

INFRASTRUCTURE ASSESSMENT AUDIT FOR SUVA – NAUSORI URBAN SCHOOLS

LELEAN MEMORIAL SCHOOL – REG 1826

SUMMARY REPORT



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1) INSPECTION SUMMARY

School Inspection Summary	
School name:	LELEAN MEMORIAL SCHOOL
Overall condition state:	POOR
Key recommendations:	
<ul style="list-style-type: none"> - Overcrowding – 20 new classrooms required based on FNBC standards - Overcrowding – 10 new classrooms required based on recommended sizing (1.5m²) - WASH – 3 new female toilet cubicles required and 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:	
<p>Major defects were noted as follows:</p> <ul style="list-style-type: none"> • Wash facilities in poor condition (all ablution) • Severe concrete cracks on floor slabs • Missing ramps (All buildings) • Inadequate stairway width. (all buildings) 	

Aerial view of school



General view of school



School type:	Primary		Secondary	✓	Year levels	9, 10, 11, 12, 13
School address:	KINGS ROAD DAVUILEVU, 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)	
	802	575	0	29	24	
School building arrangement	TOTAL NUMBER OF BUILDINGS: 7 B1 – 2 STOREYS / B2 – 2 STOREYS / B3 – 2 STOREYS / B4 – 2 STOREYS / B5 – SINGLE STOREY / B6 – SINGLE STOREY / B7 – 2 STOREYS					
Local government area:	SUVA					
Date of inspection:	5 TH SEPTEMBER, 2024					
Inspection team:	ANASEINI LEDUA (AL) SHANEEL PRASAD (SP) YASH VINEET MUDALIAR (YM) DURGESH PAL (DP) RAHUL PAL (RP)					
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 m² per student.

The results of the assessment are based on the recommended sizing (1.5m²), according to 2024 data, an additional 10 classrooms are required for Lelean Memorial School to achieve compliance with FNBC standards.

Year	Stream	Number of students	Current number of classrooms	Number of extra classrooms required based on FNBC on 2024 data
9	9A	58	6	3
	9B	58		
	9C	59		
	9D	62		
	9D	54		
	9F	58		
10	10A	52	6	2
	10B	52		
	10C	65		
	10D	61		
	10E	43		
	10F	37		
11	11A	52	5	2
	11B	52		
	11C	49		
	11D	68		
	11E	41		
12	12A	37	6	2
	12B	49		

	12C	48		
	12D	77		
	12E	34		
	12F	53		
13	13A	53	4	1
	13B	31		
	13C	22		
	13D	52		

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
B7	23.10	7.80	9.40	3	Three storey concrete structure that consists of concrete floor slab, concrete block wall, concrete columns and beams with gable roof structure	Ground Floor Classrooms Washrooms First Floor Classrooms Top Floor Classrooms
B2	31.30	7.20	6.40	2	Double storey concrete structure that consists of concrete floor slab, concrete block wall, concrete columns and beams with gable roof structure	Ground Floor Classrooms Washrooms First Floor Library Chapel Classrooms
B3	15.00	7.60	6.40	2	Double storey concrete structure that consists of concrete floor slab, concrete block wall, with gable roof structure	Ground Floor Classrooms First Floor Office Admin
B4	30.40	7.20	6.40	2	Double storey concrete structure that consists of concrete floor slab, concrete block wall, concrete columns and beams with gable roof structure	Ground Floor Classrooms First Floor Office Admin Classrooms
B5	39.90	7.60	2.6	1	Single storey concrete structure that consists of concrete floor slab, concrete block wall with gable structure	Staff rooms Classrooms Canteen Washrooms
B6	21.50	7.60	2.60	1	Single storey concrete structure that consists of concrete floor slab, concrete block wall with gable roof structure	Classrooms
B7	23.30	7.60	6.40	2	Double storey concrete structure that consists of concrete floor slab, concrete block wall, with gable roof structure	Classrooms
B8	8.60	8.10	2.60	1	Single storey concrete structure that consists of concrete floor slab, concrete block wall with gable roof structure	Washrooms

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.	Poor

Observations on Structural Elements

- **Walls and Ceiling.** There were signs of wear and tear on walls. Damage ceiling boards
- **Floors and Foundation** – the floor and foundation for the entire school is found to be stable. There were visible of severe cracks and uneven surface. However, the floor is mostly covered with tiles.
- **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/poor 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, 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

Lelean Memorial School has 4 blocks with toilet facilities. The facilities have some minor defects such as:

- The cubicle doors were damaged.

