

# INFRASTRUCTURE ASSESSMENT AUDIT FOR SUVA – NAUSORI URBAN SCHOOLS

**AOG PRIMARY (2335)** 

**SUMMARY REPORT** 





## INFRASTRUCTURE ASSESSMENT FOR (AOG PRIMARY SCHOOL)



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## 1) INSPECTION SUMMARY

School Inspection Summary					
School name:	AOG PRIMARY SCHOOL				
Overall condition state:	POOR				
Key recommendations:					

- Key recommendations:
- Overcrowding 13 new classrooms required based on FNBC standards
- Overcrowding 5 new classrooms required based on recommended sizing (1.5m²)
- Accessibility -All buildings require accessibility ramps, accessible doorways
- Disaster resilience Windows to include cyclone shutters and roof cladding fastened with Cyclone roofing screws.

#### Comments:

Major defects were noted as follows:

- Damaged ceiling
- Cracks on walls
- Missing ramps (All buildings)
- Inadequate stairway width. (All buildings)
- Girls' toilet cubicles in poor condition.
- Dented and dislodged handrails.
- Roof cladding, gutter and roofing nails.





PROJECT NAME: PROJECT NUMBER: SCHOOL NAME: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

22403058

AOG PRIAMRY SCHOOL



School type:	Primary	<b>✓</b>	Secondary		Year levels	1,2,3,4,5,6,7,8
School address:	Laucala B	each state Nasin	u Velau Drive Kin	oya.		
School enrolment and staff figures	No. of Students (Male)	No. of Students (Female)	Disability	Te (M	achers ale)	No. of Teachers (Female)
	595	501	2	13	3	13
School building arrangement		TOTAL NUMBER OF BUILDINGS: 4 B3 – 1 STOREYS / <b>B2</b> – 1 STORYS / <b>B1</b> – SINGLE STOREYS / <b>B4</b> – 2 STOREYS				
Local government area:	VELAU DF	RIVE KINOYA SU	JVA			
Date of inspection:	07 <sup>™</sup> JUNE	, 2024				
Inspection team:	SHANEEL YASH VIN	ANASEINI LEDUA (AL) SHANEEL PRASAD (SP) YASH VINEET MUDALIAR (YM) DURGESH PAL (DP)				
Data collection methods	Visual insp	pection	✓	Onsite r	neasure	ment <
	Interviews	with school staff	✓	Drone /	aerial im	agery <
	Survey for	m	✓	Desktop	researc	h 🗸
	Other:					
Assumptions:	NONE	NONE				
Limitations:	UNAVAILA	UNAVAILABILITY OF ALL SCHOOL DOCUMENTS SUCH AS BOUNDARY AREA.				

## 2) ASSESSMENT OF OVERCROWDING

An assessment for overcrowding was undertaken based on FNBC standards and 2024 enrolment data. The table below summarises the data collected through visual inspection and interrogation of enrolment data and compares this against the FNBC standard student to classroom size ratio of 2 m<sup>2</sup> per student.

Year	Stream	Number of students	Current number of classrooms	Number of extra classrooms required based on FNBC on 2024 data
1	101	40	2	1
	102	37		'
	201	37		
2	202	42	3	1
	203	45		
	301	35		
3	302	40	3	1
	303	39		
	401	41		
4	402	44	3	1
	403	44		
	501	45		
5	502	46	3	0
	503	44		
	601	50	2	1
6	602	48	3	1
	603	48		

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PROJECT NUMBER: 22403058
SCHOOL NAME: 406 BBLACE



	701	38		
7	702	39	4	0
	703	41		
	704	38		
	801	44		
	802	45		0
8	803	44	4	
	804	48		

## 3) **EXISTING INFRASTRUCTURE CONDITIONS**

Given the outlined procedure, the following observations were made:

Block Code	Length (m)	Width (m)	Height (m)	No. of Levels	Туре	Room List
С	25.34	9.54	2.6	1	Timber floor joist and bearer with cladding on timber framed roof structure	- <b>Ground Floor</b> – 4x classrooms 1x special room and 1 x Teachers room
В	73.0	7.0	2.6	1	Concrete with cladding on timber framed roof structure	- Ground Floor – 8 x classrooms
A	65.7	7.4	2.6	1	Concrete with cladding on timber and steel framed roof structure	- Ground Floor – 7 x classrooms 1x Admin 1x canteen 1xAblution Block 1 x sick bay and 1x Library 4x Toilet Bay for boys and 7 bay for girls
D	27.9	10.5	6.8	2	Concrete with cladding on timber framed roof structure	- Ground Floor – 3x Classrooms - Top Floor – 3x Classrooms

NOTE: Toilets mentioned refers to a set of cubicles.

## **Summary Table for Classrooms**

This table provides a quick overview of the assessment findings, helping to identify areas that need immediate attention and those that are in good condition. The following criteria was used:

- Good No additional works / intervention required
- Fair Remedial works required
- Poor Demolition and replace with new

Assessment Area	Criteria	Conditions
Structural Integrity	Walls, ceiling, floor, foundation and roofs	Good
General upkeep	Exterior, interior, furniture and fixtures	Poor
Safety compliance	Fire safety, electrical safety,	Fair
Disability	Accessibility	Poor
Ventilation and lighting	Ventilations, Natural Lighting, Artificial	Fair
	Lighting.	

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SCHOOL NAME: AOG PRIAMRY SCHOOL



### **Observations on Structural Elements**

- > Walls and Ceiling -There were no signs of wear and tear on walls. The walls and ceiling were well painted.
- Floors and Foundation the floor and foundation for the entire school is found to be stable. There were no visible or sign of cracks or uneven surface. However, the floor is mostly covered with titles.
- **Roofs** the school reported that there are no leaks. It was found that roof materials are in good condition. However, some roof cladding and fastenings are partially rusted and requires upgrading works.
- ➤ Windows some missing window louvre blades were recorded at various buildings
- **Cyclone** minor roof upgrading works required to increase cyclone resilient capacity of the structures.

