

INFRASTRUCTURE ASSESSMENT AUDIT FOR SUVA – NAUSORI URBAN SCHOOLS

JEREMIAH RAIBEVU COLLEGE (REG 1683)

SUMMARY REPORT





PROJECT NAME:INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLSPROJECT NUMBER:22403058SCHOOL NAME:JEREMIAH RAIBEVU COLLEGE

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1) INSPECTION SUMMARY

School Inspection Summary	1					
School name:	JEREMIAH RAIBEVU COLLEGE					
Overall condition state:	GOOD					
land where the school can be relocated. - WASH – New toilet cubicles required for girls / maintenance of - Accessibility –All buildings require accessibility ramps, access - Disaster resilience – Windows to include cyclone shutters and	- Overcrowding - New classrooms required based on FNBC standards. School board and trustees are still in talks with ITLTB on a piece of					
Comments:						
 Major defects were noted as follows: Damaged ceiling with water leakage stain (Not applical Cracks on walls (Not applicable) Missing ramps (All buildings) Stairway not applicable. (All single storey buildings) Girls'& Boys toilet cubicles in fair condition. Dented and dislodged handrails. (Not applicable) Rusted roof cladding, gutter and roofing nails (B1-B4) 	ıble)					
Aerial view of school	General view of school					
	<image/>					

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School type:	Primary		Secor	ndary	 ✓ 	Year		11, 12, & 13
						levels		
School address:	OFF PRINCESS ROAD, P.O.BOX 62, SUVA							
School enrolment and staff figures	Students	No. o Students (Female)		of Stude Disability	1	lo. of ſeachers Male)	No. of Tea	achers (Female)
	89	96	1		7	7	10	
School building arrangement	TOTAL NUM	BER OF BUI	ILDING	S: 4				
	1 STOREY B	1 – B4						
Local government area:	REWA STRE	ET, SAMAB	ULA					
Date of inspection:	31 ST JULY, 2	024						
Inspection team:	FREDDY TU	RAGA (FT)	SURA	J RAGHU	NATH	(SR)		
	ALEKSIO MA	NOA (AM)	LAITE	TELAWA	(LT)			
	RAJIV KUMA	R (RK)						
Data collection methods	Visual inspec	tion		✓	Onsite	measure	ement	\checkmark
	Interviews wit	th school sta	ff	✓	Drone	/ aerial in	nagery	\checkmark
	Survey form			✓	Deskto	p resear	ch	\checkmark
	Other: N	ONE				-		
Assumptions:	NONE							
Limitations:	UNAVAILABI AREA.	LITY OF A	LL SCI	HOOL D	OCUM	ENTS S	UCH AS	BOUNDARY

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 m² per student.

The results of the assessment are based on the recommended sizing (1.5m²), according to 2024 data, an additional 3 classrooms are required for Jeremiah Raibevu College.

Year	Stream	Number of students	Current number of classrooms	Number of extra classrooms required based on FNBC on 2024 data
9	9A	54	1	1
10	10A	39	1	1
11	11A	44	1	1
12	12A	26	1	0
13	13A	23	1	0



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
B1	38.3	8.0	2.6	1	Concrete Wall and cladding on timber framed roof structure. Constructed in 2017-2018.	Ground Floor – 1 x TD Room 3 x Classrooms 1 x Staff Room
B2	32	8.0	2.5	1	Concrete wall with cladding on timber framed roof structure. Constructed in 2019.	Ground Floor – 2 x Classrooms 1 x Science Lab
B3	8	8.0	2.5	1	Concrete wall with timber framed roof structure. Constructed in 2022.	Ground Floor – 1 x Library
B4	12	10.0	2.5	1	Timber frame structure wall, with C.G.I. cladding on wall and timber framed roof structure. Constructed in 2019.	Ground Floor – 1 x Home Economics Room 1 x Applied Tech Room

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	Poor
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 Lighting.	Good

Observations on Structural Elements

- Walls and Ceiling There was no water leak marks in the ceiling. During heavy rain with strong gust the sides of the wall on the corridor side and the door leaks of water at Year 9 classroom and TD Room.
- Floors and Foundation the floor and foundation for the entire school is found to be stable. There were no visible or sign of cracks but there was uneven surface. However, the floor is mostly covered with tiles. Missing tiles and deteriorated tiles need to replaced and repaired.
- Roofs the school reported no roof leak. It was found that roof materials are in good condition and dislodged downpipes and gutters noted and require upgrade work on the roof structure and roof cladding.
- > Windows some missing window louvre blades were recorded at various buildings.
- **Earthquake** Not applicable. One storey buildings only.
- **Cyclone** minor roof upgrading works required to increase cyclone resilient capacity of the structures.



