
- Interview survey with principals, teachers and community leaders

(6) Activities (Inputs) Under the Soft Component

The activities described below will be conducted as components of the soft component to achieve the intended outcomes listed above.

1) Review and Modification of the Guidelines for the Implementation of the Soft Component

The guidelines in question which were originally prepared in the Phase 1 Project feature ① building maintenance activities, ② health and hygiene activities (use and cleaning of toilets, treatment of sludge and waste disposal method) and ③ collection, saving and management of the operation and maintenance charge. Although reasonable positive effects of the guidelines have been witnessed, it is true to say that the level of commitment to the guidelines has become weaker at some schools with the passing of time. The existing guidelines require review and modification to make their contents suitable for Kano State in order to rectify the present situation. These modified guidelines will form the basic framework and will require further review and modification through consultations with the relevant organizations in Kano State so that they are elaborated for continuous activities.

2) Explanation to Local Counterparts

Using the guidelines referred to in 1) above, the consultant will explain the targets, objectives, contents and schedule of the soft component of the Project to such local counterparts as the UBEC and Kanto SUBEB to ensure a precise understanding of these matters by the counterparts and also to facilitate the development of their sense of ownership regarding the maintenance activities of school facilities.

3) Establishment of Local Task Force

The appointment of facilitators to act as key persons for the implementation and extension of the soft component activities will be essential for the effective and efficient implementation of these activities. The active participation of the Kano SUBEB, which will be responsible for the monitoring of and guidance on maintenance work after the completion of the construction work, in the implementation of the soft component is the key to ensuring the continual progress of the said work. For this reason, a task force will be established around the Planning, Statistics and Research Section of the Kano SUBEB. This task force will consist of some 5 - 6 members, including the head of the Planning, Statistics and Research Section, a person responsible for facility maintenance at the Kano SUBEB, an educational statistics specialist at the Kano SUBEB, a representative of the LGEA which has jurisdiction for the model school and a school inspector.

4) Decision on the Model School and Implementation Schedule

The 30 target schools for the construction of new classrooms will be divided into

four blocks and a model school for maintenance activities will be selected in each block. Suitable schedule control will be applied to these model schools so that these schools can commence operation earlier than other schools.

5) Preparation of the Primary School Maintenance Manual

Through consultations with the task force, the principals of the model schools and community leaders, desirable ways to improve the maintenance of school facilities will be examined /analysed while stimulating their own awareness of the problems associated with maintenance. A participatory approach where the local task force modifies the manual to incorporate local ideas based on the model manual prepared by the consultant will be adopted to generate and enhance the sense of ownership among the Nigerian stakeholders. For this purpose, the consultant will provide guidance and comments, etc. throughout the draft manual preparation process of the task force. Moreover, an illustrated poster(s) will be produced to encourage understanding of the school maintenance manual and individual maintenance activities among pupils.

6) Implementation of Maintenance Activities at the Model Schools

Based on the above maintenance manual, teachers, pupils, PTA members and local community leaders will be approached/encouraged to actively implement maintenance activities to improve their own school.

7) Preparation and Implementation of Workshops

- The principals of the target schools near a model school and local community leaders will be invited to attend a workshop to be held at the model school to extend the maintenance activities at the model school to all of the target schools. These principals and local community leaders will personally study the reality of maintenance activities at the model school, undergo the relevant training and exchange opinions.
- These workshops will be organized by the Kano SUBEB and local facilitators will play an active role. A member of the task force will act as a moderator to assist the smooth progress of the workshops. The Japanese consultant will provide general supervision and guidance.
- The training menu, necessary training textbooks and tools, schedule and division of roles at the workshops will be decided in consultation with the task force.

- After the workshops, an evaluation meeting with the task force will be held and a workshop report will be prepared.