## **Existing Conditions of Building and Maintenance**

- **Exterior** the building is in fair condition as the wall, beam, column, window seal, doors, eaves, fascia boards and gutters are intact and coated with paint. The school executes periodical maintenance.
- > Interior the building is in fair condition as the walls, beams, columns windows, doors and ceiling are intact and coated with paint. The school executes periodical maintenance. The classrooms were found to be clean with proper waste disposal.
- Furniture and Fixtures the classrooms and offices have adequate furniture and fixtures that do not impede on the function of the buildings.

## Safety and compliance with standards

- Fire Safety the school does not possess adequate fire safety mechanisms. Present fire Extinguishers need maintenance and commissioning. No fire hydrants and alarm systems were found. The school has Emergency exit plan and designated assembly area provisioned.
- ➤ **Electrical Safety** The school is connected to EFL Grid. The school has surface wiring with no fault outlets. All electrical systems are measured to be safe.
- > Accessibility the school does not meet disability accessibility standards. The school does not have facilities such as ramps, handrails and accessible restrooms.

## **Lighting and Ventilation**

SCHOOL NAME:

- Ventilation HVAC system (Heating, Ventilation, and Air Conditioning) is centrally located in the school, in particular, offices and Computer Labs.
- Natural Lighting there are adequate number of windows installed in classrooms, that are regularly cleaned to allow natural light to enter into classrooms unobstructed.
- > Artificial Lighting it was found that all light fixtures are working and provides adequate illumination.

## 4) WATER SANITATION HYGIENE (WASH) FACILITIES

## **Condition of Toilets and Washrooms**

The facilities have some minor defects such as:

- The cubicle doors were damaged.
- Some toilet seat pans were missing.
- Rust was found on the door hinges and steel connectors of the PVC pipe outlets in the toilet system.
- The floor and walls had damaged and missing tiles.

The WASH facilities were unclean and lacked maintenance.

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AGG PRIAMRY SCHOOL



TOILET CUBICLE(S)		No. of Cubicles		Toilet Ratio (1 cubicle: students)		Compliance of Student to Toilet Cubicle Ratio (FNBC).	
Building Index	Used by Years	Female	Male	Female	Male	Female Requirement (1:20) Extra Toilets?	Male Requirement (1:30) Extra Toilets?
B5	ALL year	23	22	22	28	0	0

HAND BASINS IN THE TOILET		No. of Hand Basins		Handbasin Ratio 1:		Compliance of Student to Hand Basin Ratio (FNBC).	
Building Index	Used by Years	Female	Male	Female	Male	Female Requirement (1:60) Extra Handbasins?	Male Requirement (1:60) Extra Handbasins?
B1,B2,B3, B4	All years	8	3	8	3	N/A	N/A

GENERAL OUTDOOR TAPS		No. of General Outdoor Taps	Outdoor Taps Ratio 1:	Compliance of Student to Outdoor Taps Ratio Requirement (1:60) (FNBC) Does it require additional hand basins?	
Building Index	Used by Years				
B1,B2,B3,B4	All years	52	22	0	

## 5) DISASTER RESILIENCE ASSESSMENT

This infrastructure condition assessment aims to evaluate the architectural, structural, and non-structural features of the school to ensure it is resilient to natural disasters and provides a safe learning environment for students. The assessment also identifies areas for improvement and highlights the measures already in place to enhance overall resilience. FNBC 1990 and basic loading, wind and seismic AS/NZS codes typical details were utilized during and after inspection.

### Architectural

- Cyclonic Roof: The school has a cyclonic roof designed to withstand strong winds and seismic activity. However, replacement with new roof cladding and roofing screws is needed.
- Central Location: The school is centrally located, allowing easy access to main streets and relief services.

### **Structural**

- Material Quality: The school buildings are constructed using reinforced concrete and follow acceptable engineering design principles.
- Structural Integrity: Buildings have demonstrated the capability to withstand and recover from natural disasters like earthquakes, category 3 cyclones, and floods.

## **Non-Structural**

- Disaster Preparedness: Implementation of disaster evacuation plans, emergency exit routes, and safety protocols.
- Fire Safety: Equipped with a fire alarm system and strategically placed fire extinguishers to mitigate fire-related risks.

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## 6) ACCESSIBILITY ASSESSMENT

## 1. Compliance with Accessibility Standards:

Educational facilities did not meet accessibility standards, such as the Fiji Disable People Federation Access Audit Tool 1.0. This toolkit covers aspects like ramps, door widths, signage, and accessible routes, also the noncompliance extends beyond physical structures to digital accessibility.

### 2. Facilities for Students with Disabilities:

- Classrooms did not have adjustable seating arrangements, clear sightlines, and adequate space for mobility aids also including accessible desks and adjustable podiums.
- Laboratories are not able to accommodate students with various disabilities with the absence of adjustable lab benches, accessible sinks, and clear pathways.
- Libraries require accessible shelving, reading stations, and assistive technology (such as screen readers) to enhance library usability.
- Restrooms (WASH facilities) we're not wheelchair-accessible or have grab bars and sinks at an appropriate height.
- Common Areas: the cafeterias and outdoor spaces we're not designed inclusively. Benches, seating areas, and a few pathways are not able to accommodate everyone.

## 3. Access to Classrooms, WASH Facilities, and Common Areas:

- Classrooms do not have wide doorways and ramps to ensure access to classrooms. Additionally, acoustics are not considered for students with hearing impairments.
- WASH Facilities do not have accessible restrooms with proper signage and a clear pathway to the wash facilities.
- Common Areas like corridors, courtyards, and gathering spaces are not barrier-free and are without proper lighting and contrasting floor materials to aid navigation.