Existing Conditions of Building and Maintenance

- Exterior all buildings have no missing fascia boards and gutters; is in good condition as the wall, beam, column, window seal, doors, eaves, fascia boards and gutters are intact and coated with paint. The school to execute periodical maintenance.
- Interior the building is in good condition as the walls, beams, columns windows, doors and ceiling are intact and coated with paint. The school to execute 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. Only the Science Lab, the Ministry of Education AMU contractors used untreated timber to do cabinet fittings and tables, now the furniture and fixtures are infested with insects and decaying. The school to remove these furniture and contact Biosecurity Authority of Fiji (BAF) to ensure the school have a termite infestation.

Safety and compliance with standards

- Fire Safety the school does not possess adequate fire safety mechanisms. No present fire Extinguishers. No fire hydrants and alarm systems were found. The school has Emergency 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. Even thou there are some faulty lights, switches, ceiling fans, etc. These does not compromise the ability for the teachers to teach the students.
- 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

- Ventilation HVAC system (Heating, Ventilation, and Air Conditioning) is centrally located in the school, in particular, admin office.
- 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

Jeremiah Raibevu College has 2 blocks with toilet facilities. The facilities have some minor defects such as:

- The cubicle doors were not 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 I good condition and there are no damages to the tiles.

The WASH facilities were clean and regular maintenance with the boys and girl's toilet cubicles do comply with the FNBC for toilet numbers.



The school has designated toilet blocks for all building. For instance, the female and male students in Building B1, B2, B3 and B4 are assigned to use WC#1 & WC#2 respectively. The table below provides data on wash facilities. The Table below presents wash facilities data.

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?
WC1	Y9 – Y13	5	0	96	0	1	0
WC2	Y9 –Y13	0	4	0	89	0	1

HAND BASINS IN THE TOILET		No. of Hand Basins		Hand basin Ratio 1:		Compliance of Student to Hand Basin Ratio (FNBC).	
Building Index	Used by Years	Female	Male	Female	Male	Female Requirement (1:60) Extra Hand basins?	Male Requirement (1:60) Extra Hand basins?
WC1	Y9 – Y13	1	0	96	0	1	0
WC2	Y9 –Y13	0	0	0	89	0	2



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	Y9 – Y11	10 Taps (T3) along the Corridor 6 Taps (T6, T7) along the walkway (WW1)	173	0
B2	Y12 –Y13	6 Taps (T4, T5) along the Corridor	81	0
В3	Y9 – Y13	1 Tap along the Corridor and Canteen	30	0
B4	Y9 – Y13	1 Tap (T8) along the walkway (WW1) behind the building (B4)	60	0
WC1	Y9 – Y13	6 Taps (T1) entry to the girls toilet (WC1)	96	0
WC2	Y9 – Y13	3 Taps (T2) side of the boys toilet (WC2) and 1 Tap behind the girls toilet (WC1) and Water Tank (WS2)	89	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 no cyclonic roof designed to withstand strong winds and seismic activity. However, replacement with new roof cladding and roofing screws is ongoing and 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 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 firerelated risks.

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.
- Scripture are not able to accommodate students with various disabilities with the absence of adjustable benches and clear pathways.
- Libraries require accessible shelving, reading stations, and assistive technology (such as screen readers) to enhance library usability.
- Restrooms (WASH facilities) are not wheelchair-accessible or have grab bars and sinks at an appropriate height.
- Common Areas: the cafeterias and outdoor spaces are 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 have adequate wide doorways 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.



7) SUMMARY OF FINDINGS

The following summarizes the individual characteristics assessed during the Suva-Nausori school audit for Jeremiah Raibevu College.

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 checkup 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 185 roll/ 5 classrooms of 185 students.	- FNBC 1990 requires classroom occupancy to have 2m ² per person. Based on that, the required roll per classroom was calculated.	 - 3/5 classrooms were accommodating more roll than required. - Given the recommended sizing (1.5m²), about 3 extra classrooms are required to address overcrowding in school.
Water Sanitation Hygiene (WASH) facilities	Toilets (students: Cubicle) - Boys – 89:1 (4 cubicles 1 Shower) - Girls – 96:1 (5 cubicles 1 Shower) Taps (students: tap) - Students – 185:1 (34 taps) - Menstrual Hygiene was present in female washroom block & admin office	Toilets Ratio (students: Cubicle) - Boys – 24:1 (4 cubicles) - Girls – 26:1 (5 cubicles) Taps Ratio (students: tap) - Students – 185:1 (34 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.	 Girl's toilet ratio was in par with the FNBC 1990 ratio. This may hinder later on with growing population. The boy's toilet ratio exceeded the FNBC requirement indicating not enough toilet cubicles are in the school. Given the roll of girls, a total of 6 extra cubicles is required The tap ratio was below the FNBC requirement indicating extra taps are in the school. school require maintenance of pipes and WAF to address the low water pressure in WASH facilities.
Disaster Resilience Assessment	 columns, beams, slabs had hairline cracks. All roof had truss roof frames. The windows only have burglar shutters at Library. Roof cladding is in good condition. roofing nails show rusting. 	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	Classrooms and labs have typical door size of 0.8 – 0.9m width.	The following are requirements from Fiji Disabled People's Federation Access Audit Tool - Ramps – required wherever elevation with minimum 1:8 maxi. 1:20	The following facilities are missing. - Ramps and elevators for vertical access - Wide doorways and clear pathways - Proper signage - Wheelchair-accessible restrooms



