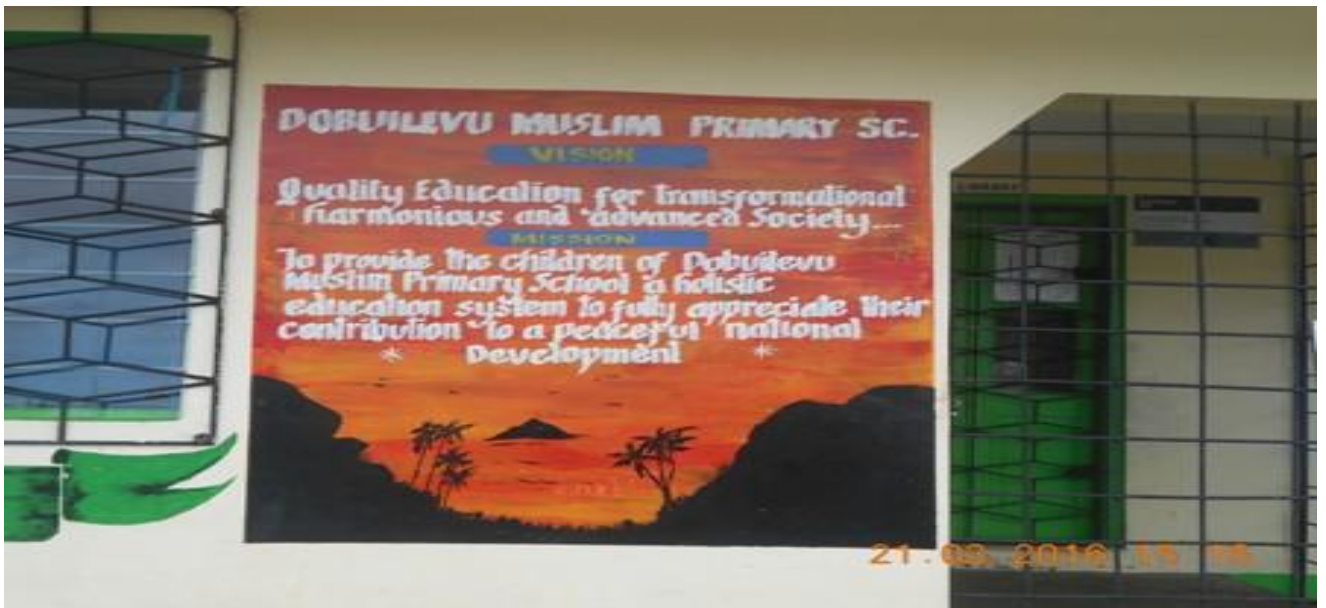




CHAND ENGINEERING CONSULTANTS LTD.

CONSULTING ENGINEERS & PROJECT MANAGERS

**CYCLONE WINSTON PRELIMINARY ASSESSMENT
SCHOOLS, HEALTH FACILITIES AND PUBLIC BUILDINGS
FOR
FIJI INSTITUTION OF ENGINEERS &
DEPARTMENT OF NATIONAL PLANNING
(MINISTRY OF FINANCE)**



NAME OF FACILITY: Doboilevu Muslim Primary School
TYPE: Primary School
LOCATION: Rakiraki
DATE OF ASSESSMENT: 21 March 2016

JOB NO: 16-108
GOVERNMENT FACILITY NUMBER: GFN-106

**RAPID ASSESSMENT TEMPLATE: CYCLONE WINSTON DAMAGED BUILDINGS
SCHOOLS, PUBLIC BUILDINGS & HEALTH FACILITIES**

INSPECTOR: AAC/ AAD/ RK
FIRM/COMPANY: CHAND ENGINEERING CONSULTANTS LIMITED

GENERAL INFORMATION

Building Name: Dobuilevu Muslim Primary School
Type: School Block
Location: Kings Highway, Rakiraki
No. of Buildings: 6
Ariel Plan Available: YES / NO

