

CYCLONE WINSTON PRELIMINARY ASSESSMENT SCHOOLS, HEALTH FACILITIES & PUBLIC BUILDINGS

FOR

**THE FIJI INSTITUTION OF ENGINEERS & DEPARTMENT OF
NATIONAL PLANNING (MINISTRY OF FINANCE)**



NAME OF FACILITY:	Tagore Memorial School
TYPE:	Primary School
LOCATION:	Varadoli, Ba
DATE OF ASSESSMENT:	22 March 2016
DATE OF REPORT:	06 April 2016
JOB NO:	16015
HLKJACOB REPORT NO:	25-S
HLKJACOB FACILITY NO:	49
GOVERNMENT FACILITY NO:	151

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

INSPECTOR: Naveen Ram, Abbas Nezam
FIRM/COMPANY: HLKJacob

Extent of Damage Rating Description

0	No Damage
1	Minor/Cosmetic/Water
2	Some Damage
3	Extensive but Repairable
4	Irreparable

GENERAL INFORMATION

Building Name: Tagore Memorial School
Location: Varadoli, Ba
No. of Buildings: 1
Ariel Plan Available: YES / NO

Types of Buildings

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

REPORT

Page No. : _____ 1
Building No. : _____ 1
Building Type: _____ School Block (Block A Classrooms)
Building Approx Age: _____ 20 Years
No. of Storeys: _____ 2
Building Dimensions (Approx.): _____ L wings: 25.4m L x 10m W x 7.51 H and 15.9m x 10m x 7.51 H
_____ Roof pitch approx. 21 degrees - Gable
Usability: _____ Yes: Full Use

EVALUATION

Type of Construction	Description	Build Quality			Damage	Extent of Damage Rating	Photo No.			
		1	2	3						
Foundations	Not visible	1	Good	2	Average	3	Poor	No visible	N/A	N/A
Floor	RC slab	1	Good	2	Average	3	Poor	No visible damage - concealed.	0	N/A
Tiles/Floor Covering	Ceramic tiles -Ground floor only	1	Good	2	Average	3	Poor	No damage	0	N/A
Walls	150 Masonry blockwall with timber partition walls on first floor	1	Good	2	Average	3	Poor	No visible damage	0	N/A
Windows/Doors	Louvre windows on standard carriers on timber framing typically for all windows. Generally solid core timber doors.	1	Good	2	Average	3	Poor	No visible damage	0	5
Shutters	2x2 mesh screens on ground floor only	1	Good	2	Average	3	Poor	No visible damage	3	5,7,8
Ceilings	Ceiling consist of masonite and ply-boards	1	Good	2	Average	3	Poor	4 sheets masonite and 1 sheet ply-board damaged. Water damaged ceiling of Boys convenience	2	6
Rafters	200UB at 3.65m ctrs- Limited visibility	1	Good	2	Average	3	Poor	No visible damage - Limited Visibility	0	N/A
Purlins	150 x 50mm timber purlins bolted to MS cleat with 2 - M12 bolts	1	Good	2	Average	3	Poor	No visible damage - Limited visibility	0	N/A
Roof Cladding	Trimdek metal profile cladding screwed at every crest	1	Good	2	Average	3	Poor	Minor cladding damage observed on ends and mid.	2	7
Terraces/Verandah	Typically concrete floor with RC/steel frame supporting roof structure	1	Good	2	Average	3	Poor	No visible damage	0	N/A
Gutters	Standard steel box gutters with proprietary strappings	1	Good	2	Average	3	Poor	Front gutters generally blown away.	3	7,8
Downpipes	100mm PVC downpipes with galvanized straps fixed to columns/walls.	1	Good	2	Average	3	Poor	75% of downpipes damaged	2	5,7,8
Fascia Boards/Flashings	240x40 mm timber fascia boards.	1	Good	2	Average	3	Poor	Approx. 15m of fascia boards damaged. Flashing damages observed.	3	4
Electrical	Typically standard switches, fans, GPO's and fluorescent tube lights and bulbs	1	Good	2	Average	3	Poor	No visible damage	0	N/A
Mechanical	N/A	1	Good	2	Average	3	Poor	N/A	N/A	N/A
Possible Intermediate Solutions	New gutter and downpipes and fascia boards for damaged areas with gutter strapping to all areas for adequate hold down. Also shutters to be provided. Roof flashing/fascia boards, down pipes to be repaired. New claddings to be provided selectively.									
Possible Long Term Solutions	Detailed investigations for roof framing recommended along to retrofit to a post disaster building. Much dependent upon detailed investigations by an Engineer.									

Damage Assessment (FJD \$ VEP) _____ 8,000.00 Intermediate
 Damage Assessment (FJD \$ VEP) _____ 30,000.00 Long Term
 Basis of Calculation _____ QS Cost Database & Engineers Estimate



GENERAL DAMAGE
SCHOOLS, PUBLIC BUILDINGS & HEALTH FACILITIES

INSPECTOR: Naveen Ram, Abbas Nezam, Bal Mudaliar
FIRM/COMPANY: HLKJacob

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1 FENCING / GATES / DRIVEWAY / RETAINING WALLS ETC (INCLUDE TYPE / LENGTH ETC)

50m chain link fence damaged. Estimate = \$ 5,000 for fence fixing.

2 WATER TANKS/METERS/PLUMBING

A 5000 L water tank/wash-tub area plumbing was damaged during the cyclone. Exposed plumbing had also been damaged. Estimated damages of approx. \$2,000.00.

3 POWER LINES / METERS / WIRING

No issues observed

4 OTHER ITEMS

Currently, all classes are running as normal but a detailed inspection is needed to make the building water tight and cyclone rated. Possible site services for long term to include back up water supply and generators for backup power supply - Estimate = \$150,000

TOTAL COST ESTIMATE:

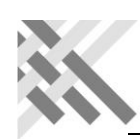
DESCRIPTION
BUILDING 1 - BLOCK A
GENERAL SITE
TOTAL:

INTERMEDIATE

DAMAGE COST (FJD \$ VEP)
8000.00
7000.00
\$15,000.00

LONG TERM

DAMAGE COST (FJD \$ VEP)
30000.00
157000.00
\$187,000.00



PHOTOS – BUILDING 1



Photo 1: Overall Front View of Building 1



Photo 2: End View of Building 1

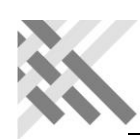


Photo 3: Side View of Building 1



Photo 4: Side view of Building 1

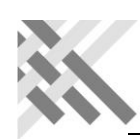


Photo 5: View of unshuttered windows/damaged plumbing



Photo 6: View of Interior Ceiling – Water Damage

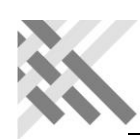


Photo 7: View of Roof – Damage to Cladding/Gutters and Flashings.



Photo 8: Blown out gutters

PHOTOS – GENERAL SITE



Photo 10: Showing Typical Chain-link Fence – Damaged Areas due to Fallen Tress & Debris



Photo 11: Rotomold Tank on Platform – Damage to plumbing



SITE PLAN & OTHER SKETCHES