- Walkway clearance - - Handrails to be 0.76m to 0.9m. - Doors and Door size – minimum 0.9m. - Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)	 Grab bars Proper signage Inclusive seating areas and pathways Proper lighting Contrasting floor materials
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8) <u>RECOMMENDATIONS</u>

- > In order to comply with the FNBC, the school will require the following:
 - Classrooms: An additional 1 new classroom for students in years 9. This expansion aims to accommodate the growing number of students and provide them with an enhanced learning environment.
- WASH Facilities: An additional 10 cubicles for boys is required, equipped with up-to-date WASH facilities (hand basins),10 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 not par with the FNBC ratio. The exact number could be discussed upon further analysis.

Weekly routine maintenance work and daily cleanup 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 buildup.
- 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) <u>COMPLIANCE</u>

Upon inspecting Jeremiah Raibevu College, the following conclusions were drawn:

- MEHA Compliance: Non- Compliant. Classroom doors too narrow for wheel chairs access the classrooms.
- WASH Facilities: The school require ample hand basins in both girls and Boys Toilet. Additional boys and girl's toilet cubicles required to comply with FNBC 1990.
- Land Availability: There are four new WASH areas done, teacher's car park in construction and renovation of ablution blocks for both boys and girls. School board and Trustees are still in talks with ITLTB on a piece of land where the school can be relocated.
- > No **NFA** certification.
- WAF Compliance: Adequate water supply due to low water pressure hence the Water Tanks for backup system for water cuts.
- FNBC Compliance: The school is compliant with the occupancy requirements except for Year 9A Classroom as well as the category 5 cyclone standards based on the windows and roofing requirements.
- > NDMO Compliance: Targeting NFA and NBC compliance for safety. No cyclone shutters and support.
- > EFL Compliance: Assumed to be compliant with EFL standards.
- DISABILITY Accessibility: Non-compliant. Classroom doors too narrow for wheel chairs access the classrooms. However the width of the walkways and corridors is accessible for wheel chairs.



10) APPENDIX

- Appendix A Jeremiah Raibevu College Site Inspection Report
- Appendix B Excel Scoring Sheet
- Appendix C Land Available for Expansion

Appendix A - Site Inspection Report



INFRASTRUCTURE ASSESSMENT AUDIT FOR SUVA – NAUSORI URBAN SCHOOL(S)

JEREMIAH RAIBEVU COLLEGE (REG: 1683)

INFRASTRUCTURE REPORT





 PROJECT NAME:
 INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS

 PROJECT NUMBER:
 22403058

 SCHOOL NAME:
 JEREMIAH RAIBEVU COLLEGE

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List of Abbro	eviations
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
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

The community based school is situated inside the lease of Tacirua Primary School which is on the land of the Nawavatu Clan from Kalabu, Naitasiri.

From its humble beginnings in 2017 with only Year 9 offered and sharing male and female washroom with the primary school it has grown to a single stream class from Year 9 to Year 13, with inclusion of its own Staff Room, Technical Drawing Room, Applied Technology Room, Home Economics Room, Science Laboratory, Library and its own female and male washroom. Its latest development is an inclusion of the school canteen in 2024.

The school infrastructure is not cyclone insurance certified and has no maintenance plan. The school board and trustees are still in talks with ITLTB on a piece of land where the school can be relocated. Future development plans for expansion are in place for a new agricultural science room and a commerce department room. According to the building allocation which is 20% of FEG per term.

Currently the school has significant renovation works carried out where four (4) new WASH areas are to be built, renovation of the existing ablution blocks for both boys and girls and recent construction works of teacher's car park in progress.



Table 1: SCHOOL DETAILS

NAME OF SCHOOL	JEREMIAH RAIBEVU COLLEGE
SCHOOL REGISTRATION NUMBER	1683
SCHOOL LOCATION	OFF PRINCES ROAD, P.O.BOX 62, SUVA
SCHOOL TYPE	COMMUNITY COLLEGE
FEEDER SCHOOL	STATE SCHOOL: ECE, PRIMARY, SECONDARY
DATE OF INSPECTION	31.07.2024
MILESTONE	(47/ 86 SCHOOLS)
INSPECTED BY (TEAM 4)	RAJIV KUMAR (RK)
	SURAJ RAGHUNATH (SR)
	LAITE TELAWA (LT)
	ALEKSIO MANOA (AM)

Table 2: SCHOOL ENROLMENT FIGURES

Year of	Numb	per of Stude	nts	Students	Numb	er of Teachers		
Enrolment	Male	Female	Total	with Disability	Male	Female	Total	Comments
2024	89	96	185	1	7	10	17	Number of Classrooms: 9
2023	89	101	190	0	5	12	17	Student to stream average
2022	74	96	169	0	5	11	16	ratio is 10.9 :1 for 2024
2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	school calendar.
2020	n/a	n/a	n/a	n/a	n/a	n/a	n/a	• WASH ratio = 26: 1 per toilet
2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	 24:1 per tap EVACUATION CENTRE: NO. Enrolment process applicable to Secondary School cut-off mark for year 13 is a pass in the FY12CE. Feeder schools for Year 9 enrolment is on a first come first serve basis for the first 55 students from feeder school is Tacirua Primary School.