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## 7) **SUMMARY OF FINDINGS**

The following summarizes the individual characteristics assessed during the Suva-Nausori school audit for AOG Primary school:

Categories of Assessment	Existing Condition / State	Required as per Standards	Gaps Observed
Existing Infrastructure Condition	- Structural Integrity – Columns, slabs, beams, rafters, purlins of adequate size General upkeep – Minor irregular maintenance Safety compliance- handrails where necessary Disability- no consideration when constructed Ventilation and lighting – damaged and missing lights at some sections of buildings.	- Structural Integrity – Columns, slabs, beams, rafters, purlins sizes to follow FNBC 1990 General upkeep –routine check-up as per MOE policies with major defects requiring immediate intervention Safety compliance- handrails, extra doors and signage where necessary Disability- to comply with FDPF Disability audit tool - Ventilation and lighting – adequate windows and doors required as per FNBC 1990.	- Structural Integrity – Columns, slabs, beams, rafters, purlins sizes to follow FNBC 1990 General upkeep –requires immediate intervention to major defects Safety compliance- safety handrails were only present in suspended floors while ground floor rails beside drain had missing rails (not fully safety compliant). FDPF requires signage which was absent from the school Disability- not fully compliant with FDPF Disability audit tool - Ventilation and lighting – limitations in the count of windows and lightings compared to required FNBC.
Assessment of Overcrowding	- The classrooms are accommodating an average of 1096/25 classrooms of 44 students.	- FNBC 1990 requires classroom occupancy to have 2m² per person. Based on that, the required roll per classroom was calculated.	<ul> <li>- 15/25 classrooms were accommodating more roll than required.</li> <li>- Given the recommended sizing (1.5m²), about 5extra classrooms are required to address overcrowding in school.</li> </ul>
Water Sanitation Hygiene (WASH) facilities	Toilets (students: Cubicle) - Boys – 22:1 - Girls – 23:1  Taps (students: tap) - Students – 52:22  - Menstrual Hygiene was present in every female washroom block	Toilets Ratio (students: Cubicle) - Boys – 28:1 - Girls – 22:1 Taps Ratio (students: tap) - Students – 52:1 (22 taps) Please note: Above number of cubicles and taps are respective of 2024 enrolment numbers. Due to variation of ratio with student population in FNBC, the initial ratio is referred ONLY for reporting Menstrual Hygiene to be present in every female washroom block	- Boys toilet ratio was in par with the FNBC 1990 ratio. This may hinder later on with growing population The girls toilet ratio exceeded the FNBC requirement indicating not enough toilet cubicles are in the school. Given the roll of girls, a total of No extra cubicles is required - The tap ratio was below the FNBC requirement indicating extra taps are in the school school require maintenance of rusting pipes and algae build-up in WASH facilities.
Disaster Resilience Assessment	<ul> <li>columns, beams, slabs had hairline cracks.</li> <li>All roof had truss roof frames.</li> <li>The windows only have burglar shutters at some sections.</li> <li>Roof cladding is rusted - roofing nails show rusting.</li> </ul>	Fiji Building Code 1990. Requirement is that roof cladding be free of rust and fastened securely with type 17 cyclonic screws with neoprene washers. Additionally, cyclone brackets to be fixed on every window frame.	Rusting of cladding contradicts to the cyclone certification requirement requiring replacement.     Absence of cyclone brackets are not acceptable as per the cyclone certification.
Accessibility Assessment	-Handrails partially damaged in corridors Classrooms and labs have typical door size of 0.8 – 0.9m width Stairway – average 0.9m width.	The following are requirements from Fiji Disabled People's Federation Access Audit Tool - Ramps – required wherever elevation with minimum 1:8 maximum 1:20 - Walkway clearance Handrails to be 0.76m to 0.9m.	The following facilities are missing.  - Ramps and elevators for vertical access  - Wide doorways and clear pathways  - Proper signage  - Wheelchair-accessible restrooms  - Grab bars  - Proper signage



	- Doors and Door size – minimum	- Inclusive seating areas and pathways
	0.9m.	- Proper lighting
	- Clearance required of 1.2m and tread	- Contrasting floor materials
	width of minimum 310mm. (National	_
	Building Code Table	
	D2.1)	

## 8) **RECOMMENDATIONS**

- In order to comply with the FNBC, the school will require the following:
  - O Classrooms: An additional 13 new classrooms for students in years 1-8. This expansion aims to accommodate the growing number of students and provide them with an enhanced learning environment.
- WASH Facilities: No additional cubicles for girls is required, equipped with up-to-date WASH facilities (handbasins), catering particularly to the needs of female students. These new facilities are essential to ensure hygiene and comfort. Additionally, some consideration could also be given to the boys' toilet cubicles as the ratio is in par with the FNBC ratio. The exact number could be discussed upon further analysis.

Weekly routine maintenance work and daily clean-up directive from MOE is also a critical component of the plan which includes:

- Roof repairs due to rusting of cladding, roofing nails, gutter and gutter straps.
- Plumbing fixes due to algae build up.
- New paint application on rails and walls

These maintenance activities are designed to address existing wear and tear and to ensure that the school buildings remain in good condition. It is recommended that maintenance be carried out at regular intervals, ideally every 12 months, to prevent deterioration and to maintain a safe and functional environment.

Accessibility: Prioritize building accessibility features, such as ramps and handrails, to ensure compliance with standards. These features are vital for providing all students, including those with disabilities, with equal access to the school's facilities.

## 9) COMPLIANCE

Upon inspecting AOG Primary School, the following conclusions were drawn:

- ➤ **MEHA Compliance**: Compliant
- **WASH Facilities:** The school has ample taps. Additional 4 girls toilet cubicles required to comply with FNBC 1990.
- **Land Availability:** There is sufficient land for additional blocks behind AT, B2 and B3B.
- > NFA Compliance: Compliant with NFA basic guidelines but does not have NFA certification.
- **WAF Compliance:** Adequate water supply, but no backup system for water cuts.
- FNBC Compliance: The school is not fully compliant with the occupancy requirements as well as the category 5 cyclone standards based on the windows and roofing requirements.
- > NDMO Compliance: Targeting NFA and NBC compliance for safety.
- **EFL Compliance:** Assumed to be compliant with EFL standards.
- > DISABILITY Accessibility: non-compliant

## 10) APPENDIX

Appendix A – AOG Primary Site Inspection Report

Appendix B – Excel Scoring Sheet

Appendix C – Land Available for Expansion

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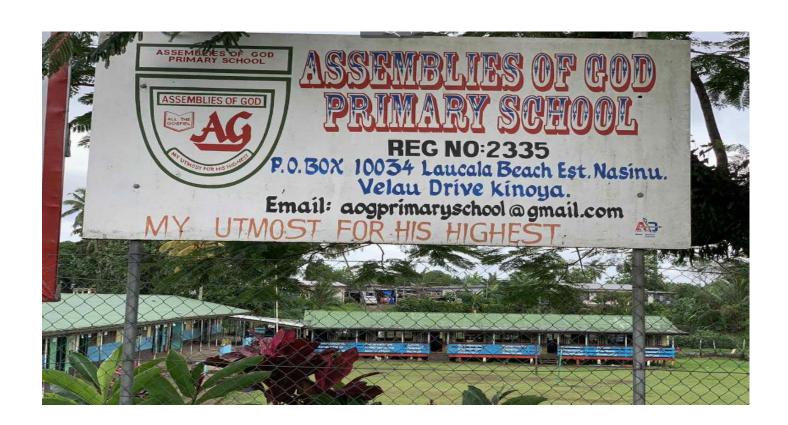
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## Appendix A - Site Inspection Report



## INFRASTRUCTURE ASSESSMENT AUDIT FOR SUVA – NAUSORI URBAN SCHOOL

## ASSEMBLIES OF GOD PRIMARY SCHOOL (REG 2335) SITE INSPECTION REPORT







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List of Abbreviations									
NRWM	NRW Macallan (Fiji) Pte Ltd								
MOE	Ministry of Education								
TT	Tetra Tech International Development Pty Ltd								
DFAT	Department of Foreign Affairs and Trade (Australia)								
FEG	Free Education Grant								
OHS	Occupational Health and Safety								
NFA	National Fire Authority								
WAF	Water Authority of Fiji								
NBC	National Building Code								
NDMO	National Disaster Management Office								
EFL	Energy Fiji Limited								



## 1) SCHOOL BACKGROUND

AOG School opened its doors for classes in 1962. Rev Lawrence R Larson who came to Fiji IN 1960 and served as pastor of Assemblies of God was instrumental in the construction of the school. He was the first chairman of the board of Governs until Rev Ralp Elmore took over. Currently the school Education Boards which is nominated by the Assemblies of God church mangers both the primary school and High School.

The school Vision is to promote quality education to those natures innovative and lifelong learners through an empowered system for a sustainable future.

The school Mission with a holistic and empowering educational system that enables all children to be independent, responsible and critical thinkers with innovative minds to societies needs and enrich the nation's future.

The school will educate the public of Assemblies of God Primary school to:

- -Know God as their Creator and redeemer
- -Know themselves as individuals and as socialized being.
- -Gain Knowledge and understanding in the highest order.
- Be creative and social oriented and contributor in society.

School Motto: My Utmost to his Highest.



## **Table 1: SCHOOL DETAILS**

NAME OF SCHOOL	ASSEMBLIES OF GOD PRIMARY SCHOOL
SCHOOL REGISTRATION NUMBER	2335
SCHOOL LOCATION	LAUCALA BEACH ESTATE NASINU VELAU DRIVE KINOYA.
SCHOOL TYPE	PRIMARY SCHOOL
FEEDER SCHOOL	NO
DATE OF INSPECTION	06 <sup>TH</sup> JUNE,2024.
MILESTONE	6/22 Schools
INSPECTED BY (TEAM 1)	ANASEINI LEDUA (AL)
	SHANEEL PRASAD (SP)
	DURGESH PAL (DP)
	YASH VINEET MUDALIAR (YM)

## **Table 2: SCHOOL ENROLMENT FIGURES**

Year of	Number of Students			Students	Number of Teachers			
Enrolment	Male	Female	Total	with Disability	Male	Female	Total	Comments
2024	595	501	1096	2			26	Classroom are overcrowded
2023	563	500	1063	1	-		26	Student to teacher has an
2022	531	490	1021	1	-	-	26	average ratio of 44:1
2021	581	350	931	N/A	-	-	26	Wash Ratio 18:1
2020	524	480	1004	N/A	-	-	26	
2019	591	500	1091	N/A	-	-	26	



## Table 3: 2024 CLASSROOM ENROLLMENT DETAILS (ONLY NOTE DOWN CLASSROOMS)

GRADE	CLASS	TOTAL	NUMBER OF	DIMENS	IONS (m)	ACCESS V	VAY COUNT	OVERCROWDING
	NUMBER	STUDENT	TEACHERS	LENGTH	WIDTH	NO. OF DOORS	NO. OF WINDOWS	
1	101	50	1	6.40	6.70	2	14	⊠YES □NO
	102	46	1	6.26	7.40	2	12	⊠YES □NO
2	201	44	1	6.26	7.40	2	12	⊠YES □NO
	202	43	1	6.26	7.40	2	12	⊠YES □NO
	203	44	1	6.26	7.40	2	12	⊠YES □NO
3	301	35	1	5.80	7.40	2	12	⊠YES □NO
	302	40	1	5.80	7.40	2	12	⊠YES □NO
	303	39	1	5.80	6.70	1	12	⊠YES □NO
4	401	41	1	7.80	5.70	1	14	⊠YES □NO
	402	44	1	7.80	5.70	1	14	⊠YES □NO
	403	44	1	7.80	5.70	1	14	⊠YES □NO
5	501	45	1	8.20	7.36	1	17	⊠YES □NO
	502	46	1	9.01	8.02	1	17	□YES ⊠NO
	503	44	1	9.01	8.02	2	17	□YES ⊠NO
6	601	50	1	8.20	7.36	1	14	⊠YES □NO
	602	48	1	8.20	7.36	1	14	⊠YES □NO
	603	48	1	8.20	736	1	14	⊠YES □NO
7	701	38	1	8.20	7.36	1	14	□YES ⊠NO
	702	39	1	8.20	7.36	1	14	□YES ⊠NO
	703	41	1	8.20	7.36	1	14	□YES ⊠NO
	704	38	1	8.35	7.36	1	14	□YES ⊠NO
8	801	44	1	9.10	8.01	1	17	□YES ⊠NO
	802	45	1	9.10	8.01	1	17	□YES ⊠NO
	803	44	1	9.10	8.01	1	17	□YES ⊠NO
	804	48	1	9.00	8.01	1	17	□YES ⊠NO



## 2) SCHOOL SITE PLAN (DRONE IMAGERY OF SCHOOL)



LEGEND									
B#	BUIDLINGS	DR#	PONDS/CREEKS/DRAINAGE						
PG#	PLAYGROUND	H#	HOSTELS						
WC#	TOILETS	ST#	STAFF QUARTERS						
T#	TAP / WASH AREA	F#	DINING/FOOD AREA						
WS#	WATER STORAGE FACILITY	EFL#	EFL POSTS/ JUNCTION BOX						
SEP#	SEPTIC TANK	CP	CAR PARK						
LA#	LAND AVAILABILITY	WW#	WALKWAY						