- Damaged and missing tiles.
- Damage system
- Poor drainage
- Damage doors/partition walls

The WASH facilities were clean and well maintained. The girls toilet cubicles does not comply with the FNBC for toilet numbers.

TOILET CUBICLE(S)	No. of Cubicles		Toilet Ratio (1 cubicle: students)		Compliance of Student to Toilet Cubicle Ratio (FNBC).	
	Female	Male	Female	Male	Female Requirement (1:20) Extra Toilets?	Male Requirement (1:30) Extra Toilets?
B1 – B7	17	0	34	0	3	0
B1 – B7	0	17	0	48	0	0

HAND BASINS IN THE TOILET	No. of Hand Basins		Handbasin Ratio 1:		Compliance of Student to Hand Basin Ratio (FNBC).	
	Female	Male	Female	Male	Female Requirement (1:60) Extra Handbasins?	Male Requirement (1:60) Extra Handbasins?
WC	14	10	56	80	0	0

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?
B1 – B7	14	99	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's location makes it simple to go to relief services and main roads.

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.
- 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 Lelean Memorial School:

Categories of Assessment	Existing Condition / State	Required as per Standards	Gaps Observed
Existing Infrastructure Condition	<ul style="list-style-type: none"> - 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. 	<ul style="list-style-type: none"> - 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. 	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - The classrooms are accommodating an average of 1377 roll/ 27 classrooms of 40 students. 	<ul style="list-style-type: none"> - FNBC 1990 requires classroom occupancy to have 2m² per person. Based on that, the required roll per classroom was calculated. 	<ul style="list-style-type: none"> - 23/27 classrooms were accommodating more roll than required. - Given the recommended sizing (1.5m²), about 10 extra classrooms are required to address overcrowding in school.
Water Sanitation Hygiene (WASH) facilities	<p>Toilets (students: Cubicle)</p> <ul style="list-style-type: none"> - Boys – 48:1 (17 cubicles) - Girls – 34:1 (17 cubicles) <p>Taps (students: tap)</p> <ul style="list-style-type: none"> - Students – 99:1 (14 taps) <p>- Menstrual Hygiene was present in female washroom block</p>	<p>Toilets Ratio (students: Cubicle)</p> <ul style="list-style-type: none"> - Boys – 30:1 (9 cubicles) - Girls – 20:1 (31 cubicles) <p>Taps Ratio (students: tap)</p> <ul style="list-style-type: none"> - Students – 60:1 (15 taps) <p>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.</p> <ul style="list-style-type: none"> - Menstrual Hygiene to be present in every female washroom block 	<ul style="list-style-type: none"> - The girls toilet ratio exceeded the FNBC requirement indicating not enough toilet cubicles are in the school. Given the roll of students, an extra 3 girls toilet cubicles is required
Disaster Resilience Assessment	<ul style="list-style-type: none"> - Columns, beams, slabs. - All roof had timber/steel roof frames. - The windows only have rusted wire mesh shutters at some sections. 	<p>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.</p>	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> -Handrails partially are secured and well maintained. - Stairway – average 1.8m width. 	<p>The following are requirements from Fiji Disabled People's Federation Access Audit Tool</p> <ul style="list-style-type: none"> - 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. 	<p>The following facilities are missing.</p> <ul style="list-style-type: none"> - 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

		- Clearance required of 1.2m and tread width of minimum 310mm. (National Building Code Table D2.1)	
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8) RECOMMENDATIONS

- In order to comply with the FNBC, the school will require the following:
 - Classrooms: An additional 20 new classrooms. This expansion aims to accommodate the growing number of students and provide them with an enhanced learning environment.
- WASH Facilities: An additional 3 cubicles for girls is required, equipped with up-to-date WASH facilities (handbasins). 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.
- 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 Lelean Memorial School, the following conclusions were drawn:

- **MEHA Compliance:** Compliant
- **WASH Facilities:** The school has ample taps. Additional 3 girls toilet cubicles required to comply with FNBC 1990.
- **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 – Lelean Memorial 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

LELEAN MEMORIAL SCHOOL – REG 1826

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
NFA	National Fire Authority
WAF	Water Authority of Fiji
NBC	National Building Code
NDMO	National Disaster Management Office
EFL	Energy Fiji Limited

1) INTRODUCTION

NRW Macallan (Fiji) Limited has been tasked by Tetra Tech International Development PTY LTD to conduct a comprehensive visual inspection of 86 primary and secondary schools along the Suva and Nausori Corridor. The scope of the inspection includes several key aspects:

- 1) Data Gathering: Gathering information related to school administration and organization, such as school history and enrolment figures.
- 2) Services Connectivity Verification: Checking the connectivity of essential services including electricity, water, sewerage, and internet.
- 3) Structural Adequacy: Assessing the structural integrity of the buildings within the school premises, i.e., classroom, toilet blocks, etc, configuration and space requirements.
- 4) Safety Inspections: Ensuring compliance with Occupational Health and Safety (OHS) standards and Fire Safety measures on-site.
- 5) Compliance Review: Reviewing gathered information to ensure compliance with various regulatory bodies and standards:
 - Ministry of Education (MOE) Compliance
 - National Fire Authority (NFA) Compliance
 - Water Authority of Fiji (WAF) Compliance
 - National Building Code (NBC) Compliance
 - National Disaster Management Office (NDMO) Compliance
 - Energy Fiji Limited (EFL) Compliance

This particular report documents findings from the inspection conducted at Lelean Memorial School, utilizing the specified number of buildings outlined in the contract as a reference point for the inspection.

The purpose of this comprehensive inspection is likely to ensure that these schools meet regulatory and safety standards and to provide recommendations for any necessary improvements to infrastructure and classroom overcrowding.

2) SCHOOL BACKGROUND

Lelean Memorial School was established in 1943 and run by the Methodist Church of Fiji and Rotuma. It is co-located at the Davuilevu Methodist compound with the Davuilevu Theological College and the Young People's Department, which runs training for Methodist catechists. The school caters for students in the Tailevu, Naitasiri and Rewa provinces but it also accepts those who apply from other parts of Fiji.

Sports – Lelean has won the coveted Deans Trophy for the FSSRU under 19 competition, 14 times and drawn five times since it entered the competition in the mid-1940s. It was the first school to have won all the Fiji Secondary Schools' Rugby union (FSSRU) Competition trophies on offer in 1952.

For more information regarding the school, please contact Mr. Mohammed Feroz Khan at contact number +679 347 8722 by e-mail: at info@leleanmemorialschool.com

Table 1: SCHOOL DETAILS

NAME OF SCHOOL	LELEAN MEMORIAL SCHOOL
SCHOOL REGISTRATION NUMBER	1826
SCHOOL LOCATION	KINGS ROAD DAVUILEVU, NAUSORI
SCHOOL TYPE	SECONDARY SCHOOL
FEEDER SCHOOL	ZONING
MILESTONE NO. 2	(80 / 86 SCHOOLS)
DATE OF INSPECTION	5 TH SEPTEMBER, 2024
INSPECTED BY (TEAM 1)	ANASEINI RAVULALA (AR)
	SHANEEL PRASAD (SP)
	DURGESH PAL (DP)

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	802	575	1377	0	29	24	53	<ul style="list-style-type: none"> No. 27 classrooms Student to stream average ratio is 40:1 for 2024 school calendar. WASH ratio Male 48 : 1 Female 34:1
2023	767	560	1288	0	18	28	46	
2022	598	502	1053	0	18	31	49	
2021	611	554	1111	0	13	34	47	
2020	505	504	970	0	16	33	49	
2019	574	495	1021	0	18	33	51	