Table 3: 2024 CLASSROOM ENROLLMENT DETAILS

GRADE	CLASS	TOTAL	NUMBER OF	DIMENS	IONS (m)	ACCESS	WAY COUNT	OVERCROWDING
	NUMBER	STUDENT ROLL	TEACHERS	LENGTH	WIDTH	NO. OF DOORS	NO. OF WINDOWS	
9	N/A	54	1	8	8	1	15	⊠YES □NO
10	N/A	39	1	7.5	8	1	14	□YES ⊠NO
11	N/A	44	1	8	8	2	12	□YES ⊠NO
12	N/A	26	1	8	8	2	12	□YES ⊠NO
13	N/A	23	2	8	8	2	12	□YES ⊠NO
-	TD ROOM	30	2	8	8	1	15	□YES ⊠NO
-	SCIENCE LAB	30	1	16	8	3	28	□YES ⊠NO
9	HOME ECON	30	2	6	10	2	14	□YES ⊠NO
9	APPLIED TECH	30	1	6	10	2	13	□YES ⊠NO

Frequency of enrolment start of the school year, continual throughout the school year, as and when needed basis.

Heads of Schools Include: 2017 – Mrs. Jijilia Vere

2018 – Mrs. Mateiwai

2019 – 2023 – Mrs. Tarisi Tawake

2024 – Ms. Merewalesi Tuiloma

External exams passing rate:

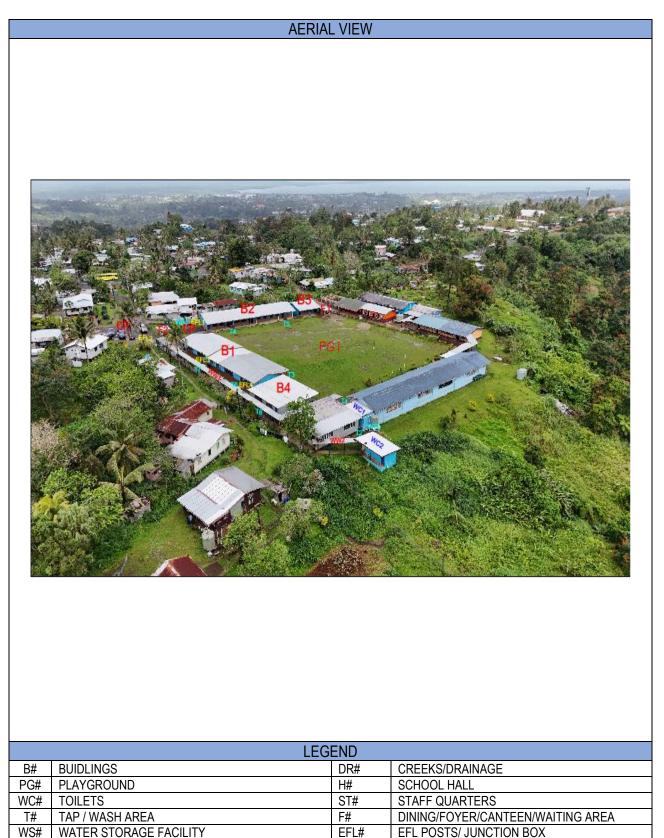
Year	FY12CE	FY13E
2020	68%	
2021	42%	48%
2022	52%	69%
2023	66%	85%

Drop Out Rate: 2023 Year 12 Roll - 36 compared to 2024 Year 13 Roll – 23 (56%)

Under MoE requirement, Primary 1.1 sqm oer pupil. Clear zone 1.8m wide front of class for safe egress and ingress.



2) SCHOOL SITE PLAN (DRONE IMAGERY OF SCHOOL)