PROJECT NAME: PROJECT NUMBER:

INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

22403058

SCHOOL NAME: ASSEMBLIES OF GOD PRIMARY SCHOOL



## 3) VISUAL INSPECTION RESULTS

### a) EXISTING BUILDING INFORMATION

Building Index Block C		Block C					Year built:Age:				
Type:	Single storey timber building with gable roof. Consists of:  > Ground Floor – 3x classrooms 1x Special Room and 1x teacher's washroom.  No. of Levels:1										
Dimensions Length (m): 25.35 Width (m): 9.54 Height (m): 2.6m											
				E	xisting State	of Building					
REF. No.	Building (	Component	Good <sup>1</sup>	Fair <sup>2</sup>	Poor <sup>3</sup>	Structure Type <sup>4</sup>	Comments				
1	Roof Linin	g			✓	Corrugated Roofing iron	Rusted at some sections.				
2	Roof Struc	cture			✓	Timber	Structure was inaccessible due to absence of manhole				
3	Walls				✓	Timber	Partially damaged on the exterior				
4	Columns				✓	Timber	Damaged timb	er column			
5	Beams				✓	Timber	Column to colu	ımn beam deteriorating			
6	Floor				✓	Timber	Deteriorating ti	mber floor damaged at sections			
7	Handrails				✓	Timber	Damaged and tear and warps	paint peeling off have wear and s.			
8	Walkway(	s)		✓		Timber	Bend when wa floor joist and b	llking indicating damaged missing bearers,			
9	Services -	- water supply	✓			WAF	Adequate supp	Adequate supply with backup tank for washroom			
10	Available tuse	aps for general	<b>√</b>				# Of taps 6	Student – tap ratio = #: 1			
11	Services -	- electricity		✓		EFL	Adequate supp	oly/wires exposed/damaged lights			
12	Services -	- communication	✓				Adequate inter	net connections.			

## **Comments**

13

## > Visual defects

(internet)

Drainage

- Ramp provided for disability student from year 2023/2022.
- Roof corrugated iron rust at some sections.
- Guttering missing, dented and have algae build up.
- Downpipes have algae build up with only half length in dimensions
- > Timber walkway panels have wear and tear, wraps/bends when walking indicating damaged/missing floor joist and bearer.
- > Electrical light, fans and power switches are missing, damaged and exposed.
- No drainage was observed. Water from guttering flowing down to earth.
- > The paints on the walls were peeled off in some sections.
- Window shutters are present in almost all windows in administration section used for safety purpose only. Not compliant to cyclone certification. Some sections showed corrosion.
- Fascia board shows water damage (rotting) at some sections.

PROJECT NAME: PROJECT NUMBER:

INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

22403058

SCHOOL NAME: ASSEMBLIES OF GOD PRIMARY SCHOOL

Damaged drains/missing drains

<sup>&</sup>lt;sup>1</sup> Good - No additional works / intervention required

 $<sup>^{\</sup>rm 2}\,\mbox{Fair}$  - Remedial works required – min CAT 3 standard

<sup>&</sup>lt;sup>3</sup> Poor - Demolition and replace with new - min CAT 4 standard

<sup>&</sup>lt;sup>4</sup> Type of structure - Timber/concrete/steel

## INFRASTRUCTURE ASSESSMENT FOR (ASSEMBLIES OF GOD PRIMARY SCHOOL)



- Walkway ceiling plyboard showed tear and water damage.
- > Adequate ventilation is in all levels of the building.
- Staff Toilets are nearly maintained with adequate soap, handbasin and bins.

PROJECT NAME: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS
PROJECT NUMBER: 22403058
SCHOOL NAME: ASSEMBLIES OF GOD PRIMARY SCHOOL



## b) EXISTING BUILDING INFORMATION

**Building Index Block B** Year built: ..... Age ...... Single storey Gable building with gable roof. Consists of: 8x Classrooms No. of Levels: 1 Type:

**Dimensions** Length (m): 73.0 Width (m): 7.3 Height (m): 2.6 (upto eaves)

## **Existing State of Building**

	Existing state of building									
REF. No.	Building Component	Good <sup>5</sup>	Fair <sup>6</sup>	Poor <sup>7</sup>	Structure Type <sup>8</sup>	Comments				
1	Roof Lining			✓	Corrugated	Rusted at some	sections.			
2	Roof Structure			✓	Timber	Inadequate timber structure connection				
3	Walls		<b>√</b>		Timber/ Concrete	Partially damaged on the exterior and interior				
4	Columns		<b>√</b>		Steel	Damaged timber column shows deteriorating and damages.				
5	Beams		✓		Timber	Column to column beam deteriorating				
6	Floor		✓		Concrete	Concrete cracks on floor				
7	Handrails			✓	Timber	Shows signs of damaged inadequate connections				
8	Walkway(s)		✓		Concrete	Severe concrete	e cracks			
9	Services – water supply	✓			WAF	Adequate suppl	y with backup tank for washroom			
10	Available taps for general use	<b>√</b>				# Of taps 30	Student – tap ratio = #:			
11	Services – electricity	✓				Adequate supply/wires exposed/damaged lights				
12	Services – communication (internet)	✓				Adequate internet connections.				
13	Drainage		✓			Damaged drains	s/missing drains			

## **Comments**

## Overcrowding

## Dimensions of each classroom, labs

### Visual defects

- Fascia board damaged at sections.
- Corrugated roofing iron severely rusted at various sections.
- Valley gutters damaged and covered.
- > Eave's batten was broken at some sections. Birds' nests were observed inside the eaves batten at various places.
- Classroom ceilings have holes on the plyboards.
- Internal walls had wooden partitions that displayed damages
- Roof corrugated iron rust at some sections.
- Guttering missing, dented and have algae build up.
- Downpipes have algae build up with only half length in dimensions
- Timber walkway panels have wear and tear, wraps/bends when walking indicating damaged/missing floor joist and bearer.
- Electrical light, fans and power switches are missing, damaged and exposed.

PROIFCT NAME: PROJECT NUMBER: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

22403058

ASSEMBLIES OF GOD PRIMARY SCHOOL SCHOOL NAME:

Revision No. A

<sup>&</sup>lt;sup>5</sup> Good - No additional works / intervention required

<sup>&</sup>lt;sup>6</sup> Fair - Remedial works required - min CAT 3 standard

<sup>&</sup>lt;sup>7</sup> Poor - Demolition and replace with new - min CAT 4 standard

<sup>8</sup> Type of structure - Timber/concrete/steel

#### INFRASTRUCTURE ASSESSMENT FOR (ASSEMBLIES OF GOD PRIMARY SCHOOL)



- No drainage was observed. Water from guttering flowing down to earth.
- The paints on the walls were peeled off in some sections.
- > Window shutters are present in almost all windows in administration section used for safety purpose only. Not compliant to cyclone certification. Some sections showed corrosion.
- Fascia board shows water damage (rotting) at some sections.
- Absence of roof gutter.
- Electricity, internet and water is sufficient.
- 1x door entry on each side of the class
- Ramp provide to cater for disability students
- Roof cladding was a corrugated roofing iron which was newly painted and fastened at every purlin with roofing nails.
- The roof structure was a fink truss entirely made of timber (6 x 2 rafters, 3 x 2 purlins, 6 x 2 ceiling joists, 6 x 1 ridge board, 4 x 2 truss brace, 2 x 2 lateral bracing.
- > Truss was connected with just nail connection without any ties or nail plates. Not fully cyclone compliance.
- > 6-inch exterior concrete walls with hairline cracks on the front and side end.
- Rear wall contained visible cracks of about 600mm in length and 150mm maximum crack width on the window lintels.
- Absence of interior columns as the walls supported the weight of the building. Exterior columns on the walkways made up of 2inch circular hollow section posts fixed to rafter and ceiling joists through anchor bolts and steel U- plates.
- Absence of ceiling joist to wall tie downs. Not cyclone compliant.
- Interior floor fully tiled with exterior walkway surface having hairline cracks at some sections. Approximately 250mm depth on top floor resting on ground.
- Window shutters are present in almost all windows in section used for safety purpose only. Not compliant to cyclone certification. Some sections showed corrosion.
- Shutters outside the classroom badly rusted and of large openings not compliant under cyclone standards.

PROJECT NAME: PROJECT NUMBER: 22403058 SCHOOL NAME:

INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS



### c) EXISTING BUILDING INFORMATION

Dimensions Length (m): 65.7 Width (m): 7.4 Height (m): 2.6

## **Existing State of Building**

REF. No.	Building Component	Good <sup>9</sup>	Fair <sup>10</sup>	Poor <sup>11</sup>	Structure Type <sup>12</sup>	Comments		
1	Roof Lining		✓		Corrugated	Rusted at some se	ctions.	
2	Roof Structure				Timber/steel	Inadequate timber	structure connection	
3	Walls		✓		Concrete	Partially damaged	on the exterior and interior	
4	Columns		<b>√</b>		Timber/ Concrete	Partially damaged on the exterior and interior		
5	Beams		<b>√</b>		Timber/ Concrete	Deteriorating and algae building and physical damaged		
6	Floor		✓		Concrete	Concrete cracks on floor		
7	Handrails				Timber	Shows signs of damaged inadequate connections		
8	Walkway(s)		✓		Concrete	Shows signs of dar	maged and cracks.	
9	Services – water supply	✓			WAF	Adequate supply w	ith backup tank for washroom	
10	Available taps for general use	<b>√</b>				# Of taps 10	Student – tap ratio = #:	
11	Services – electricity	✓			EFL	Adequate supply/w	rires exposed/damaged lights	
12	Services – communication (internet)	<b>√</b>				Adequate internet connections.		
13	Drainage			✓		Damaged drains/m	issing drains	

#### **Comments**

### Overcrowding

- The administration block is easily accessible to guests as it is located on the right of driveway entrance to school.
- The office is clearly visible with adequate signage in the exterior and interior of the building.
- The paints on the walls were peeled off in some sections.
- There is major denting in some sections of the rear gutter.
- Excessive building material wastes around the technical department ground floor. Two-metre-wide workshop door made from recycled 2x2 timber and chain-link. High risk of safety of students.
- The water supply, electricity and internet connection are stable with sufficient lighting throughout the building.
- Insufficient lighting at the technical department section (missing tube lights)
- The toilets on the top floor neatly maintained with 1 bay each. Each toilet contains a hand basin, soap, toilet paper, tissue paper with a 600 x 800 louvre blade window for ventilation.
- Nearest boys' toilet is three blocks away from technical department classroom. Little consideration for boys' convenience.
- 1 manhole present in the admin office passage ceiling.
- Exposed v-drain with cracks on some sections of administrative block.
- Half covered exterior wall for toilets

PROJECT NAME: PROJECT NUMBER: SCHOOL NAME: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

22403058

ASSEMBLIES OF GOD PRIMARY SCHOOL

<sup>&</sup>lt;sup>9</sup> Good - No additional works / intervention required

<sup>&</sup>lt;sup>10</sup> Fair - Remedial works required – min CAT 3 standard

<sup>&</sup>lt;sup>11</sup> Poor - Demolition and replace with new - min CAT 4 standard

<sup>&</sup>lt;sup>12</sup> Type of structure - Timber/concrete/steel

### INFRASTRUCTURE ASSESSMENT FOR (ASSEMBLIES OF GOD PRIMARY SCHOOL)



- 3 bays of boy's toilets are not enough to cater for 7 Bays of classroom.
- Excessive concrete damage on the open square drain channel under the technical department section. Concrete severely chipped causing water log at various places.
- Poorly designed drainage outlet from technical department drain channel to main roadside drainage.
- Roof cladding was a corrugated roofing iron which was newly painted and fastened at every purlin with roofing nails.
- Interior floor fully tiled with exterior walkway surface having hairline cracks at some sections. Approximately 250mm depth on top floor resting on ground.
- Window shutters are present in almost all windows in administration section used for safety purpose only. Not compliant to cyclone certification. Some sections showed corrosion.
- The paint on the building is being peeled off.
- Fascia board shows water damage (rotting) at some sections.
- Absence of roof gutter.
- Kitchen is properly maintained.
- Canteen properly maintained with presence of fire extinguisher.
- Handrails have one intermediate support with no balusters indicating structure constructed to keep students off the school gardens with minimum consideration for safety.
- Fire hydrant onsite (Not working).
- Require retaining wall at rear side of the building shows signs of soil erosions.

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## d) EXISTING BUILDING INFORMATION

**Building Index Building D** Year built: ..... Age: ...... 3x Classroom for top level. No. of Levels: 2 Type: 3x Classroom Floor level. **Dimensions** Length (m): 27.9 Width (m): 10.5 Height (m): 6.8 (upto eaves)

## **Existing State of Building**

REF. No.	Building Component	Good <sup>13</sup>	Fair <sup>14</sup>	Poor <sup>15</sup>	Structure Type <sup>16</sup>	Comments		
1	Roof Lining			✓	Corrugated	Rusted at some sections.		
2	Roof Structure				Timber	Inadequate timber structure connection		
3	Walls		✓		Concrete	Partially damaged on the exterior and interior		
4	Columns		✓		Concrete	Shows signs of hairline cracks.		
5	Beams		✓		Concrete	Shows signs of hairline cracks		
6	Floor		✓		Concrete	Severe cracks and chipping around stairs.		
7	Handrails		✓		Steel	Shows signs of damaged		
8	Walkway(s)		✓		Concrete	Shows signs of damaged and cracks.		
9	Services – water supply	✓			WAF	Adequate supply with backup tank for washroom		
10	Available taps for general use	<b>√</b>				# Of taps 0 Student – tap ratio = #:		
11	Services – electricity		✓		EFL	Adequate supply/wires exposed/damaged lights		
12	Services – communication (internet)	<b>✓</b>				Adequate internet connections.		
13	Drainage			✓				

## **Comments**

- Overcrowding
- Dimensions of each classroom, labs etc
- Visual defects
- Absence of valley gutter. Corrugation placed irregularly.
- Severe damage to eaves batten at the rear end.
- Fascia board shows algae build up.
- Holes and tear on timber walls inside classrooms.
- Rusted CHs posts at the joints
- Missing rails (especially bottom rail) at sections of railings posing safety hazard.
- Hairline cracks and chips at some sections.
- Missing lights and damaged lights and ports in some classrooms.
- The roof structure was a fink truss entirely made of timber (6 x 2 rafters, 3 x 2 purlins, 6 x 2 ceiling joists, 6 x 1 ridge board, 4 x 2 truss brace, 2 x 2 lateral bracing.
- Truss was connected with just nail connection without any ties or nail plates. Not fully cyclone compliance.

PROJECT NAME:

INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

22403058

PROJECT NUMBER: ASSEMBLIES OF GOD PRIMARY SCHOOL SCHOOL NAME:

<sup>&</sup>lt;sup>13</sup> Good - No additional works / intervention required

<sup>&</sup>lt;sup>14</sup> Fair - Remedial works required - min CAT 3 standard

<sup>&</sup>lt;sup>15</sup> Poor - Demolition and replace with new - min CAT 4 standard

<sup>&</sup>lt;sup>16</sup> Type of structure - Timber/concrete/steel

## INFRASTRUCTURE ASSESSMENT FOR (ASSEMBLIES OF GOD PRIMARY SCHOOL)



-Exposed starter bars at rear side of the building don't compile safety of students Handrails have one intermediate support with no balusters indicating structure constructed to keep students off the school gardens with minimum consideration for safety.

- Fire hydrant onsite (Not working).
- Require retaining wall at rear side of the building shows signs of soil erosions.

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INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

ASSEMBLIES OF GOD PRIMARY SCHOOL



## e) EXISTING BUILDING INFORMATION

	Year built: Age:								
Type: Toilet Block No. of Lev	vels: 1								
Dimensions Length (m): 28.3 Width (m): 7.5 Height (m): 2.7(upto eav	res)								
Existing State of Building									

REF. No.	Building Component	Good <sup>17</sup>	Fair <sup>18</sup>	Poor <sup>19</sup>	Structure Type <sup>20</sup>	Comments	
1	Roof Lining			✓	Corrugated	Rusted at some sect	ions.
2	Roof Structure				Timber	Structure was inaccessible due to absence of manhole	
3	Walls			✓	Concrete	Concrete walls /Mind	or paint peel
4	Columns		✓		Concrete	Minor paint peel and hairline cracks	
5	Beams		✓		Concrete	Minor paint peel and hairline cracks	
6	Floor			✓	Concrete	Severe cracks and chipping	
7	Handrails			✓			
8	Walkway(s)		✓			Shows signs of damaged and cracks.	
9	Services – water supply	<b>√</b>				Adequate supply with backup tank for washroom use	
10	Available taps for general use	<b>√</b>				# Of taps 14	Student – tap ratio = #:
11	Services – electricity			✓		Adequate supply/wires exposed/damaged lights	
12	Services – communication (internet)	<b>√</b>					
13	Drainage			✓		Damaged drains/missing drains	

## **Comments**

- Gable roof.
- Walkways and staircases having roof to accommodate for rainy conditions.
- > The paint on the building is being peeled off partially in some sections. Mainly observed in ground floor on the rear wall and front fascia boards.
- Missing gutter system on the toilet roof with partial denting in some sections.
- Interior ceiling shows damage with missing roof cover in one section of a staircase.
- One water storage tank for toilet uses behind the building.
- Building walls required re-painting works.
- Paint peel in some sections of the fascia board.
- Missing gutter system on the toilet roof with partial denting in some sections.
- Absence of window shutters throughout the building.
- Electricity and internet and water is sufficient.
- Toilets WASH easily accessible but requires some maintenance works.