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	
9	9A	58	2	7.80	7.60	1	20	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
9	9B	58	2	7.80	7.60	1	26	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
9	9C	59	2	7.80	7.60	1	20	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
9	9D	62	1	7.80	7.60	1	20	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
9	9D	54	2	7.80	7.60	1	20	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
9	9F	58	2	7.80	7.60	1	20	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
10	10A	52	2	8.50	6.40	1	18	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
10	10B	52	2	8.85	5.90	1	18	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
10	10C	65	2	11.30	5.90	1	18	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
10	10D	61	2	11.05	5.90	1	18	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
10	10E	43	2	7.50	5.90	1	18	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
10	10F	37	2	7.50	5.90	1	18	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
11	11A	52	2	7.80	7.60	1	20	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
11	11B	52	2	7.80	7.60	1	26	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
11	11C	49	2	7.70	7.20	1	12	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
11	11D	68	2	7.70	7.20	1	12	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
11	11E	41	2	7.70	7.20	1	12	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
12	12A	37	2	7.60	7.50	1	14	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
12	12B	49	2	7.60	7.50	1	14	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
12	12C	48	2	7.60	7.30	1	16	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
12	12D	77	2	7.60	7.30	1	12	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
12	12E	34	2	7.60	7.30	1	14	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
12	12F	53	2	7.60	7.30	1	14	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
13	13A	53	2	7.60	7.30	1	14	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
13	13B	31	2	7.60	7.30	1	14	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
13	13C	22	2	7.60	7.30	1	14	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
13	13D	52	2	7.60	7.30	1	14	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

3) SCHOOL SITE PLAN

AERIAL VIEW



LEGEND			
B#	BUILDINGS	DR#	PONDS/CREEKS/DRAINAGE
PG#	PLAYGROUND	WW	WALKWAYS
WC#	TOILETS	CP	CAR PARK AREA
SEP	SEPTIC TANK	OA	OFFICE ADMINISTRATION
AA	ASSEMBLY AREA	WW	WALKWAY

4. VISUAL INSPECTION RESULTS

EXISTING BUILDING INFORMATION

BUILDING 1:

CLASSROOMS:

Building Index	CLASSROOMS				Year Built:	(Age: years old)
Type:	Concrete building – Three storey, concrete floor slab, concrete block walls, concrete columns with gable roofs structure and iron roof sheets				No. of Levels: 3	
Dimensions	Length (m): 23.10		Width (m): 7.80		Height (m): 9.40	
Existing State of Building						
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴	Comments
1	Roof Lining	✓			Metal cladding	Roof to receive new paint. No leak.
2	Roof Structure		✓		Timber frame	Concealed
3	Walls		✓		Concrete	Minor cracks
4	Columns		✓		Concrete	Minor concrete crack-lines
5	Beams		✓		Concrete	Good condition
6	Floor		✓		Concrete	Non-slippery tiles, severe concrete cracks and damage tiles
7	Handrails		✓		Steel	Safe height. Will require secure fixing at certain area
8	Walkway(s)		✓		Concrete	Space Ok
9	Services – water supply	✓				OK
10	Available taps for general use	✓				# of taps: Student – Tap ratio =
11	Services – electricity		✓			Not all lights and fans are working
12	Services – communication (internet)	✓				
13	Drainage		✓			
Comments <ul style="list-style-type: none"> • <u>Floor</u> Surface cracks are visible along the floor slabs along the corridor and staircase of each levels. Severely damage tiles that will require replacing with new • Damage steel railings connection and floor level that will require upgrading to secure connection. • Missing gutters fastenings and damage downpipes • Missing louvre blades • Doors and windows functional • Cyclone shutters not provided to some of the exposed glazed areas in classrooms. However, the rest of the glazed area are covered with wire mesh. Require proper cyclone shutters and fastenings. 						