CP

WW#

CAR PARK

WALKWAY

SEPTIC TANK

LAND AVAILABILITY

SEP#

LA#



3) VISUAL INSPECTION RESULTS

a) BUILDING B1 INFORMATION

Buildin	ng Index B1 : Classroon	n				Year built: 2017	-2018 (Age: 6 years old)			
Туре:	 Ground floor: 3nd 1no. Admin. Office 		oms (Year	9, Year 1	0 & Year 11)	1no. TD Room	No. of Levels: 1			
Dimen	sions Length ((m): 38.3	Width (m	n): 8.0		Height (Height (m): 2.6 (up to eaves)			
			Exi	sting State	of Building	I				
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴		Comments			
1	Roof Lining				Timber	In good condition.				
2	Roof Structure	\boxtimes			Timber	Corrugated roof c	ladding in good condition.			
3	Walls	\boxtimes			Concrete	In good condition.	. Finished paint.			
4	Columns	n/a			n/a	n/a				
5	Beams	\boxtimes			Concrete	In good condition.	. Finished paint.			
6	Floor	\boxtimes			Concrete	In good condition. Floor tiles in good condition.				
7	Handrails				n/a	n/a				
8	Walkway(s)	\boxtimes			Concrete	In good condition. Ramps provided along the walkway (WW1) to classroom doors.				
9	Services – water supply					Adequate taps located at the corridor and walkway (WW1) for WASH facilities. WASH facilities located adjacent to the school. WAF serviced.				
10	Available taps for general use					10 Taps (T3) along the Corridor 6 Taps (T6, T7) along the walkway (WW1)	Student – tap ratio = 24: 1			
11	Services – electricity					In good condition. ceiling fans, EFL	Any faulty tube lights and or Licensed Electrician to carry in accordance to EFL standard ing regulation.			
12	Services – communication (internet)					In good condition.				
13	Drainage	\boxtimes			Concrete	In good condition. maintenance.	. Regular cleaning and			

- Building B1 is a single storey constructed out concrete block walls and concrete beams with slab on ground. Block
 walls for external load bearing and internal walls. Doors and windows present on lengthwise of the structure. Gable
 roof with metal cladding and timber framed roof members. Natural light and ventilation. Classrooms well maintained
 by school committee.
- Walkway (WW1) and corridor located beside classrooms and building will require fire extinguishers and fire hose reel.
- Overcrowding only in Year 9A classroom.

¹ Good - No additional works / intervention required

² Fair - Remedial works required – min CAT 3 standard

³ Poor - Demolition and replace with new - min CAT 4 standard

⁴ Type of structure - Timber/concrete/steel



- Dimensions of each classroom Length(m) = 8.0, Width(m)= 8.0, Height(m) = 2.60; Office Length(m) = 6.8, Width(m) = 8.0, Height(m) = 2.60. Admin Office was constructed in 2019.
- Infrastructure accessible for disable individuals who use wheelchair or other mobility supports with ramps. The building
 only accessible via corridor, walkway, with ramps along walkway (WW1), however the doors too narrow for a
 wheelchair to fit, or a medical equipment
- Fencing to be repaired or replaced. School surrounded by village and Housing estate. People reported to jump school fence to use school playground and taps and to use it as a short cut route to squatter settlements behind school. School committee funded and constructed new wall fence to block view of residents drinking and fighting in Housing estate.
- Building B1 corridor ceiling at all location in good condition.
- Visual defects: No cyclone shutters and fastening noted for windows, water ingress during heavy rain with strong gust to the sides of the wall on the corridor side and the door, likewise with TD room. The school have no proper carpark for teachers and a pickup and drop-off carpark for students. There is a waiting area shed (F2)
- Other observations: Female WASH facilities (WC1) located to classroom building adjacent to the school.
- Taps (T3) located at classroom corridor and (T6 & T7) along the walkway (WW1).
- Refer to drone imagery on page 7 for location of building, toilets, taps, water storage, etc.
- Refer to table 3.0 on page 6 for classroom and overcrowding details.



b) BUILDING B2 INFORMATION

Buildin	Building Index B2 : Classroom		ndex B2 : Classroom			Year built: 2019 (Age: 5 years old)		
Туре:	➢ Groun	d floor: 2 x Cl	assrooms (2-Year 1)	Science	e Lab		No. of Levels: 1	
Dimens	Dimensions Length			Width (m): 8.0		Height (m): 2.5 (up to eaves)	
					Existing St	tate of Building			
REF. No.	Building Compo	onent	Good⁵	Fair ⁶	Poor ⁷	Structure Type ⁸		Comments	
1	Roof Lining		\boxtimes			Timber	In good condition.		
2	Roof Structure			\boxtimes		Timber	Corrugated roof claddi	ing in good condition.	
3	Walls		\boxtimes			Concrete	In good condition.		
4	Columns			\boxtimes		Steel/Timber	In good condition.		
5	Beams		\boxtimes			Concrete/ Timber	In good condition.		
6	Floor			\boxtimes		Concrete	In good condition. Dar	naged floor tiles to be repaired.	
7	Handrails			\boxtimes		N/A	N/A		
8	Walkway(s)			\boxtimes		Concrete	In good condition. Ref for B1 and B2	quire a link walkway roof structure	
9	Services – water	supply		X			Low water pressure. L female WASH facilities	ess taps for WASH facilities. No s. WAF serviced.	
10	Available taps fo	r general use		\boxtimes			4 (T4 & T5) of taps	Student – tap ratio = 24: 1	
11	Services – electr	icity		X			Electrician to carry out	ceiling fans. EFL or Licensed electrical work are in accordance /NZ3000 wiring regulation.	
12	Services – comn (internet)	nunication					In good condition.		
13	Drainage		\boxtimes				In good condition. Reg	ular cleaning and maintenance.	