8) Preparation of Facility Maintenance Monitoring Manual for the SUBEB

- A manual will be prepared for the effective monitoring of the maintenance activities of the target schools. This work will be conducted while encouraging the self-help efforts of the Kano SUBEB.
- To start with, the consultant will review and revise the monitoring manual prepared in the Phase 1 Project.
- The consultant will discuss the revised monitoring manual with the local task force and will assist the latter to prepare the said manual on the latter's own initiative. The Japanese consultant will then evaluate the monitoring manual prepared by the task force and feed back its comments to the task force to finalise the monitoring manual.
- Each school will be requested to report the state of facility maintenance via the school inspector based on the finalised monitoring manual. The SUBEB will compile the individual reports to produce a general report and will submit this report to the JICA Nigeria Office once a year.

(7) Procurement Method for Soft Component Implementation Resources

The soft component will be implemented under the overall supervision and guidance of the Japanese consultant. Encouragement of the self-help efforts of the Kano SUBEB and LGEA will be essential to ensure smooth progress and effective as well as efficient monitoring thereafter. To be more precise, the head of the Planning, Statistics and Research Section of the Kano SUBEB, which is the counterpart for the Project, and others will be appointed as facilitators so that the contents, objectives and intended implementation method of the soft component are smoothly understood by all stakeholders, including staff members of the Kano SUBEB and LGEA, principals, teachers, community leaders, pupils and parents. A local task force will be formed with staff members of the Planning, Statistics and Research Section of the Kano SUBEB, LGEA staff member overseeing the model schools, school inspector and others (see 5.-(6)-3)).

(8) Soft Component Implementation Schedule

The soft component will prove to be more effective if it is implemented using the facilities newly constructed under the Project. For this reason, it will be implemented at a later stage of the project period.

Table 1　Technical Guidance Schedule

	FY 2010						FY 2011								Remarks
Calendar Month	10	11	12	1	2	3	4	5	6	7	8	9	10	11	
Aggregate Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Kano State (Four Areas)													(Japanese) 1.0 month (Local Recruit)		

(9) Products of the Soft Component

The soft component of the Project is anticipated to produce the following products.

- Revised Draft Soft Component Implementation Guidelines (Consultant)
- Soft Component Implementation Guidelines (Consultant, UBEC and SUBEB)
- Facility Maintenance Manual (each school)
- Facility Maintenance Monitoring and Guidance Manual (SUBEB)

(10) Obligations of the Implementing Body in Nigeria

- The Government of Nigeria will set up a local task force to assist the implementation of the soft component. This task force will be created around the Planning, Statistics and Research Section of the Kano SUBEB which will act as the counterpart for the soft component.
- At the time of orientation and workshop, a facilitator will be assigned from among the task force members to ensure the smooth progress of these events.
- The Kano SUBEB and UBEC will be responsible for smooth communication with and guidance for the 30 target schools in Kano State.
- The Kano SUBEB will invite the 30 target schools to the orientation and workshop to be held at the model schools.
- Prior to each workshop, the task force will prepare a primary school maintenance manual in a self-help manner in consultation with the consultant.
- At a later stage of the soft component implementation period, the task force will prepare a facility maintenance monitoring manual in a self-help manner in consultation with the consultant for its use by the Kano SUBEB.
- The Kano SUBEB will monitor the facility management in the post-soft component period and will compile an annual maintenance report for its submission to the JICA Nigeria Office.

Detailed Soft Component Implementation Schedule

No.	Activity	Implementation Period																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	Preparation of the Guidelines and Manual																														
2	Consultation with the Counterpart																														
3	Selection of the Model Schools																														
4	Maintenance Activity (Block A)																														
	Maintenance Activity (Block B)																														
	Maintenance Activity (Block C)																														
	Maintenance Activity (Block D)																														
5	Workshop																														
6	Evaluation Meeting																														

