INFRASTRUCTURE ASSESSMENT AUDIT FOR SUVA – NAUSORI URBAN SCHOOLS

SARASWATI PRIMARY SCHOOL (REG 1863)

SUMMARY REPORT

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1) INSPECTION SUMMARY

School Inspection Summary	
School name:	SARASWATI PRIMARY SCHOOL
Overall condition state:	GOOD

Key recommendations:

- Overcrowding – 3 new classrooms required based on FNBC standards
- Overcrowding – 0 new classrooms required based on recommended sizing (1.5m^2)
- WASH – Maintenance of ablution blocks required
- 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:

- Cracks on walls
- Missing ramps
- Rusted roof cladding, gutter and roofing nails

Aerial view of school

General view of school

School type:	**Primary**	✓	**Secondary**		**Year levels**	1,2,3,4,5,6,7,8
School address:	DILKUSHA, NAUSORI					
School enrolment and staff figures	**No. of Students (Male)**	**No. of Students (Female)**	**No. of Students with Disability**	**No. of Teachers (Male)**	**No. of Teachers (Female)**	
	101	106	0	1	8	
School building arrangement	TOTAL NUMBER OF BUILDINGS: 2 **B1**1 STOREY /**B2**– 1 STOREY					
Local government area:						
Date of inspection:	04TH SEPTEMBER, 2024					
Inspection team:	KUNAAL NAND (KN) HENDRY TABULAWAKI (HT) CLIFFTON RAITAVOWAI (CR) MARIA LUTUA (ML)					
Data collection methods	Visual inspection	✓	Onsite measurement	✓		
	Interviews with school staff	✓	Drone / aerial imagery	✓		
	Survey form	✓	Desktop research	✓		
	Other:					
Assumptions:	NONE					
Limitations:	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^2 per student.

The results of the assessment are based on the recommended sizing (1.5m^2), according to 2024 data, an additional 0 classrooms are required for Sarawati Primary School.

Year	Stream	Number of students	Current number of classrooms	Number of extra classrooms required based on FNBC on 2024 data
1	101	20	1	0
2	201	23	1	0
3	301	28	1	0
4	401	22	1	0
5	501	32	1	0
6	601	26	1	0
7	701	29	1	0
8	801	27	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	Type	Room List
B1	55.5	8.60	6.0	2	Double Storey concrete structure with cladding on timber framed roof structure and masonry external walls	**- Ground Floor** – Classrooms / Administration Office **- First Floor** – Classrooms / ECE
B2	8.2	8.6	3.0	1	Concrete structure with cladding on timber framed roof structure	Male/Female – Toilet Block

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	Good
Safety compliance	Fire safety, electrical safety,	Fair
Disability	Accessibility	Poor
Ventilation and lighting	Ventilations, Natural Lighting, Artificial Lighting.	Fair

Observations on Structural Elements

- **Walls and Ceiling** – Cracks on concrete observed. There was water leak marks in the 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
- **Earthquake –** The three-storey main concrete building indicates resistance to earthquake based on suitable column, beam and slab size and design.
- **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

- **Ventilation –** HVAC system (Heating, Ventilation, and Air Conditioning) is centrally located in the school, in particular, the 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

Saraswati Primary School has 1 block with toilet facilities. The facility have some minor defects such as:

- The cubicle doors were damaged.
- Some toilet seat pans were missing.

The WASH facilities were well maintain

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?
B2	All Years	4	4	27	26	1	1

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?
B2	All Years	1	1	106	101	4	4

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			
B2	All Years	4	52	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.
- Location: The school is location allows 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.

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) were not wheelchair-accessible or have grab bars and sinks at an appropriate height.
   - Common Areas: the cafeterias and outdoor spaces were 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.