- No overcrowding in each classroom.
- Infrastructure is inaccessible for disable individuals who use wheelchair or other mobility supports. The building only accessible via doors too narrow for a wheelchair to fit, or a medical equipment.
- Dimensions of each classroom Length(m) = 8.0, Width(m)= 8.0, Height(m) = 2.5 | Dimensions of Science Lab Length(m) = 16.0, Width(m)= 8.0, Height(m) = 2.5
- Visual defects: Mild rust present on corrugated roof cladding and will require application of weather shielding paint.
- Taps (T4 & T5) located at classroom corridor.
- Other observations: The girls use the WASH facilities at Girls Toilet Tacirua Primary School. WASH facilities located at the end of the Tacirua Primary School.
- Ministry of Education AMU contractors used untreated timber to do cabinet fitting and tables and now they are infested with insects and are decaying. School to contact relevant authority Biosecurity Authority of Fiji (BAF) at Science Lab.

 $^{{}^{\}scriptscriptstyle 5}\operatorname{\mathsf{Good}}$ - No additional works / intervention required

⁶ Fair - Remedial works required – min CAT 3 standard

⁷ Poor - Demolition and replace with new - min CAT 4 standard

⁸ Type of structure - Timber/concrete/steel



c) BUILDING B3 INFORMATION

Buildin	g Index B3 :	Library					Year built:	2022 (A	Age: 2 years old)
Туре:	➢ Ground	floor: Librar	У						No. of Levels: 1
Dimens	Dimensions Length (m): 8.0			Width (I	m): 8.0		He	eight (m)	: 2.5 (up to eaves)
				E	Existing St	tate of Building			
REF. No.	Building Compor	ient	Good ⁹	Fair ¹⁰	Poor ¹¹	Structure Type ¹²	Comments		
1	Roof Lining		\boxtimes			Timber	In good condit	tion.	
2	Roof Structure			\boxtimes		Timber	Corrugated roo	of claddii	ng in good condition.
3	Walls		\boxtimes			Concrete	In good condition.		
4	Columns			\boxtimes		Steel/Timber	In good condition.		
5	Beams		\boxtimes			Concrete/ Timber	In good condition.		
6	Floor			\boxtimes		Concrete	In good condition. Damaged floor tiles.		
7	Handrails			\boxtimes		N/A	N/A		
8	Walkway(s)			\boxtimes		Concrete	In good condition.		
9	Services – water s	upply		\boxtimes					ess taps for WASH facilities. No . WAF serviced.
10	Available taps for	general use		\boxtimes			1 no. of taps		Student – tap ratio = 24: 1
11	Services – electric	ity		X			Faulty tube lights and ceiling fans. EFL or Licensed Electrician to carry out electrical work are in accordance to EFL standard & AS/NZ3000 wiring regulation.		
12	Services – commu (internet)	nication					In good condition.		
13	Drainage						In good condit	tion. Reg	ular cleaning and maintenance.

- No overcrowding in each classroom.
- Infrastructure is inaccessible for disable individuals who use wheelchair or other mobility supports. The building only accessible via, door too narrow for a wheelchair to fit, or a medical equipment.
- Dimensions of Library Length(m) = 8.0, Width(m)= 8.0, Height(m) = 2.5
- Visual defects: Mild rust present on corrugated roof cladding and will require application of weather shielding paint.
- Other observations: The girls use the WASH facilities at Girls Toilet Tacirua Primary School. WASH facilities located at the end of the Tacirua Primary School.

 $^{^{\}rm 9}\,{\rm Good}$ - No additional works / intervention required

¹⁰ Fair - Remedial works required – min CAT 3 standard

¹¹ Poor - Demolition and replace with new - min CAT 4 standard

¹² Type of structure - Timber/concrete/steel



d) BUILDING B4 INFORMATION

Buildin	g Index	lex B4 : Classroom			Year built: 2019 (Age: 2 years old)					
Туре:		Ground flo Room)	oor: 1 x Cl	assroom (F	lome Ecc	onomics F	Room) 1 x Clas	sroom (Applied Tech	No. of Levels: 1	
Dimens	sions		Length (n	n): 12.0	Width (m): 10.0		Height (n	n): 2.5 (up to eaves)	
						Existing St	ate of Building			
REF. No.	Building (Componer	nt	Good ¹³	Fair ¹⁴	Poor ¹⁵	Structure Type ¹⁶		Comments	
1	Roof Lining]		\boxtimes			Timber	In good condition.		
2	Roof Struc	ture			\boxtimes		Timber	Corrugated roof clade	ling in good condition.	
3	Walls			\boxtimes			Timber	Corrugated wall clade	ling.	
4	Columns				\boxtimes		Steel/Timber	In good condition.		
5	Beams			\boxtimes			Timber	In good condition.		
6	Floor				X		Concrete	In good condition. Da new floor tiles provide	maged floor tiles to be repaired and ed.	
7	Handrails				\boxtimes		N/A	N/A		
8	Walkway(s	;)			\boxtimes		Concrete	In good condition.		
9	Services –	water sup	ply		X			Low water pressure. I female WASH facilitie	Less taps for WASH facilities. No es. WAF serviced.	
10	Available t	aps for ger	neral use		X			1 no. of taps at walkway (WW1)	Student – tap ratio = 24: 1	
11	Services –	electricity			\boxtimes			Faulty tube lights and ceiling fans. EFL or Licensed Electrician to carry out electrical work are in accordance to EFL standard & AS/NZ3000 wiring regulation.		
12	Services – (internet)	communio	cation					In good condition.	~ ~	
13	Drainage			\boxtimes				In good condition. Re	gular cleaning and maintenance.	