6. Other Relevant Data (Soil Investigation Data)

FIGURE: 3(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KUMBUGAWA PRY SCH.	DATE: 17/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: KARAYE, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.0	126	650	240
0.25	5	4.0	126	650	240
0.50	5	2.5	263	1350	500
0.75	5	3.5	200	1030	380
1.00	5	4.0	126	650	240
1.25	5	3.5	200	1030	380
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 3(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KUMBUGAWA PRY SCH.	DATE: 17/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: KARAYE, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	6.0	76	390	145
0.25	5	5.0	91	470	175
0.50	5	4.5	105	540	200
0.75	5	3.5	200	1030	380
1.00	5	4.0	126	650	240
1.25	5	3.0	210	1080	400
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 4(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: TUDUN KAYA PRY SCH.	DATE: 17/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: KARAYE, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	9.0	48	245	90
0.25	5	8.5	51	260	95
0.50	5	6.0	76	390	145
0.75	5	5.5	84	430	160
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 4(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: TUDUN KAYA PRY SCH.	DATE: 17/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: KARAYE, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	8.0	55	285	105
0.25	5	8.5	51	260	95
0.50	5	6.0	76	390	145
0.75	5	6.5	68	350	130
1.00	5	4.5	105	540	200
1.25	5	4.0	126	650	240
1.50	5	3.5	200	1030	380

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 5(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: YOLA Z/GARI PRY SCH.	DATE: 17/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	8.0	55	285	105
0.25	5	6.5	68	350	130
0.50	5	4.5	105	540	200
0.75	5	4.0	126	650	240
1.00	5	3.5	200	1030	380
1.25	5	2.0	284	1460	540
1.50	5	1.5	337	1730	640

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 5(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: YOLA Z/GARI PRY SCH.	DATE: 17/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	6.0	76	390	145
0.25	5	6.5	68	350	130
0.50	5	3.5	200	1030	380
0.75	5	4.0	126	650	240
1.00	5	3.5	200	1030	380
1.25	5	3.0	210	1080	400
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 6(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: BUREMAWA PRY SCH.	DATE: 19/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: KIRU, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.0	126	650	240
0.25	5	4.0	126	650	240
0.50	5	3.0	210	1080	400
0.75	5	3.5	200	1030	380
1.00	5	3.0	210	1080	400
1.25	5	2.5	263	1350	500
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 6(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: BUREMAWA PRY SCH.	DATE: 19/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: KIRU, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	7.5	58	300	110
0.25	5	4.0	126	650	240
0.50	5	3.0	210	1080	400
0.75	5	3.5	200	1030	380
1.00	5	3.0	210	1080	400
1.25	5	2.0	284	1460	540
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 7(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: CHINKOSO TUDU PRY SCH.	DATE: 19/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: MADOBI, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	12.5	29	150	55
0.25	5	10.0	37	190	70
0.50	5	8.0	55	285	105
0.75	5	6.5	68	350	130
1.00	5	4.5	105	540	200
1.25	5	4.0	126	650	240
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 7(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: CHINKOSO TUDU PRY SCH.	DATE: 19/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: MADOBI, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	7.5	58	300	110
0.25	5	8.0	55	285	105
0.50	5	8.0	55	285	105
0.75	5	6.5	68	350	130
1.00	5	5.0	91	470	175
1.25	5	3.5	200	1030	380
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 8(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KADANA PRY SCH.	DATE: 17/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: RAGO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	6.0	76	390	145
0.25	5	4.0	126	650	240
0.50	5	2.5	263	1350	500
0.75	5	2.0	200	1030	380
1.00	5	3.0	210	1080	400
1.25	5	3.0	210	1080	400
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 8(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KADANA PRY SCH.	DATE: 17/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: RAGO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.5	84	430	160
0.25	5	4.0	126	650	240
0.50	5	2.0	284	1460	540
0.75	5	2.0	284	1460	540
1.00	5	3.0	210	1080	400
1.25	5	3.0	210	1080	400
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 9(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: BALAN PRY SCH.	DATE: 17/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: KABO , KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.5	84	430	160
0.25	5	5.5	84	430	160
0.50	5	3.0	210	1080	400
0.75	5	3.5	200	1030	380
1.00	5	3.0	210	1080	400
1.25	5	2.5	263	1350	500
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 9(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: BALAN PRY SCH.	DATE: 17/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: KABO , KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.0	91	470	175
0.25	5	4.5	105	540	200
0.50	5	3.0	210	1080	400
0.75	5	3.5	200	1030	380
1.00	5	3.0	210	1080	400
1.25	5	3.5	200	1030	380
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: T/GARU PRY SCH.	DATE: 17/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: GWARZO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.5	105	540	200
0.25	5	4.0	126	650	240
0.50	5	3.0	210	1080	400
0.75	5	3.5	200	1030	380
1.00	5	3.0	210	1080	400
1.25	5	2.5	263	1350	500
1.50	5	1.5	337	1730	640