Extent of Damage Rating Description

1	Minor/Cosmetic/Water
2	Some Damage
3	Extensive but Repairable
4	Irreparable

Types of Buildings

- School Block
- Staff Quarters
- Toilet Block
- Utility Building (FEA, Services, etc)
- Divisional Hospital
- Sub-Divisional Hospital
- Health Centre
- Nursing Station
- Public Building or Facility

REPORT

Page No. : 1
Building No. : 1
Building Approx Age:
No. of Storeys: 1

EVALUATION

Type of Construction	Description	Build Quality	Damage	Extent of Damage Rating	Photo No.
Floor	reinforced concrete slab on ground	1 Good 2 Average 3 Poor	No visible damage	0	N/A
Foundations	Not Visible	1 Good 2 Average 3 Poor	No visible damage- concealed	0	N/A
Walls	150mm blockwall with part of RC structure with columns and beam for verandah roof support.	1 Good 2 Average 3 Poor	Cracks observed	2	1
Rafters	150x50 timber rafters with	1 Good 2 Average 3 Poor	Damaged	4	N/A
Purlins	75x50 timber purlins blown away from the school.	1 Good 2 Average 3 Poor	Damaged	4	N/A
Roof	corrugated roof cladding	1 Good 2 Average 3 Poor	25% of the roof damaged	4	2
Electrical	typical standard switches, GPO's and fluorescent tubelights and bulbs	1 Good 2 Average 3 Poor	No damage known- FEA power not available at the time of inspection	0	N/A
Hydraulics	None	1 Good 2 Average 3 Poor	N/A	N/A	N/A
Windows/Doors	louver windows on standard carriers typically for all windows. combination of timber doors with fixed glass T&G lined doors in T&G framing.	1 Good 2 Average 3 Poor	Doors have water damage Lourves shattered	2	N/A
Shutters	steel bars were observed on all glass openings.	1 Good 2 Average 3 Poor	No damage	0	N/A
Ceilings	Ply board ceiling typically throughout-partial collapse of ceiling due to water damage-painted	1 Good 2 Average 3 Poor	Water damage	1	N/A
Terraces/Verandah	typically concrete floor with RC columns and beam.	1 Good 2 Average 3 Poor	80% of the verandah roof beam damaged	4	3, 4, 5
Tiles/Floor Covering	ceramic tiles for the classrooms and concrete plaster for the corridoh	1 Good 2 Average 3 Poor	No damage		N/A
Gutters	Standard PVC gutters with proprietary PVC straps fixed to the outside of the gutter.	1 Good 2 Average 3 Poor	At least 50% guttering and down-pipes damaged	2	1,2
Downpipes	100mm PVC downpipes with PVC straps fixed to the columns at 3m crs.	1 Good 2 Average 3 Poor	At least 50% guttering and down-pipes damaged		1,2
Fascia Boards	250x30mm timber fascia board.	1 Good 2 Average 3 Poor	50% damage- verandah area of the roof blown out.		N/A
Furniture/Desks etc.		1 Good 2 Average 3 Poor			
Possible Intermediate Solution	Re-construct the verandah roof beam and totally new verandah roof in compliant to the NBCF with new roof trusses, purlins and new ceiling. Replace all broken glass panes and louver blades and repair with grout crack in wall. New guttering, downpipes, flashings, fascia boards.				
Possible Long Term Solution	N/A				

Damage Assessment (\$) \$120,000.00 Intermediate
Basis of Calculation Engineers Estimate-TBC (note can be QS assisted)

FEES ESTIMATE:

Design/Documentation: TBC
Tender/Approval: TBC
Inspection/End Construction: TBC

PHOTOS



Photo 1: Overall View of Building Frontage



Photo 2: View of Building Rear



Photo 3: Verendah Beam View



Photo 4: Beam and Column View



Photo 5: Column Crack View