- No overcrowding in each classroom.
- Infrastructure is inaccessible for disable individuals who use wheelchair or other mobility supports. The building only accessible via, door too narrow for a wheelchair to fit, or a medical equipment.
- Dimensions of Library Length(m) = 12.0, Width(m)= 5.0, Height(m) = 2.5
- Visual defects: Corrugated wall and roof cladding and will require application of weather shielding paint.
- Other observations: The girls use the WASH facilities at Girls Toilet Tacirua Primary School. WASH facilities located at the end of the Tacirua Primary School.

 $^{^{\}rm 13}$ Good - No additional works / intervention required

 $^{^{\}rm 14}$ Fair - Remedial works required – min CAT 3 standard

 $^{^{\}rm 15}$ Poor - Demolition and replace with new - min CAT 4 standard

¹⁶ Type of structure - Timber/concrete/steel



e) TOILET BLOCKS (FEMALE) – WC1

Building Index	WC1 – TOILET BLOCK (FEMA	LE ONLY)			Ye	ar built:	2018 (Age: 6	years old)
Гуре:	Girls Toilet: 5no. w Menstrual hygiene b		: 1no. sł	nower 1no	. hand wash	basin 1no	o. No. of Levels: 1	
Dimensions	Length (m): 9.0		Width (I	n): 3.0		Height	(m): 2.5 (up	to eaves)
		Exis	sting Stat	e of Buildin	g	1		
REF. No.	Building Component	Good ¹⁷	Fair ¹⁸	Poor ¹⁹	Structure Type ²⁰	Count ²¹		Comments
1	Toilet Bays – male	n/a			n/a	n/a	n/a	
2	Toilet Bays – female				Concrete	5	Regular maintenance and cleaning required.	
3	Toilet Partition between boys and girls.				Concrete	5	Block wall full height.	
4	Shower bay					1	1no. separate cubicle for shower.	
5	Toilet Bays – accessible						Not friendly for disable students (doors too narrow for a wheelchair to fit, or a medical equipment).	
6	Entry to toilet building	\boxtimes				1	1no. swing	door.
7	Exit to toilet building	\boxtimes				1	1no. swing	door.
8	Menstrual Hygiene facilities	\boxtimes				1		trual hygiene bin. Kit Admin. Office.
9	Students to WASH ratio	Toilet taps taps at wa (T1), 1no.t hand wash 1no. tap a back of the	sh point ap at n basin, t the	Male	n/a	Fer	nale	106: 1

- Toilet units for only female located at ground level of classroom building of adjacent school, Tacirua Primary School.
 Teachers share 1no. water closet. 5
- Each student water closet cubicle measured to be 1.6m long by 1.0m wide. All water closets are optional and well
 maintained by School committee. All cubicles have swing timber doors on hinges. Shower heads provided inside
 water closet cubicle. Whole floor provided with tiles. Only cubicles have mid height wall tiles.
- One separate shower cubicle for the female toilet.
- PVC drainage and sewer pipe visible.
- 1no. Hand wash basin and 1no. menstrual hygiene bin.

 $^{^{\}rm 17}$ Good - No additional works / intervention required

¹⁸ Fair - Remedial works required – min CAT 3 standard

¹⁹ Poor - Demolition and replace with new - min CAT 4 standard

²⁰ Type of structure - Timber/concrete/steel

²¹ Count - Used for identifying number of toilet bays and menstrual hygiene facilities



• Refer to drone imagery on page 7 for location of building, toilets, taps, water storage, etc.