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 10(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: T/GARU PRY SCH.	DATE: 17/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: GWARZO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	3.5	200	1030	380
0.25	5	3.0	210	1080	400
0.50	5	3.0	210	1080	400
0.75	5	3.5	200	1030	380
1.00	5	5.5	84	430	160
1.25	5	2.5	263	1350	500
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 3(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: BICHI KANTI PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: BICHI, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.0	91	470	175
0.25	5	4.0	126	650	240
0.50	5	7.5	58	300	110
0.75	5	5.5	84	430	160
1.00	5	3.5	200	1030	380
1.25	5	3.0	210	1080	400
1.50	5	3.5	200	1030	380

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:_____

FIGURE: 3(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: BICHI KANTI PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: BICHI, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	8.5	51	260	95
0.25	5	7.0	63	325	120
0.50	5	6.5	68	350	130
0.75	5	6.5	68	350	130
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	2.5	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 4(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: BADUME S/ MODEL PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: BICHI, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	9.0	48	245	90
0.25	5	11.0	34	175	65
0.50	5	8.5	51	260	95
0.75	5	7.5	58	300	110
1.00	5	5.0	91	470	175
1.25	5	4.5	105	540	200
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^{0} degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 4(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: BADUME S/MODEL PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: BICHI, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.0	91	470	175
0.25	5	5.5	84	430	160
0.50	5	6.0	76	390	145
0.75	5	10.0	37	190	70
1.00	5	7.5	58	300	110
1.25	5	5.5	84	430	160
1.50	5	3.5	200	1030	380

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 5(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: DANBATTA KANTI PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: DAMBATA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	6.0	76	390	145
0.25	5	3.0	210	1080	400
0.50	5	5.5	84	430	160
0.75	5	10.0	37	190	70
1.00	5	7.5	58	300	110
1.25	5	4.5	105	540	200
1.50	5	4.0	126	650	240

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 5(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: DANBATTA KANTI PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: DAMBATA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	10.0	37	190	70
0.25	5	14.0	26	135	50
0.50	5	8.5	51	260	95
0.75	5	5.5	91	470	175
1.00	5	4.0	126	650	240
1.25	5	4.5	105	540	200
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 6(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: TUFAMFI PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: D/ TOFA , KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.5	84	430	160
0.25	5	4.0	126	650	240
0.50	5	4.0	126	650	240
0.75	5	4.0	126	650	240
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 6(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: TUMPARI PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: D/ TOFA , KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.0	91	470	175
0.25	5	5.0	91	470	175
0.50	5	4.0	126	650	240
0.75	5	2.5	263	1350	500
1.00	5	2.0	284	1460	540
1.25	5	2.5	263	1350	500
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 7(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: JALLI PRY SCH.	DATE: 17/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: D/ TOFA , KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.5	84	430	160
0.25	5	6.0	76	390	145
0.50	5	5.5	84	430	160
0.75	5	4.5	105	540	200
1.00	5	4.0	126	650	240
1.25	5	3.5	200	1030	380
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 7(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: JALLI PRY SCH.	DATE: 17/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: D/ TOFA , KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	7.0	63	325	120
0.25	5	5.5	84	430	160
0.50	5	5.5	84	430	160
0.75	5	5.0	91	470	175
1.00	5	4.0	126	650	240
1.25	5	3.0	210	1080	400
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^{0} degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 8(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KWA PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: D/TOFA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.5	105	540	200
0.25	5	4.0	126	650	240
0.50	5	5.0	91	470	175
0.75	5	3.0	210	1080	400
1.00	5	2.5	263	1350	500
1.25	5	2.0	284	1460	540
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:_____