BUILDING 2:**CLASSROOMS / LIBRARY / CHAPEL / ABLUTION:**

Building Index	CLASSROOMS/LIBRARY/CHAPEL/ABLUTION				Year Built:	(Age: years old)
Type:	Concrete building – Double storey, concrete floor slab, concrete block walls, concrete columns with gable roofs structure and corrugated iron roof sheets				No. of Levels: 2	
Dimensions	Length (m): 31.3		Width (m): 7.20		Height (m): 6.40	
Existing State of Building						
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴	Comments
1	Roof Lining	✓			Metal cladding	Roof to receive new paint. No leak. Damage ceiling boards
2	Roof Structure		✓		Timber frame	Concealed
3	Walls		✓		Concrete	Minor cracks
4	Columns		✓		Concrete	Minor concrete crack-lines
5	Beams		✓		Concrete	Good condition
6	Floor		✓		Concrete	Non-slippery tiles, severe concrete cracks and damage tiles
7	Handrails		✓		Steel	Safe height. Will require secure fixing at certain area
8	Walkway(s)		✓		Concrete	Space Ok
9	Services – water supply	✓				OK
10	Available taps for general use	✓				# of taps: 3
						Student – Tap ratio =
11	Services – electricity		✓			Not all lights and fans are working
12	Services – communication (internet)	✓				
13	Drainage		✓			
Comments <ul style="list-style-type: none"> • <u>Floor</u> Surface cracks are visible along the floor slabs along the corridor and staircase of each levels. Severely damage tiles that will require replacing with new • Missing gutters fastenings and damage downpipes • Missing louvre blades • Doors and windows functional • No form of cyclone shutters for the exposed glazed areas of the building. 						

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

BUILDING 3:**CLASSROOMS / OFFICE ADMIN:**

Building Index	CLASSROOMS/OFFICE ADMIN				Year Built:	(Age: years old)
Type:	Concrete building – Double storey, concrete floor slab, concrete block walls, with gable roofs structure and iron roof sheets				No. of Levels: 2	
Dimensions	Length (m): 15.00		Width (m): 7.60		Height (m): 6.40	
Existing State of Building						
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴	Comments
1	Roof Lining	✓			Metal cladding	Roof to receive new paint. No leak.
2	Roof Structure		✓		Timber frame	Concealed
3	Walls		✓		Concrete	Minor cracks
4	Columns		✓		Concrete	Minor concrete crack-lines
5	Beams		✓		Concrete	Good condition
6	Floor		✓		Concrete	Non-slippery tiles, severe concrete cracks and damage tiles
7	Handrails		✓		Steel	Safe height. Will require secure fixing at certain area
8	Walkway(s)		✓		Concrete	Space Ok
9	Services – water supply	✓				OK
10	Available taps for general use	✓				# of taps:
						Student – Tap ratio =
11	Services – electricity		✓			Not all lights and fans are working
12	Services – communication (internet)	✓				
13	Drainage		✓			
Comments <ul style="list-style-type: none"> • <u>Floor</u> Surface cracks are visible along the floor slabs along the corridor and staircase of each levels. Severely damage tiles that will require replacing with new • Missing gutters fastenings and damage downpipes • Missing louvre blades • Doors and windows functional • No form of cyclone shutters for the exposed glazed areas of the building. 						

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

BUILDING 4:**CLASSROOMS**

Building Index	CLASSROOMS				Year Built:	(Age: years old)
Type:	Concrete building – Double storey, concrete floor slab, concrete block walls, concrete columns with gable roof structure and iron roof sheets				No. of Levels: 2	
Dimensions	Length (m): 30.40		Width (m): 7.30		Height (m): 6.40	
Existing State of Building						
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴	Comments
1	Roof Lining	✓			Metal cladding	Roof to receive new paint. No leak. Damage ceiling board
2	Roof Structure		✓		Timber frame	Concealed
3	Walls		✓		Concrete	Minor cracks
4	Columns		✓		Concrete	Minor concrete crack-lines
5	Beams		✓		Concrete	Good condition
6	Floor		✓		Concrete	Non-slippery tiles, severe concrete cracks and damage tiles
7	Handrails		✓		Steel	Safe height. Will require secure fixing at certain area
8	Walkway(s)		✓		Concrete	Space Ok
9	Services – water supply	✓				OK
10	Available taps for general use	✓				# of taps: 2
						Student – Tap ratio =
11	Services – electricity		✓			Not all lights and fans are working
12	Services – communication (internet)	✓				
13	Drainage		✓			
Comments <ul style="list-style-type: none"> • Floor Surface cracks are visible along the floor slabs along the corridor and staircase of each levels. Severely damage tiles that will require replacing with new • Missing gutters fastenings and damage downpipes • Missing louvre blades • Doors and windows functional • No form of cyclone shutters for the exposed glazed areas of the building. 						

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

PROJECT NAME: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS
PROJECT NUMBER: 22403058
SCHOOL NAME: LEAN MEMORIAL SCHOOL

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⁴ Type of structure - Timber/concrete/steel**BUILDING 5:****CLASSROOMS / STAFF ROOMS /CANTEEN /ABLUTION**

Building Index	CLASSROOMS/STAFFROOMS/CANTEEN/ABLUTION				Year Built:	(Age: years old)
Type:	Concrete building – Single storey, concrete floor slab, concrete block walls, steel columns and timber beams at walkway with gable roof structure and iron roof sheets				No. of Levels: 1	
Dimensions	Length (m): 39.90		Width (m): 7.60		Height (m): 2.60	
Existing State of Building						
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴	Comments
1	Roof Lining	✓			Metal cladding	Roof to receive new paint. No leak.
2	Roof Structure		✓		Timber frame	Concealed
3	Walls		✓		Concrete	Minor cracks
4	Columns		✓		Steel	Good condition
5	Beams		✓		Timber	Good condition
6	Floor		✓		Concrete	Non-slippery tiles
7	Handrails				N/A	
8	Walkway(s)		✓		Concrete	Space Ok
9	Services – water supply	✓				OK
10	Available taps for general use	✓				# of taps: 2
						Student – Tap ratio =
11	Services – electricity	✓				Not all lights and fans are working
12	Services – communication (internet)	✓				
13	Drainage	✓				
Comments <ul style="list-style-type: none"> • <u>Floor</u> Surface cracks are visible along the floor slabs along the corridor and staircase of each levels. Severely damage tiles that will require replacing with new • Missing gutters fastenings and damage downpipes • Missing louvre blades • Doors and windows functional • No form of cyclone shutters for the exposed glazed areas of the building. 						

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 standard⁴ Type of structure - Timber/concrete/steel**BUILDING 6:****CLASSROOMS**

Building Index	CLASSROOMS				Year Built:	(Age: years old)
Type:	Concrete building – Single storey, concrete floor slab, concrete block walls, with gable roof structure and iron roof sheets				No. of Levels: 1	
Dimensions	Length (m): 21.50		Width (m): 7.60		Height (m): 2.60	
Existing State of Building						
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴	Comments
1	Roof Lining	✓			Metal cladding	Roof to receive new paint. No leak. Damage ceiling board
2	Roof Structure		✓		Timber frame	Concealed
3	Walls		✓		Concrete	Minor cracks
4	Columns		✓		Steel	Minor concrete crack-lines
5	Beams		✓		Timber	Good condition
6	Floor		✓		Concrete	Non-slippery tiles, severe concrete cracks and damage tiles
7	Handrails				N/A	
8	Walkway(s)		✓		Concrete	Space Ok
9	Services – water supply	✓				OK
10	Available taps for general use	✓				# of taps: 1
						Student – Tap ratio =
11	Services – electricity	✓				Not all lights and fans are working
12	Services – communication (internet)	✓				
13	Drainage	✓				
Comments <ul style="list-style-type: none"> • <u>Floor</u> Surface cracks are visible along the floor slabs along the corridor and staircase of each levels. Severely damage tiles that will require replacing with new • Missing gutters fastenings and damage downpipes • Missing louvre blades • Doors and windows functional • No form of cyclone shutters for the exposed glazed areas of the building. 						

Good - No additional works / intervention required

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² Fair - Remedial works required – min CAT 3 standard³ Poor - Demolition and replace with new - min CAT 4 standard⁴ Type of structure - Timber/concrete/steel**BUILDING 7:****CLASSROOMS**

Building Index	CLASSROOMS				Year Built:	(Age: years old)
Type:	Concrete building – Double storey, concrete floor slab, concrete block walls, with gable roof structure and iron roof sheets. Buildings are attached together with common staircase				No. of Levels: 2	
Dimensions	Length (m): 25.30		Width (m): 7.60		Height (m): 6.40	
Existing State of Building						
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴	Comments
1	Roof Lining	✓			Metal cladding	Roof to receive new paint. No leak. Damage ceiling board
2	Roof Structure		✓		Timber frame	Concealed
3	Walls		✓		Concrete	Minor cracks
4	Columns					
5	Beams					
6	Floor		✓		Concrete	Bare surface. severe concrete cracks
7	Handrails				N/A	
8	Walkway(s)				N/A	
9	Services – water supply	✓				OK
10	Available taps for general use	✓				# of taps: 4
						Student – Tap ratio =
11	Services – electricity	✓				Not all lights and fans are working
12	Services – communication (internet)	✓				
13	Drainage	✓				
Comments						
<ul style="list-style-type: none"> • <u>Floor</u> Surface cracks are visible along the floor slabs along the corridor and staircase of each levels. • Missing gutters fastenings and damage downpipes • Missing louvre blades and missing timber window frame • Damage to doors • Exposed electricity wiring • Doors and windows functional • Wire mesh cyclone shutters provided for the exposed glazed area. This will require adequate cyclone shutters and fastening. 						

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

TOILET BLOCKS (BOYS & GIRLS)

Building Index		B7 – Students Male & Female Toilets.					
Type:		Concrete structure with concrete floor slab, concrete block wall and exposed timber gable roof structure				No. of Levels: 1	
Dimensions WC1		Length (m): 8.60		Width (m): 8.10		Height (m): 2.6	
Existing State of Building							
REF. No.	Building Component	Good ¹	Fair ²	Poor ³	Structure Type ⁴	Count ⁵	Comments
1	Roof lining		✓		Steel		Minor rusts on roof fastenings
2	Roof structure		✓		Timber		Exposed timber frame
3	Wall		✓		Concrete Timber		Good condition Timber interior wall
4	Columns/beams (where required)				N/A		
5	Floor		✓		Concrete		Fair conditions, all inside floor non-slip tiles.
6	Handrails				N/A		
7	Walkway				N/A		
8	Services - Water		✓				OK
9	Service - Electricity		✓				OK
10	Service – communication (internet)				N/A		
11	Toilet Bays – female				N/A	17	Washbasin required
13	Toilet Bays – accessible		✓		Concrete	17	Washbasin required
14	Entry to the toilet building		✓		Concrete		ok
15	Menstrual Hygiene facilities						Not provided
Comments – <ul style="list-style-type: none">Others:<ul style="list-style-type: none">Ventilation was good & lighting not ok.Some of the interior wall partition will require replacement.Decaying of timber door frames and damageToilet system damageRequire proper drainageMenstrual hygiene kit not provided.							

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

⁵ Count - Used for identifying number of toilet bays and menstrual hygiene facilities

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5. PHOTOGRAPHIC REPORT

B1 – CLASSROOMS

Client	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School name:	LELEAN MEMORIAL SCHOOL
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL	Site Location:	KINGS ROAD DAVUILEVU, NAUSORI.



PHOTOGRAPH No. 1: FRONT VIEW



PHOTOGRAPH No. 2: REAR VIEW



PHOTOGRAPH No. 3: WALKWAY AT TOP LEVEL WITH CONCRETE SPLIT AT ROOF BEAM



PHOTOGRAPH No. 4: WALKWAY AT GROUND LEVEL



PHOTOGRAPH No. 5: EXTERIOR CLASSROOM FLOOR TILES



PHOTOGRAPH No. 6: INTERIOR CLASSROOM

BUILDING INDEX – B2 CLASSROOMS

Client	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School name:	LELEAN MEMORIAL SCHOOL
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL	Site Location:	KINGS ROAD DAVUILEVU, NAUSORI.



PHOTOGRAPH No. 1: FRONT VIEW



PHOTOGRAPH No. 2: REAR VIEW



PHOTOGRAPH No. 3: SIDE VIEW



PHOTOGRAPH No. 4: INTERIOR CLASSROOM



PHOTOGRAPH No. 4: WALKWAY



PHOTOGRAPH No. 6: GENERAL TAP

BUILDING INDEX – BUILDING 3

Client	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School name:	LELEAN MEMORIAL SCHOOL
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL	Site Location:	KINGS ROAD DAVUILEVU, NAUSORI.
			
PHOTOGRAPH No. 1: REAR VIEW		PHOTOGRAPH No. 2: SIDE VIEW	

BUILDING INDEX – BUILDING 4

Client	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School name:	LELEAN MEMORIAL SCHOOL
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL	Site Location:	KINGS ROAD DAVUILEVU, NAUSORI.



PHOTOGRAPH No. 1: FRONT VIEW



PHOTOGRAPH No. 2: WALKWAY AND DRAINAGE



PHOTOGRAPH No. 3: INTERIOR CLASSROOM



PHOTOGRAPH No. 4: INTERIOR CLASSROOM

BUILDING INDEX – B5 – CLASSROOM/STAFF/CANTEEN

Client	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School name:	LELEAN MEMORIAL SCHOOL
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL	Site Location:	KINGS ROAD DAVUILEVU, NAUSORI.



PHOTOGRAPH No. 1: REAR VIEW STAFF ABLUTION AND STUDENTS ABLUTION



PHOTOGRAPH No. 2: FRONT VIEW- ENTRANCE TO STAFF ROOM

BUILDING INDEX – B7 CLASSROOMS

Client	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School name:	LELEAN MEMORIAL SCHOOL
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL	Site Location:	KINGS ROAD DAVUILEVU, NAUSORI.



PHOTOGRAPH No. 1: FRONT VIEW



PHOTOGRAPH No. 2: REAR VIEW



PHOTOGRAPH No. 3: SIDE VIEW



PHOTOGRAPH No. 4: SIDE VIEW



PHOTOGRAPH No. 5: INTERIOR CLASSROOM



PHOTOGRAPH No. 6: INTERIOR CLASSROOM

BUILDING INDEX – ABLUTION

Client	TETRA TECH INTERNATIONAL DEVELOPMENT (PTY) LTD	School name:	LELEAN MEMORIAL SCHOOL
Project:	INFRASTRUCTURE PLAN FOR SUVA – NAUSORI URBAN SCHOOL	Site Location:	KINGS ROAD DAVUILEVU, NAUSORI.



PHOTOGRAPH No. 1: SIDE & REAR VIEW



PHOTOGRAPH No. 2: FRONT VIEW



PHOTOGRAPH No. 3: TOILET BAYS



PHOTOGRAPH No. 4: TOILET SYSTEM



PHOTOGRAPH No. 5: EXPOSED TIMBER ROOF FRAME



PHOTOGRAPH No. 6: DRAINAGE

Appendix B – Excel Scoring Sheet

WEIGHTED CRITERIA		
PART A - CLASSROOM OVERCROWDING (40%)		
1	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
	Criteria Item Score	35
PART B - WASH FACILITIES (20%)		
2	WASH- Student ratio based on the Fiji National Building Code (FNBC) Infrastructure Standards (10%)	
	Poor - WASH-Student ratio for school toilet blocks falls below the ratio in the standard specified by FNBC.	8 to 10
	Criteria Item Score	8
2.1 Quality of facilities and current condition such as functionality and maintenance (10%)		
	Poor - school toilet facilities are not maintained and the physical infrastructure cause major disturbances to end users.	8 to 10
	Criteria Item Score	10
PART C - CONDITION OF INFRASTRUCTURE (20%)		
3	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
	Criteria Item Score	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
	Criteria Item Score	8
PART D - DISABILITY ACCESSIBILITY (10%)		
4	Accessibility features such as the presence of existing ramps, handrails, accessible toilets etc	
	Fair - most facilities are not currently accessible, however there are some accessibility features present such as accessible toilets etc.	6 to 7.9
	Criteria Item Score	6
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
	Criteria Item Score	8
TOTAL CRITERIA SCORE		83.0

Appendix C – Land Available for Expansion



NRW MACALLAN (FIJI) LTD
CONSULTING ENGINEERS
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SCHOOL NAME:
LELEAN MEMORIAL SCHOOL