PROJECT NAME:

INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

PROJECT NUMBER: 22403058

SCHOOL NAME: ASSEMBLIES OF GOD PRIMARY SCHOOL

<sup>&</sup>lt;sup>17</sup> Good - No additional works / intervention required

<sup>&</sup>lt;sup>18</sup> Fair - Remedial works required – min CAT 3 standard

 $<sup>^{\</sup>rm 19}$  Poor - Demolition and replace with new - min CAT 4 standard

<sup>&</sup>lt;sup>20</sup> Type of structure - Timber/concrete/steel

## INFRASTRUCTURE ASSESSMENT FOR (ASSEMBLIES OF GOD PRIMARY SCHOOL)



- Drainage adequately maintained with minor damages. Open v-drain with minor concrete damage. Missing drain cover in front facing drains.
- Adequate ventilation is in all levels of the building.
- Easily accessible to non-accessible student.
- Not accommodating to wheelchair users who require a minimum of 1m clearance.
- Absence of ramps throughout the building.
- All toilets are located at a distance away from the main walkway.
- Boys' toilet located at right end is farther away from left end classrooms. This requires boys to travel at a greater distance to reach the toilet.
- The boys and girl's toilets require cleaning.

PROJECT NAME: PROJECT NUMBER: 22403058 SCHOOL NAME:

INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

ASSEMBLIES OF GOD PRIMARY SCHOOL



## 4) PHOTOGRAPHIC REPORT

Client:	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School Name:	ASSEMBLIES OF GOD PRIMARY
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.	Building Index:	С





PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: SIDE



PHOTOGRAPH No. 3: BACK



PHOTOGRAPH No. 4: SIDE



PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: ROOF

PROJECT NAME: PROJECT NUMBER: SCHOOL NAME: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

22403058

ASSEMBLIES OF GOD PRIMARY SCHOOL

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Client:	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School Name:	ASSEMBLIES OF GOD PRIMARY
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.	Building Index:	В
THE WAY			CAUTON
	PHOTOGRAPH No. 1: FRONT	PHOTOGRAPH No. 2: SIDE	
	PHOTOGRAPH No. 3: SIDE	SIDE PHOTOGRAPH No. 4: BACK	
	PHOTOGRAPH No. 5: INTERIOR	PHO	OTOGRAPH No. 6: ROOF SPACE



Client:	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School Name:	ASSEMBLIES OF GOD PRIMARY		
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.	Building Index:	g A		
SOOO VISUAL MISCOLA CONTRACTOR OF THE PROPERTY					
PHOTOGRAPH No. 1: FRONT		PHOTOGRAPH No. 2: SIDE			
	FEAR OF THE LORD IS THE FOUNDATION OF TIME KNOWLEGGE POUNDATION OF TIME POUNDATION OF TIME KNOWLEGGE PO				
	PHOTOGRAPH No. 3: BACK PHOTOGRAP		PHOTOGRAPH No. 4: SIDE		
		ZEENO			
	PHOTOGRAPH No. 5: INTERIOR		OTOGRAPH No. 6: ROOF SPACE		



Client:	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School Name:	ASSEMBLIES OF GOD PRIMARY
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.	Building Index:	D
	PHOTOGRAPH No. 1: FRONT		PHOTOGRAPH No. 2: SIDE
	PHOTOGRAPH No. 3: BACK		PHOTOGRAPH No. 4: SIDE
	PHOTOGRAPH No. 5: INTERIOR	PH	OTOGRAPH No. 6: ROOF SPACE



Client: TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD **School Name: ASSEMBLIES OF GOD PRIMARY** INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN Building Toilet Block Project: SCHOOL. Index: PHOTOGRAPH No. 1: FRONT PHOTOGRAPH No. 2: SIDE PHOTOGRAPH No. 3: BACK PHOTOGRAPH No. 4: SIDE

> DUE to roof space inaccessibility, the roof space photograph cannot be provided.

> > PHOTOGRAPH No. 6: ROOF SPACE

PROJECT NAME: PROJECT NUMBER: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

22403058

PHOTOGRAPH No. 5: INTERIOR

ASSEMBLIES OF GOD PRIMARY SCHOOL SCHOOL NAME:

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## Appendix B – Excel Scoring Sheet

	WEIGHTED CRITERIA		
1	PART A - CLASSROOM OVERCROWDING (40%) Classrooms facilitating students beyond room capacity, determined through number of students per classroom and classroom size		
	Poor - most to all classrooms are accommodating students above capacity.	32 to 40	40
	Criteria Item Score		40.0
2	PART B - WASH FACILITIES (20%) WASH- Student ratio based on the Fiji National Building Code (FNBC) Infrastructure Standards (10%)		
	Good - WASH-Student ratio for school toilet blocks meets or exceeds the ratio in the standard specified by FNBC.	0 to 5.9	5
2.1	Quality of facilities and current condition such as funtionality and maintenance (10%)		
	Poor - school toilet facilities are not maintained and the physical infrastructure cause major disturbances to end users.	8 to 10	8
	Criteria Item Score		13.0
3	PART C - CONDITION OF INFRASTRUCTURE (20%) Building structure and condition of walls, floors, ceilings, overall structural integrity (10%)		
	Fair - some building structures require more intervention to improve structural integrity and condition.	6 to 7.9	7
3.1	Maintenance and assessment of the upkeep of facilities including painting and repairs (10%)		
	Poor - school facilities are not maintained and the physical infrastructure cause major disturbances to end users.	8 to 10	8
	Criteria Item Score		15.0
	PART D - DISABILITY ACCESSIBILITY (10%)		
4	Accessibility features such as the presence of existing ramps, handrails, accessible toilets etc		
	Poor - School buildings and facilities do not have accessibility features.	8 to 10	8
	Criteria Item Score		8.0
	PART E - DISASTER RESILIENCE (10%)		
5	Presence and quality of measures for disaster resilience of buildings including structural measures, cyclone shutters and fire safety systems		
	Poor - most or all school building structures are not resilient to natural disasters and do not have safety systems in place.	8 to 10	10
	Criteria Item Score		10.0
	TOTAL CRITERIA SCORE		86.0

## Appendix C – Land Available for Expansion













## NRW MACALLAN (FIJI) LTD CONSULTING ENGINEERS

CIVIL, STRUCTURAL, ELECTRICAL, MECHANICAL & PROJECT MANAGEMENT 79 RATU MARA ROAD, SAMABULA, SUVA
P O BOX 1208, SUVA. PHONE: (679) 3313 388, FAX (679) 3302 903
EMAIL: info@nrwmacallan.com.fj

SCHOOL NAME:

AOG PRIMARY SCHOOL