FIGURE: 8(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KWA PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: D/TOFA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	9.5	43	220	80
0.25	5	8.0	55	285	105
0.50	5	6.0	76	390	145
0.75	5	6.5	68	350	130
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 9(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: NATSUGUNNE PRY SCH.	DATE: 17/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: FAGGE , KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	7.0	63	325	120
0.25	5	15.0	23	120	45
0.50	5	10.0	37	190	70
0.75	5	9.5	43	220	80
1.00	5	9.0	48	245	90
1.25	5	6.5	68	350	130
1.50	5	5.0	91	470	175

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:_____

FIGURE: 9(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: NATSUGUNNNE PRY SCH.	DATE: 17/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: FAGGE , KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	6.5	68	350	130
0.25	5	11.0	34	175	65
0.50	5	8.5	51	260	95
0.75	5	6.5	68	350	130
1.00	5	5.0	91	470	175
1.25	5	5.0	91	470	175
1.50	5	4.0	126	650	240

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 10(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: LAMB SCIENCE PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: TOFFA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	3.0	210	1080	400
0.25	5	4.0	126	650	240
0.50	5	3.0	210	1080	400
0.75	5	1.0	352	1810	670
1.00	5	2.0	284	1460	540
1.25	5	2.0	284	1460	540
1.50	5	1.5	337	1730	640

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 10(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: LAMB SCIENCE PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: TOFFA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.0	126	650	240
0.25	5	5.5	84	430	160
0.50	5	3.0	210	1080	400
0.75	5	3.0	210	1080	400
1.00	5	2.0	284	1460	540
1.25	5	2.5	263	1350	500
1.50	5	1.0	352	1810	670

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 3(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: AMARYAWA PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: GAYA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.0	126	650	240
0.25	5	6.0	76	390	145
0.50	5	5.0	91	470	175
0.75	5	3.5	200	1030	380
1.00	5	3.0	210	1080	400
1.25	5	2.5	263	1350	500
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 3(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: AMARYAWA PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: GAYA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	2.0	284	1460	540
0.25	5	7.5	58	300	110
0.50	5	5.0	91	470	175
0.75	5	4.5	105	540	200
1.00	5	3.0	210	1080	400
1.25	5	2.5	263	1350	500
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 4(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: INDABO PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: WUDIL, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.0	91	470	175
0.25	5	5.5	84	430	160
0.50	5	6.5	68	350	130
0.75	5	5.0	91	470	175
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 4(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: INDABO PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: WUDIL, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	8.5	51	260	95
0.25	5	7.0	63	325	120
0.50	5	5.5	84	430	160
0.75	5	4.0	126	650	240
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 5(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KWANKWASO PRY SCH.	DATE: 19/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: MADOBI, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	8.5	51	260	95
0.25	5	7.0	63	325	120
0.50	5	7.5	58	300	110
0.75	5	6.5	68	350	130
1.00	5	5.0	91	470	175
1.25	5	3.5	200	1030	380
1.50	5	3.5	200	1030	380

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 5(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KWANKWASO PRY SCH.	DATE: 19/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: MADOBI, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	10.0	37	190	70
0.25	5	11.0	34	175	65
0.50	5	7.5	58	300	110
0.75	5	6.5	68	350	130
1.00	5	5.0	91	470	175
1.25	5	4.0	126	650	240
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:_____

FIGURE: 6(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: ZAKIRAI YAMMA PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: GABASAWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.5	105	540	200
0.25	5	5.0	91	470	175
0.50	5	4.0	126	650	240
0.75	5	1.5	337	1730	640
1.00	5	1.5	337	1730	640
1.25	5	2.0	284	1460	540
1.50	5	1.0	352	1810	670