Recommendations

- Some cubicle doors to have locking system device readjusted or replaced for the female toilets.
- School require a new ablution block and hand wash points to cater for all students. School management prepared a stagger recess and lunch time for different Grades to avoid overcrowding at toilets and taps. Classrooms have hand wash basin located at walkway and classroom corridor.



f) TOILET BLOCKS (MALE) – WC2

Building Index	WC2 – TOILET BLOCK (MALE	E ONLY) Year built: 2023 (Age: 1 year old)									
Туре:	Boys Toilet: 4no. wa	iter closet	1no. show	er 1no. ι	ırinal		No. of L	_evels: 1			
Dimensions	Length (m): 6.0		Width (m	ı): 3.0		Height	ight (m): 2.5 (up to eaves)				
		Exis	sting State	of Buildir	ng						
REF. No.	Building Component	Good ²²	Fair ²³	Poor ²⁴	Structure Type ²⁵	Count ²⁶		Comments			
1	Toilet Bays – male	\boxtimes			Concrete	5	Regular maintenance and cleaning required.				
2	Toilet Bays – female	n/a			n/a	n/a	n/a				
3	Toilet Partition between boys and girls.	\boxtimes			Concrete	4	Block wall up top of door height				
4	Shower bay					1	1no. separate cubicle for shower. No shower head.				
5	Toilet Bays – accessible						Not friendly for disable students (doors too narrow for a wheelchair to fit, or a medical equipment)				
6	Entry to toilet building	\boxtimes					1no. swin	•			
7	Exit to toilet building	\boxtimes					1no. swing door.				
8	Menstrual Hygiene facilities	n/a				n/a	n/a				
9	Students to WASH ratio	Toilet taps at the back girls abluti (WC1) and taps at wa	k of the on block d 3 No. of	Male	96:1	Fer	nale	n/a			

Comments

- Standalone Toilet Block for only male located at ground level of classroom building of adjacent school, Tacirua Primary School. Teachers share 1no. water closet. Students at building B2 and B3 will require to walk a distance to use the WASH facilities.
- Each student water closet cubicle measured to be 1.6m long by 1.0m wide. All water closets are optional and well
 maintained by School committee. All cubicles have swing timber doors on hinges. Shower heads not provided inside
 shower room cubicle. Whole floor provided with tiles. Only cubicles have mid height wall tiles.
- One separate shower cubicle provided for the male toilet with no shower head.
- No hand wash basin in the Boys toilet. Only the 3 Taps at general wash point (T2).
- No shower head at shower area.
- Refer to drone imagery on page 7 for location of building, toilets, taps, water storage, etc.

Recommendations

• Some cubicle doors to have locking system device readjusted or replaced for the male toilets.

 $^{^{\}rm 22}$ Good - No additional works / intervention required

²³ Fair - Remedial works required – min CAT 3 standard

²⁴ Poor - Demolition and replace with new - min CAT 4 standard

²⁵ Type of structure - Timber/concrete/steel

²⁶ Count - Used for identifying number of toilet bays and menstrual hygiene facilities



 School require a new ablution block and hand wash points to cater for all students. School management prepared a stagger recess and lunch time for different Grades to avoid overcrowding at toilets and taps. Classrooms have hand wash basin located at walkway and classroom corridor.





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PHOTOGRAPH NO 7 - TOILET (WC2)

PHOTOGRAPH NO 8 - TAPS (T3)

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8) PHOTOGRAPHIC REPORT – TOILET BLOCKS (FEMALE) WC1



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INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS 22403058 JEREMIAH RAIBEVU COLLEGE Page **21** of **23** Prepared by **AM** Revision No. A



9) PHOTOGRAPHIC REPORT – TOILET BLOCKS (MALE) WC2



PROJECT NAME: PROJECT NUMBER: SCHOOL NAME: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS 22403058 JEREMIAH RAIBEVU COLLEGE Page **22** of **23** Prepared by **AM** Revision No. A



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		
	Fair - some classrooms are accommodating students above capacity.	24 to 31	24
	Criteria Item Score		24.0
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%)		
	Fair - school toilet facilities are not maintained well and the physical infrastructure may need repairs or remedial work due to causing moderate distrubances to the end users.	6 to 7.9	7
	Criteria Item Score		12.0
3	PART C - CONDITION OF INFRASTRUCTURE (20%) Building structure and condition of walls, floors, ceilings, overall structural integrity (10%)		
	Poor - all building structures need remedial work to improve structural integrity and condition.	8 to 10	8
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		16.0
	PART D - DISABILITY ACCESSIBILITY (10%) Accessibility features such as the presence of existing ramps, handrails, accessible toilets etc		
4	Good - most school buildings have accessible features, however some facilities are not currently accessible.	01 5 0	
		0 to 5.9	0
	Criteria Item Score		0.0
5	PART E - DISASTER RESILIENCE (10%) Presence and quality of measures for disaster resilience of buildings including structural measures, cyclone shutters and fire safety systems		
	Fair - some school building structures are not resilient to natural disasters and do not have safety systems in place.	6 to 7.9	7
	Criteria Item Score		7.0
	Criteria Item Score TOTAL CRITERIA SCORE		7.0

Appendix C – Land Available for Expansion



NO LOCATION OR LAND AVAILABLE FOR EXPANSION

SCHOOL BOARD & TRUSTEES ARE STILL IN TALKS WITH ITLTB ON A PIECE OF LAND WHERE THE SCHOOL CAN BE RELOCATED.



NRW MACALLAN (FIJI) LTD CONSULTING ENGINEERS

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