7) SUMMARY OF FINDINGS

The following summarizes the individual characteristics assessed during the Suva-Nausori school audit for Saraswati 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 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 200 roll/8classrooms of 28 students.	- FNBC 1990 requires classroom occupancy to have 2m^2 per person. Based on that, the required roll per classroom was calculated.	- 0/8 classrooms were accommodating more roll than required. - Given the recommended sizing (1.5m^2), about 0 extra classrooms are required to address overcrowding in school.
Water Sanitation Hygiene (WASH) facilities	Toilets (students: Cubicle) - Boys – 30:1 - Girls – 23:1 Taps (students: tap) - Students – 20:1 - Menstrual Hygiene was present in every female washroom block	Toilets Ratio (students: Cubicle) - Boys – 30:1 - Girls – 20:1 Taps Ratio (students: tap) - Students – **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 was in par with the FNBC 1990 ratio. This may hinder later on with growing population. - The tap ratio was in par with the FNBC indicating extra taps are not required in the school. - school require maintenance of rusting pipes and algae buildup in WASH facilities.
Disaster Resilience Assessment	- columns, beams, slabs had hairline cracks. - All roof had truss roof frames.	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.

	- The windows only have burglar shutters at some sections. - Roof cladding is rusted at B2 toilet block and partially at patches across B2 and B1A - roofing nails show rusting.		
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. - Doors and Door size – minimum 0.9m. - Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)	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 - Inclusive seating areas and pathways - Proper lighting - Contrasting floor materials

8) RECOMMENDATIONS

- In order to comply with the FNBC, the school will require the following:
  - Classrooms: An additional 8 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 the current number of students is required but will require additional cubicles for the growing number of students in the future. The toilet blocks need to be 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.

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) COMPLIANCE

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

- **MEHA Compliance:** Compliant
- **WASH Facilities:** The school has ample taps.
- **Land Availability:** There is sufficient land for additional blocks .
- **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 – Sarswati Primary School 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

SARASWATI PRIMARY SCHOOL (REG 1863)

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
FNBC	Fiji's National Building Code 1990
NDMO	National Disaster Management Office
EFL	Energy Fiji Limited

1) SCHOOL BACKGROUND

Saraswati Primary School, located in Dilkusha in Nausori, was established in 1998. The school is managed by Shree Saraswati Ramayan Mandali. It consists of children from several cultural background. The school strictly follows the Santan Dharam cultural values and beliefs to maintain the identity and still good values in the children.

The school was established by founders of the solely financed by the school controlling authority.

TABLE 1: SCHOOL DETAILS

NAME OF SCHOOL	SARASWATI PRIMARY SCHOOL
SCHOOL REGISTRATION NUMBER	1863
SCHOOL LOCATION	DILKUSHA, NAUSORI
SCHOOL TYPE	PRIMARY SCHOOL
FEEDER SCHOOL	N/A
DATE OF INSPECTION	04th SEPTEMBER, 2024
MILESTONE	(49 / 86 SCHOOLS)
INSPECTED BY (TEAM 2)	KUNAL NAND (KN)
	HENDRY TABULAWAKI (HT)
	CLIFFTON RAITAVOWAI (CR)
	MARIA LUTUA (ML)

TABLE 2: SCHOOL ENROLMENT FIGURES

Year of Enrolment	Number of Students			Students with Disability	Number of Teachers			Comments
	Male	Female	Total		Male	Female	Total	
2024	101	106	207	N/A	1	8	9	• Classrooms are well maintained. • Student to stream average ratio is 28 :1 for 2024 school calendar. • WASH Facility Ratio: 25:1
2023	118	113	231	N/A	1	8	9	
2022	120	97	217	N/A	1	7	8	
2021	115	101	216	N/A	2	7	9	
2020	116	108	224	N/A	2	6	8	
2019	98	105	203	N/A	2	6	8	

TABLE 3: 2024 CLASSROOM ENROLLMENT DETAILS

GRADE	CLASS NUMBER	TOTAL STUDENT ROLL	NUMBER OF TEACHERS	DIMENSIONS (m)		ACCESS WAY COUNT		OVERCROWDING
				LENGTH	WIDTH	NO. OF DOORS	NO. OF WINDOWS	
1	1	20	1	7.2	5.8	1	12	☒YES ☐NO
2	2	23	1	6.9	5.8	1	12	☒YES ☐NO
3	3	28	1	9.8	5.8	1	16	☒YES ☐NO
4	4	22	1	9.7	5.8	1	16	☐YES ☐NO
5	5	32	1	9.8	5.8	1	16	☐YES ☐NO
6	6	26	1	9.5	5.8	1	16	☐YES ☐NO
7	7	29	1	9.6	5.8	2	16	☐YES ☐NO
8	8	27	1	9.7	5.8	2	16	☐YES ☐NO
								☐YES ☐NO
ECE		17		9.9	5.8	2	16	☐YES ☐NO
								☐YES ☐NO
								☐YES ☐NO
								☐YES ☐NO
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								☐YES ☐NO
								☐YES ☐NO
								☐YES ☐NO
								☐YES ☐NO
								☐YES ☐NO

2) SCHOOL SITE PLAN (DRONE IMAGERY OF SCHOOL)

AERIAL VIEW			
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

3) VISUAL INSPECTION RESULTS

a) EXISTING BUILDING INFORMATION

TABLE 4: EXISTING BUILDING INFORMATION

Building Index	**B1: CLASSROOM BULDING**				**Year built: 1997 (Age: 27 years old)**	
Type:	**Double Concrete Structure that consists timber framed roof structure.** ➢ **Classrooms/ECE**				**No. of Levels: 2**	
Dimensions	**Length (m): 55.5**	**Width (m): 8.60**			**Height (m): 6.3 (up to apex)**	
Existing State of Building						
REF. No.	**Building Component**	**Good[1]**	**Fair[2]**	**Poor[3]**	**Structure Type [4]**	**Comments**
1	Roof Lining		✓		Corrugated Roofing Iron	Surface Rusting
2	Roof Structure		✓		Timber Truss	Multigrips /Bolts Truss Connection
3	Walls		✓		Masonry	Plastered painted finish
4	Columns		✓		Steel Pipe	75mm dia. CHS Walkway Post
5	Beams		✓		Concrete	Painted Plastered finish
6	Floor		✓		Concrete	Tiles / Rug Finish
7	Handrails		N/A		N/A	N/A
8	Walkway(s)		✓		Concrete	2.20m Walkway Width
9	Services – water supply		✓			WAF
10	Available taps for general use		✓			2- Taps / Student – tap ratio = 35: 1
11	Services – electricity			✓		EFL
12	Services – communication (internet)		✓			None
13	Drainage		✓			Open 'V' drains for Stormwater Discharge

Comments

Visual defects

- Surface cracks are visible along the walk-way floor slabs
- Guttering & Downpipe not fixed properly on brackets

[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

TABLE 5: EXISTING BUILDING INFORMATION

Building Index	B2: TOILET BUILDING				Year built: 1997(Age: 27yrs)	
Type:	Single Storey Timber Frame Structure that consists timber framed roof structure. ➢ Male/Female Toilets					No. of Levels: 1
Dimensions	Length (m): 8.20		Width (m): 8.60		Height (m): 3.6 (up to eaves)	
Existing State of Building						
REF. No.	Building Component	Good[5]	Fair [6]	Poor[7]	Structure Type [8]	Comments
1	Roof Lining		✓		Corrugated Roofing Iron	Surface Rusting
2	Roof Structure		✓		Not Visible	Ceiling was concealed with no ceiling access
3	Walls		✓		Masonry / Timber	Plastered painted finish
4	Columns		✓		Steel Pipe	75mm dia. CHS Walkway Post
5	Beams		✓		Concrete	Painted Plastered finish
6	Floor		✓		Concrete	Tiles Finish
7	Handrails		✓		Timber	Timber handrails fixed on steel post
8	Walkway(s)		✓		Concrete	2.80m Walkway Width
9	Services – water supply		✓			WAF and Tank back-up Storage for toilet use.
10	Available taps for general use		✓			4- Taps / Student – tap ratio = 40: 1
11	Services – electricity			✓		EFL
12	Services – communication (internet)		✓			Wireless and LAN connection
13	Drainage		✓			Open drains for Stormwater Discharge/ Sump for Hand Basin Water to discharge

Comments

Visual defects

- Surface cracks are visible along the walk-way floor slabs
- Guttering & Downpipe not fixed properly on brackets
- Rotten Fascia Board

[5] 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

4) PHOTOGRAPHIC REPORT

Client:	**TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD**	**School Name:**	**SARSWATI PRIMARY SCHOOL**
Project:	**INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.**	**Building Index:**	**B1**

PHOTOGRAPH No. 1: FRONT

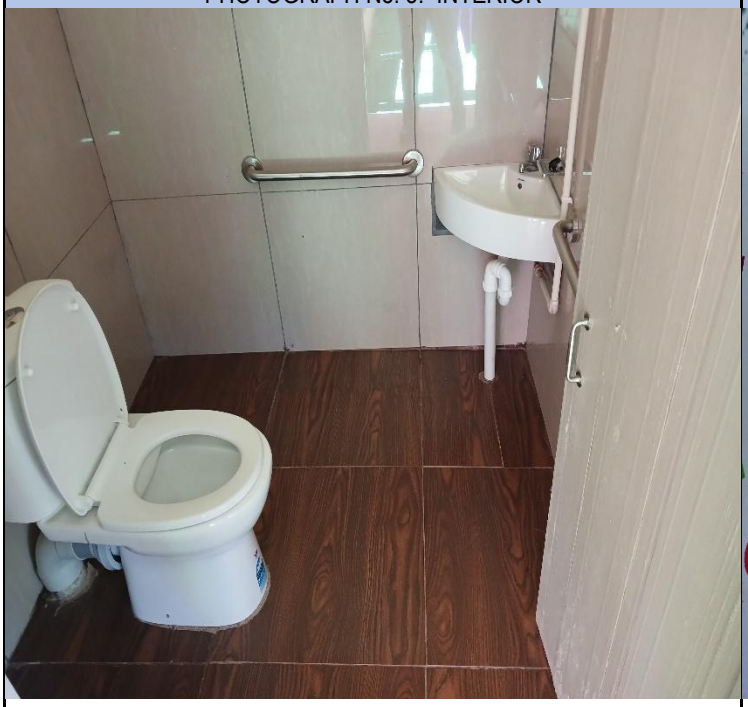
PHOTOGRAPH No. 2: LEFT SIDE

PHOTOGRAPH No. 3: BACK

PHOTOGRAPH No. 4: RIGHT SIDE

PHOTOGRAPH No. 5: INTERIOR

PHOTOGRAPH No. 6: ROOF SPACE



PHOTOGRAPH NO 7 - TOILETS

PHOTOGRAPH NO 8 - TAPS

Client:	**TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD**	**School Name:**	**SARASWATI PRIMARY SCHOOL**
Project:	**INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL.**	**Building Index:**	**B2**

PHOTOGRAPH No. 1: FRONT

PHOTOGRAPH No. 2: LEFT SIDE

PHOTOGRAPH No. 3: BACK

PHOTOGRAPH No. 4: RIGHT SIDE

PHOTOGRAPH No. 5: INTERIOR

No pictures were taken due to the lack of roof access.

PHOTOGRAPH No. 6: ROOF SPACE

PHOTOGRAPH NO 7 - TOILETS

PHOTOGRAPH NO 8 - TAPS

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**		
	Good - zero to afew classrooms are accommodating students above capacity.	0 to 23	**15**
	Criteria Item Score		**15.0**
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%)**		
	Good - generally school toilet facilities are maintanined well with minimal disturbances from the physical infrastructure to the end users.	0 to 5.9	**5**
	Criteria Item Score		**10.0**
3	**PART C - CONDITION OF INFRASTRUCTURE (20%)** **Building structure and condition of walls, floors, ceilings, overall structural integrity (10%)**		
	Good - most building structures are in good condition, however some may need repairs to improve structural integrity.	0 to 5.9	**5**
3.1	**Maintenance and assessment of the upkeep of facilities including painting and repairs (10%)**		
	Good - generally school facilities are maintanined well with minimal disturbances from the physical infrastructure to the end users.	0 to 5.9	**5**
	Criteria Item Score		**10.0**
4	**PART D - DISABILITY ACCESSIBILITY (10%)** **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	**10**
	Criteria Item Score		**10.0**
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**		
	Poor - most or all school building structures are not resilient to natural disasters and do not have safety systems in place.	8 to 10	**9**
	Criteria Item Score		**9.0**
	TOTAL CRITERIA SCORE		**54.0**

Appendix C – Land Available for Expansion

Australian Government
Department of Foreign Affairs and Trade

TETRA TECH

Disasters DO Happen
Are YOU Prepared?

NRW MACALLAN (FIJI) LTD
CONSULTING ENGINEERS

NRW MACALLAN (FIJI) LTD
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