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 6(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: ZAKIRAI YAMMA PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: GABASAWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	3.5	210	1080	400
0.25	5	2.5	263	1350	500
0.50	5	1.5	337	1730	640
0.75	5	1.0	352	1810	670
1.00	5	0.5	378	1945	720
1.25	5	1.0	352	1810	670
1.50	5	0.5	378	1945	720

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 7(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: ZANGO PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: GEZAWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.5	105	540	200
0.25	5	4.5	105	540	200
0.50	5	3.5	200	1030	380
0.75	5	3.0	210	1080	400
1.00	5	2.0	284	1460	540
1.25	5	1.5	337	1730	640
1.50	5	1.0	352	1810	670

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 7(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: ZANGO PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: GEZAWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	3.5	200	1030	380
0.25	5	3.5	200	1030	380
0.50	5	1.0	352	1810	670
0.75	5	1.0	352	1810	670
1.00	5	0.5	378	1945	720
1.25	5	0.5	378	1945	720
1.50	5	0.5	378	1945	720

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 8(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: DANMADANHO PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: GEZAWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.0	91	470	175
0.25	5	3.5	200	1030	380
0.50	5	2.5	263	1350	500
0.75	5	3.5	200	1030	380
1.00	5	1.5	337	1730	640
1.25	5	1.0	352	1810	670
1.50	5	1.0	352	1810	670

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 8(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: DANMADANHO PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: GEZAWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	7.0	63	325	120
0.25	5	5.5	84	430	160
0.50	5	1.5	337	1730	640
0.75	5	2.0	284	1460	540
1.00	5	2.5	263	1350	500
1.25	5	2.5	263	1350	500
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 9(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KUMBOTSO PRY SCH.	DATE: 19/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: KUMBOTSO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	15.0	23	120	45
0.25	5	12.5	29	150	55
0.50	5	8.0	55	285	105
0.75	5	4.5	105	540	200
1.00	5	4.0	126	650	240
1.25	5	3.5	200	1030	380
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 9(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: KUMBOTSO PRY SCH.	DATE: 19/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: KUMBOTSO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	25.0	0	0	0
0.25	5	11.0	34	175	65
0.50	5	9.5	43	220	80
0.75	5	8.0	55	285	105
1.00	5	6.5	68	350	130
1.25	5	4.5	105	540	200
1.50	5	3.5	200	1030	380

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 10(a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: ALKALAWA PRY SCH.	DATE: 19/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: KURA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	12.5	29	150	55
0.25	5	11.0	34	175	65
0.50	5	8.5	51	260	95
0.75	5	8.0	55	285	105
1.00	5	5.5	84	430	160
1.25	5	3.5	200	1030	380
1.50	5	3.5	200	1030	380

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 10(b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: ALKALAWA PRY SCH.	DATE: 19/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: KURA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	20.0	0	0	0
0.25	5	11.0	34	175	65
0.50	5	8.5	51	260	95
0.75	5	7.0	63	325	120
1.00	5	5.5	84	430	160
1.25	5	3.5	200	1030	380
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 3 (a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: FASSI A. SAYAYSAYA PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: KIBIYE, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.5	105	540	200
0.25	5	4.0	126	650	240
0.50	5	3.0	210	1080	400
0.75	5	1.5	337	1730	640
1.00	5	2.0	284	1460	540
1.25	5	1.5	337	1730	640
1.50	5	1.0	352	1810	670

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 3 (b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: FASSI A. SAYAYSAYA PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: KIBIYA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.5	84	430	160
0.25	5	4.0	126	650	240
0.50	5	3.0	210	1080	400
0.75	5	2.5	263	1350	500
1.00	5	2.5	263	1350	500
1.25	5	1.0	352	1810	670
1.50	5	1.0	352	1810	670

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 4 (a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: RANO DAWAKI PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: RANO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	5.5	84	430	160
0.25	5	7.0	63	325	120
0.50	5	3.5	200	1030	380
0.75	5	3.5	200	1030	380
1.00	5	2.0	284	1460	540
1.25	5	1.5	337	1730	640
1.50	5	2.0	284	1460	540

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 4 (b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: RANO DAWAKI PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: RANO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	2.5	263	1350	500
0.25	5	2.0	284	1460	540
0.50	5	2.0	284	1460	540
0.75	5	1.5	337	1730	640
1.00	5	2.0	284	1460	540
1.25	5	3.0	210	1080	400
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 5 (a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: RURUM SCIENCE PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: RANO., KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	4.5	105	540	200
0.25	5	3.0	210	1080	400
0.50	5	1.5	337	1730	640
0.75	5	8.5	51	260	95
1.00	5	5.0	91	470	175
1.25	5	4.5	105	540	200
1.50	5	4.0	126	650	240

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 5 (b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: RURUM SCIENCE PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: RANO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	6.0	76	390	145
0.25	5	7.5	58	300	110
0.50	5	7.0	63	325	120
0.75	5	5.5	84	430	160
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 6 (a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: RUWAN KANYA PRY SCH.	DATE: 16/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: RANO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	6.5	68	350	130
0.25	5	7.0	63	325	120
0.50	5	3.0	210	1080	400
0.75	5	1.5	337	1730	640
1.00	5	2.0	284	1460	540
1.25	5	1.5	337	1730	640
1.50	5	1.5	337	1730	640

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 6 (b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: RUWAN KANYA PRY SCH.	DATE: 16/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: RANO, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	10.0	37	190	70
0.25	5	8.5	51	260	95
0.50	5	8.0	55	285	105
0.75	5	2.0	284	1460	540
1.00	5	3.0	210	1080	400
1.25	5	1.5	337	1730	640
1.50	5	1.5	337	1730	640

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: Emma

received By:

FIGURE: 7 (a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: DOGUWA PRY SCH.	DATE: 19/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: DOGUWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	11.0	34	175	65
0.25	5	9.5	43	220	80
0.50	5	7.0	63	325	120
0.75	5	5.0	91	470	175
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	2.5	263	1350	500

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 7 (b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: DOGUWA PRY SCH.	DATE: 19/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: DOGUWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	8.5	51	260	95
0.25	5	9.5	43	220	80
0.50	5	7.5	58	300	110
0.75	5	5.0	91	470	175
1.00	5	4.5	105	540	200
1.25	5	4.0	126	650	240
1.50	5	4.0	126	650	240

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 8 (a)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: TAGWAYE PRY SCH.	DATE: 19/02/2010	PROJECT # 1A
ARCHITECT/ENGINEER:	LOCATION: DOGUWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	9.5	43	220	80
0.25	5	8.0	55	285	105
0.50	5	8.0	55	285	105
0.75	5	5.0	91	470	175
1.00	5	5.5	84	430	160
1.25	5	4.5	105	540	200
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24'' driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By:

FIGURE: 8 (b)

DYNAMIC CONE PENETROMETER FOUNDATION REPORT

PROJECT NAME: TAGWAYE PRY SCH.	DATE: 19/02/2010	PROJECT # 1B
ARCHITECT/ENGINEER:	LOCATION: DOGUWA, KANO STATE	REPORT #
GENERAL CONTRACTOR: TAMOVIC NIGERIA LTD.		

DEPTH (m)	No of Blow	Cone penetration (ZC) (cm)	Penetration Resistance (QC) KN/m2	Ultimate bearing capacity (QU) KN/m2	Safe bearing capacity(QA) KN/m2
0.00	5	8.0	55	285	105
0.25	5	8.0	55	285	105
0.50	5	7.0	63	325	120
0.75	5	5.0	91	470	175
1.00	5	4.5	105	540	200
1.25	5	3.0	210	1080	400
1.50	5	3.0	210	1080	400

Dynamic Cone Penetrometer is an instrument consisting of a 8kg, hammer falling 24" driving a 20mm diameter rod, 60^0 degree conical tip

Remarks:

Reported By: EMMA

received By: