

# INFRASTRUCTURE ASSESSMENT AUDIT FOR SUVA – NAUSORI URBAN SCHOOL

# **CHRISTIAN MISSION FELLOWSHIP COLLEGE (2585)**

# **SUMMARY REPORT**





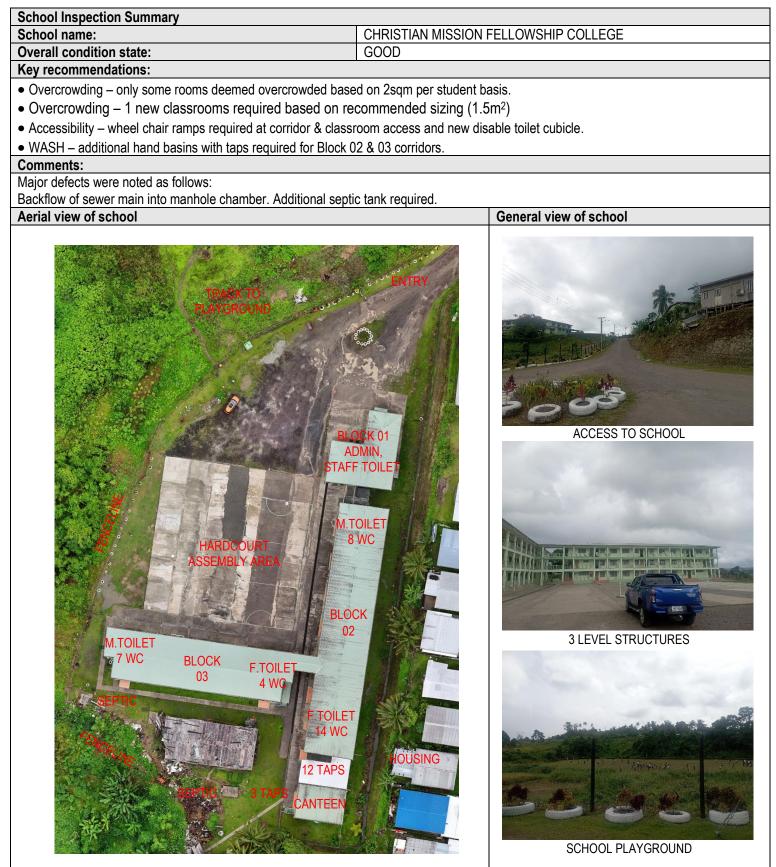


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# 1) INSPECTION SUMMARY





School type:	Primary		Seconda	ary	✓	Year levels	9,10	,11,12,13
School address:	P.O.Box 7330,	VALELE	VU, NASINU.					
School enrolment and staff figures (2024)	No. of Studer (Male)	nts No. (Fem	of Students ale)		of Studer Disability		achers	No. of Teachers (Female)
	265		325		0	8		24
School building arrangement	TOTAL NUMBER OF BUILDINGS: 4 BLOCKS							
	BLOCK 01 – 2	LEVELS	BLOCK 02 -	- 3 LE	VELS, BI	LOCK 03 – 3 L	EVELS	S,
	BLOCK 04 – 1 LEVEL							
Local Government area:	NAWAME RO	AD, TACI	RUA EAST.					
Date of inspection:	06 <sup>™</sup> JUNE, 20	24						
Inspection team:	ALEKSIO MAN	IOA						
	FREDDY TUR	AQA						
	LAITE TELAW	A						
	SURAJ RAGH	UNATH						
Data collection methods	Visual inspecti	on		✓	Ons	site measurem	ent	<ul> <li>✓</li> </ul>
	Interviews with school staff		$\checkmark$	Dro	ne / aerial ima	gery	✓	
	Survey form			✓	Des	sktop research		✓
	Other:							
Assumptions:	NONE							
Limitations:	SURVEY PLA	N / TITLE	CERTIFICAT	ΓE - W	ITH SCH	IOOL BOARD		
	AS BUILT PLA	NS EXIS	TING STRUC	TURE	ES – WIT	H SCHOOL B	OARD	
	SCHOOL BUDGET PLAN – WITH SCHOOL BOARD							
	ABOVE DOCL	IMENTS	NOT KEPT A	T SCH	HOOL OF	FICE.		

# 2) ASSESSMENT OF OVERCROWDING

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

The results of the assessment are based on the recommended sizing (1.5m<sup>2</sup>), according to 2024 data, an additional 1 classrooms are required for CMF College.

Year	Stream	Number of students	Current number of classrooms	Number of extra classrooms required based on FNBC on 2024 data
	901	36		
09	902	37	Λ	
09	903	37	4	-
	904	36		
	1001	30		
10	1002	33	Λ	
10	1003	32	4	-
	1004	30		
	1101	43		
11	1102	41	3 1	1
	1103	45		
	1201	38		
12	1202	39	3	-
	1203	33		
13	1301	40	2	
13	1302	40	Ζ	-
тс	DTAL	590	16	-



# 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
BLOCK 01	8,6	19,9	6.0	2	Block 01 constructed out of concrete beams and columns with slab on ground and suspended floor slab for first floor. Block wall for external and internal partition walls. Doors and windows present on all sides of the structure. Hip & Valley roof with metal cladding and timber framed roof members.	Ground Floor Admin Office, Principal & VP Office, Staff Male & Female WC, Storage First Floor Computer Room, Office Technology Room
BLOCK 02	62	8,10	9	3	Block 02 constructed out of concrete beams and columns with slab on ground and suspended floor slab for first and second floors. Block wall for external and internal partition walls. Doors and windows present on lengthwise of the structure. Gable roof with metal cladding and timber framed roof members.	Ground Floor Boys & Girls toilets, 4no. Classrooms, Agriculture & Metal Rooms First Floor Boys & Girls toilets, 6no. Classrooms. Second Floor Staff Rooms, 6no. Classrooms
BLOCK 03	39	8,10	9	3	Block 03 constructed out of concrete beams and columns with slab on ground and suspended floor slab for first and second floors. Block wall for external and internal partition walls. Doors and windows present on lengthwise of the structure. Gable roof with metal cladding and timber framed roof members.	Ground Floor Hospitality Workshop, Woodwork Workshop First Floor Boys & Girls toilets, Library, Technical Drawing Room. Second Floor Chaplin Office, Food & Nutrition Theory & Kitchen, Science Lab, Staff Room
BLOCK 04	6	6	3	1	Block 04 constructed out of concrete slab on ground and block walls for both external & internal partitions. Wide serve windows and two access doors. Gable roof with metal cladding and timber framed roof members.	Ground Floor Canteen

NOTE: Girls and Boys Toilets mentioned refers to a set of cubicles. Refer Breakdown under Section 4.



## 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,	Good
Disability	Accessibility	-
Ventilation and lighting	Ventilations, Natural Lighting, Artificial Lighting.	Good

# **Observations on Structural Elements**

- Wall and Ceiling Block walls for all blocks do not show signs of crack. All perimeter block wall external and internal faces are plaster and paint finish. Classroom partition walls are block wall as well. All offices, classrooms and corridors for utmost top level have flat ceilings fixed to underside of roof framing. Ceiling integrity in good condition and paint finish.
- Floor and Foundation All blocks show no signs of ground settlement. All offices, classrooms and toilets for both Blocks 01 and 02 have tiled floor. Corridor floor and steps also have tiled finish.
- Roof No major issue reported by school management with roof cladding for all blocks. No access to view roof framing and tie down connections.
- Window & Door Windows for all blocks have complete set of clear glass lourve blades on aluminium frames. Some windows have security mesh cover. Every classroom and workshop have two entry/exit points with timber framed swing single door access from corridor. Toilet cubicles have timber framed swing single access doors. All doors in good condition.
- > Earthquake Rigid structure with beams and columns. Staircase both ends of each Block.
- > Cyclone Roof framing tie down connections concealed.

# Safety and compliance with standards

- Fire Safety Fire extinguishers and fire hose reel present at all blocks corridor. The school management have provided Emergency exit plan and designated assembly. First aid kit available with admin office. Announcements and alerts conveyed through PA sound system that covers whole school.
- Electrical Safety School electricity connected to EFL mains along Khalsa road. Safe and secured switchboard with circuit breakers located away from student reach. Accessed only by School admin. All lighting and power supply wiring concealed in conduits and inside ceiling space.
- Accessibility Classrooms and toilet cubicles are not user friendly for disable students. There is no disable student enrolled in school.

# Lighting and Ventilation

- Ventilation doors and windows present lengthwise for all blocks. Ceiling fans to all rooms. Air con for offices and computer lab. Fairly new.
- > Natural Lighting adequate number of windows for all classrooms and offices.
- > Artificial Lighting adequate number and correct size ceiling light fittings. All functioning properly. Fairly new.



# 4) WATER SANITATION HYGIENE (WASH) FACILITIES

# **Condition of Toilets and Washrooms**

Toilet facilities available in all blocks except for canteen. The facilities have some minor defects such as:

- Missing hand basin for Boys toilet in Block 02 result of vandalism.
- Missing shower heads for both Girls and Boys shower cubicle result of vandalism.
- Toilet seats missing for some Boys toilet cubicles.

All flush systems for both Girls and Boys toilet and teacher's toilet functioning properly and kept safe and clean by management. Cubicle floor and walls provided with tiles and regularly cleaned.

The school's existing WASH facility ratio to students based on requirements under FNBC and current student roll does comply to standards. Staff toilet facilities at Block 01 are shared with visitors. Block 02 students can access toilet amenities on first floors of the same. Block 03 students can access toilet amenities on first floor of the same. Girls and Boys toilets are separate and located at opposite ends of each floor. Corridors do not have general use taps. All taps are located at wash point at Block 04 canteen. Students are encouraged to have water bottles since all taps are located on ground floor.

Table below indicates the existing number of water closet cubicles and hand wash points;

TOILE	TOILET CUBICLE(S)		No. of Cubicles		Toilet Ratio (1 cubicle: students)		f Student to Toilet Ratio (FNBC).
Building Index	Used by Years	Female (WC)	Male (WC)	Female Students	Male Students	Female Requirement (1:20) Extra WC?	Male Requirement (1:30) Extra WC?
BLOCK 01	-	2	2	-	-	-	-
BLOCK 02	YEARS 09 TO 13, (400 pupils)	14	8	1:20	1:25	0	0
BLOCK 03	WORKSHOP (190 pupils)	4	7	1:20	1:25	0	0

HAND BASINS IN THE TOILET		No. of Hand Basins		Handbasin Ratio (1 HB: students)		Compliance of Student to Hand Basin Ratio (FNBC).	
Building Index	Used by Years	Female	Male	Female Students	Male Students	Female Requirement (1:60) Extra Handbasins?	Male Requirement (1:60) Extra Handbasins?
BLOCK 01	STAFF & VISITORS	1	1	-	-	-	-
BLOCK 02	YEARS 09 TO 13, (400 pupils)	14	14	1:15	1:15	0	0
BLOCK 03	WORKSHOP (190 pupils)	8	8	1:11	1:11	0	0



GENERAL OUTDOOR TAPS		No. of General Outdoor Taps	Outdoor Taps Ratio (1 tap: students)	Compliance of Student to Outdoor Taps Ratio Requirement (1:60) (FNBC) Does it require additional hand basins?
Building Index	Used by Years			
BLOCK 01	-	-	-	-
BLOCK 02	-	-	-	-
BLOCK 03	-	-	-	-
BLOCK 04	YEARS 09 TO 13, (590 pupils)	15	1:40	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

- Layout: Every classroom and workshop have two exit points. Staff rooms have wide double doors. Large floor space classrooms with large openings for windows and good ceiling height. Each classroom has ceiling mounted 4no. 4 feet light frames. No missing tube lights. Each classroom has two ceiling mounted fans. Toilets located on ground floor and first floor at both ends for Block 02 classrooms. Toilets located at first floor at both ends for Block 03 workshop.
- Central Location: The school is centrally located, allowing easy access to main streets and relief services.

# Structural

- Material Quality: The school buildings were recently constructed and commissioned in late 2010s with reinforced concrete and block walls and metal cladding over timber roof framing. Well maintained by School management.
- Structural Integrity: Buildings have demonstrated the capability to withstand and recover from natural disasters like earthquakes, category 3 cyclones, and floods. Roof framing members and tie down connections concealed.

## Non-Structural

- Disaster Preparedness: Implementation of disaster evacuation plans, emergency exit routes, and safety protocols.
- Fire Safety: School is equipped with adequate fire fighting equipments to mitigate fire-related risks.



# 6) ACCESSIBILITY ASSESSMENT

# I. 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.

# II. 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.

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

- Classrooms do not have wide doorways and no ramps to ensure unobstructed access to classrooms. Additionally, acoustics are not considered for students with hearing impairments.
- > WASH Facilities do not have accessible restrooms. There is clear pathway to the wash facilities with wide corridor but no grab railings. There is step down into both Girls and Boys toilet.
- > 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 Christian Mission Fellowship College at Nawame Road, Nasinu:

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 Overall safe and clean classrooms and compound. No major defects. Safety compliance Handrails to all corridors and steps in good condition. Safety signs missing in corridor and steps. Disability No consideration when constructed in Year 2016-2018. Ventilation and lighting Adequate number and size of windows and lighting of classrooms. Ceiling fan provided for all classrooms.	Structural Integrity Columns, slabs, beams, rafters, purlins sizes to follow FNBC 1990. General upkeep Routine check 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 Roof framing tie down connections to be checked & assessed. General upkeep Replace damaged hand basin and shower heads and toilet seats for Girls and Boys toilets. Safety compliance Safety signages to be provided along corridors. Disability Not fully compliant with FDPF Disability audit tool Ventilation and lighting Room 1101 missing window blades to be provided. Room 1002 loose light frame to be fixed.
Assessment of Overcrowding	Some classrooms are overcrowded. Teacher to student ratio 1:36 on average.	FNBC 1990 requires classroom occupancy to have 2 sqm per person. Based on that, the required roll per classroom was calculated.	<ul> <li>1/16 classrooms were accommodating more roll than required.</li> <li>Given the recommended sizing (1.5m<sup>2</sup>), about 1 extra classrooms are required to address overcrowding in school.</li> </ul>
Water Sanitation Hygiene (WASH) facilities	Toilet to Student Ratio Girls (16 WC) – 1:20 Boys (14 WC) – 1:20 General use Taps to Student Ratio Students (15 taps) – 1:32 Menstrual Hygiene kit available at admin office. Bins provided in Girls toilet. Wash tub present. No cloth line.	Toilet to Student Ratio Girls – 1:30 Boys – 1:20 General use Taps to Student Ratio Students – 60:1 Current student ratio used is respective of 2024 enrolment numbers. Menstrual Hygiene kit to be present in every female washroom block.	No wash tub present for Girls toilet. Clothes drying zone required.
Disaster Resilience Assessment	School building structures are resilient to natural disasters and have safety systems in place. Designated evacuation centre during disaster. Concrete rigid structure with hurricane mesh to some windows.	Fiji Building Code 1990. Requirement is that roof cladding be free of rust and fastened securely with type 17 cyclonic screws with neoprene washers.	No access to view roof cladding condition. No access to view roof framing tie down connections. No Emergency route signs present on walls.
Accessibility Assessment	Classroom access door 0.9m clear wide. No grab rails along corridor. No ramp for corridor access and toilets. No accessible toilet. Handrails present for all corridors.	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. Steps clearance required of 1.2m and tread width of	Thorough upgrading of school amenities required to cater for disable students. No disable student enrolled.



	minimum 310mm. (National Building	
	Code Table D2.1)	

# 8) <u>RECOMMENDATIONS</u>

In order to comply with the FNBC, the school will require the following:

- Classrooms: Fairly newly registered school built to serve central population of Nasinu. Based on the FNBC under section maximum Occupancy Table 3.1 states for School general classroom area to be based on 2.0 sqm per pupil; with this ratio some of classrooms have been deemed overcrowded. School committee have formulated an enrolment plan whereby there is limit to overcrowding. On average student to ratio per class is 36:1. Several schools situated along Khalsa corridor.
- WASH Facilities: CMF College have well-proportioned student to Wash amenities for both boys and girls. School has only achieved this successfully by having a firm control on student enrolment and avoiding overcrowding. Hand wash point were noticed to be away for most of the upper floor classrooms. It is highly recommended that School be provided with total of 8no. hand basins with taps for ease of access for Block 02 & 03 first and second floor classrooms corridor. (2no. HB each corridor)
- NFA Compliance: Fire hose reel provided for Admin block and every corridor for each floor. School has provided fire extinguishers for every workshop and computer lab. Fire extinguishers provided in every corridor for Block 02. Two entry/exit doors to every classroom and workshops.
- Education Grant: There is no student admittance fees collected by the school. Routine maintenance of school amenities depended on Free Education Grant given by the Ministry. Due to irregular intervals at which Grant is received, school operation is affected. Grant when received is used for infrastructure maintenance such as painting, roof repair, fence repair, windows and door repair, student desks and chair repair or replacement, maintenance staff pay, utility bills and office stationaries such as paper rims and printer inks. Grant is also used for Girls hygiene kit and toilet supply. All capital projects are funded by Church CMF members and CMF International such as recently constructed block 03 and any Sports activities.
- 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 the school, the following conclusions were drawn:

- > MEHA Compliance: No additional work required.
- > WASH Facilities: No additional work required.
- > Land Availability: Ample land for additional classroom blocks in the future.
- > NFA Compliance: No additional work required.
- > WAF Compliance: Drinking water supply connected to WAF main.
- > **FNBC Compliance:** Roof framing tie down connections to be assessed.
- > NDMO Compliance: Designated assembly area and safety signs clearly visible.
- > EFL Compliance: Power supply connected to EFL mains along Khalsa Road.
- > DISABILITY Accessibility: Classrooms and toilet blocks are not user friendly for disable students.

# 10) APPENDIX

Annex A - Site Inspection Report

Annex B – Excel Scoring Sheet

## Annex C – Land Available for Expansion

# Appendix A - Site Inspection Report



# **INFRASTRUCTURE ASSESSMENT AUDIT FOR**

# SUVA – NAUSORI URBAN SCHOOL

# CHRISTIAN MISSION FELLOWSHIP COLLEGE (2585) SITE INSPECTION REPORT





PROJECT NAME:INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLSPROJECT NUMBER:22403058SCHOOL NAME:CHRISTIAN MISSION FELLOWSHIP COLLEGE



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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) SCHOOL BACKGROUND

CMF College once shared the same facilities with CMF Primary just around the corner. Today the college has new Admin block and two three level buildings which was made possible through the faithful giving and good will of the members of the CMFI church. School caters for years 09 to year 13 students and has commenced into vocational studies to encourage students to have lifelong skills and to provide different path away from drug fueled crimes which have centered around Nasinu in recent years.

The school serves greater part of Nasinu with most of the students coming from informal settlements and housing units. School consists of students from CMF church members and over 70% of total students are from other various denominations.

School gets Annual Free Education Grant from the Education Ministry. Grant is utilized for school building maintenance such as painting, roof repair, fence repair, windows and doors repair, student desks and chairs repair or replacement, maintenance staff pay, utility bills and office stationaries such as paper for tests and ink for printers. No school fees collected by management.



# Table 1: SCHOOL DETAILS

NAME OF SCHOOL	Christian Mission Fellowship College
SCHOOL REGISTRATION NUMBER	2585
SCHOOL LOCATION	Nawame Road, Tacirua East.
SCHOOL TYPE	Secondary
FEEDER SCHOOL	-
DATE OF INSPECTION	1 <sup>st</sup> August 2024
MILESTONE	(53 / 86 SCHOOLS)
INSPECTED BY (TEAM 4)	Freddy Turaga
	Laite Telawa
	Aleksio Manoa
	Suraj Raghunath

# **Table 2: SCHOOL ENROLMENT FIGURES**

Year of	Numl	ber of Studer	nts	Students	Nun	ber of Teach	ners	
Enrolment	Male	Female	Total	with Disability	Male	Female	Total	Comments
2024	265	325	590	0	8	24	32	• 16no. Class rooms
2023			513				29	• 2no. Vocational Workshops
2022			425				28	Student to stream average ratio
2021			396				28	is 36 :1 for 2024 school
2020			371				26	calendar.
2019			400				28	WASH ratio     Boys WC 20:1     Girls WC 20:1
								<ul><li>Taps 32:1 (General Use)</li><li>Evacuation Centre designated by NDMO.</li></ul>



# Table 3: 2024 CLASSROOM ENROLLMENT DETAILS

BLOCK #	GRADE	CLASS	TOTAL	NUMBER OF	DIMENSI	ONS (m)	ACCESS V	VAY COUNT	OVER
/ FLOOR GF, FF		NUMBER	STUDENT ROLL	TEACHERS	LENGTH	WIDTH	NO. OF DOORS	NO. OF WINDOWS	CROWDING
02 / GF	Year 09	901	36	2	8	8	2	14	⊠YES □NO
02 / GF		902	37	2	8	8	2	14	⊠YES □NO
02 / GF		903	37	2	8	8	2	14	⊠YES □NO
02 / GF		904	36	2	8	8	2	14	⊠YES □NO
02 / FF	Year 10	1001	30	2	8	8	2	14	$\Box$ YES $\boxtimes$ NO
02 / FF		1002	33	2	8	8	2	14	□YES ⊠NO
02 / FF		1003	32	2	8	8	2	14	□YES ⊠NO
02 / FF		1004	30	2	8	8	2	14	□YES ⊠NO
02 / FF	Year 11	1101	43	2	8	8	2	14	⊠YES □NO
02 / FF		1102	41	2	8	8	2	14	⊠YES □NO
02 / SF		1103	45	2	8	8	2	14	⊠YES □NO
02 / SF	Year 12	1201	38	2	8	8	2	14	⊠YES □NO
02 / SF		1202	39	2	8	8	2	14	⊠YES □NO
02 / SF		1203	33	2	8	8	2	14	□YES ⊠NO
02 / SF	Year 13	1301	40	2	8	8	2	14	⊠YES □NO
02 / SF		1302	40	2	8	8	2	14	⊠YES □NO
		Under N	NBC requirem	ent, type of use	general cla	issroom 2.0	sqm per pu	pil.	
01/55	Computer	l ab	35	1	16	0	1	16	
01 / FF	Computer					9		16	
01 / FF	Office Tech		35	1	9	9	1	10	
02 / GF	Agriculture	•	35	1	8	8	2	14	
02 / GF		inery Theory	35	1	8	8	2	14	
03 / GF	Hospitality		25	2	19.5	8	2	32	
03 / GF		k Workshop	25	2	19.5	8	2	32	□YES ⊠NO
03 / FF	Technical [	Jwg Room	25	1	14.5	8	2	26	□YES ⊠NO
03 / FF	Library		50	1	14.5	8	2	26	□YES ⊠NO
03 / SF	Food & Nutrition Room		25	2	14.5	8	2	26	□YES ⊠NO
03 / SF	Science La	b	25	1	14.5	8	2	26	□YES ⊠NO
	linder ND	C roquiromon	t Computer F	loom 06 cam fo	r 20 pupile	Home Fact	omios 129 -	am for 20 pm	aile
Under NBC requirement, Computer Room 96 sqm for 20 pupils, Home Economics 128 sqm for 20 pupils,									
Technical Drawing Room 128 sqm for 20 pupils, Fabrication Workshops 67 sqm for 12 pupils.									



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



PROJECT NAME: PROJECT NUMBER: SCHOOL NAME: INFRASTRUCTURE PLAN FOR SUVA NAUSORI URBAN SCHOOLS 22403058 CHRISTIAN MISSION FELLOWSHIP COLLEGE Page 7 of 23 Prepared by SR Revision No. A



# 3) VISUAL INSPECTION RESULTS – BLOCK 01

Building	Building Index BLOCK 01					Yea	ar built: 2018	(Age: over 5 years old)	
Туре:	Ground Floor: Admin Office, Principal & VP Office, Staff Male & Female WC, Storage First Floor : Computer Room, Office Technology Room							No. of Levels: 2	
Dimens	ions	Length (n	n): 8, 6m	Width (m)	): 18, 9m		Height	(m): 6m (GL to eaves)	
				Ex	kisting State	of Building			
REF. No.	Building C	omponent	Good <sup>1</sup>	Fair <sup>2</sup>	Poor <sup>3</sup>	Structure Type <sup>4</sup>		Comments	
1	Roof Lining		×			Metal cladding	Fairly new s	tructure.	
2	Roof Struct	ure	×			Timber frame	Connections	concealed.	
3	Walls		×			Concrete	No signs of	crack. Paint finish.	
4	Columns		×			Concrete	No signs of crack. Paint finish.		
5	Beams		×			Concrete	No signs of	crack. Paint finish.	
6	Floor		×			Concrete	No signs of	crack. Tiled finish.	
7	Handrails					-	-		
8	Walkway(s)		×			Concrete	Corridor link	to next block.	
9	Services –	water supply					Tapped off \	NAF main road	
10	Available ta (excl. taps	ps for general use in toilets)					No taps Student – tap ratio = xx : 1		
11	Services –	electricity					Connected off the gridline main road.		
12	Services –	communication					PA system covers whole block. Several safety signs on display.		
13	Drainage						Stormwater diverted into nearby drain.		

#### Comments

• Block 01 constructed out of concrete beams and columns with slab on ground and suspended floor slab for first floor. Block wall for external and internal partition walls. Doors and windows present on all sides of the structure. Hip & Valley roof with metal cladding and timber framed roof members. Natural light and ventilation satisfactory. Structure well maintained by school committee. Access is not wheelchair friendly.

• Adequate tube lights and air cons present for both floors.

• Block 01 Staff Male wash room – 2no. water closet, 1no. tap. Block 01 Staff Female wash room – 2no. water closet, 1no. tap, sanitary bin.

#### Recommendations

None.

 $<sup>^1\,\</sup>mbox{Good}$  - No additional works / intervention required

<sup>&</sup>lt;sup>2</sup> Fair - Remedial works required – min CAT 3 standard

 $<sup>^{\</sup>scriptscriptstyle 3}$  Poor - Demolition and replace with new - min CAT 4 standard

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



# 4) <u>PHOTOGRAPHIC REPORT – BLOCK 01</u>



05. COMPUTER LAB CEILING LIGHTS & AIR CON.

06. SCHOOL PLAYGROUND, COMPOUND FENCED.

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# 5) VISUAL INSPECTION RESULTS – BLOCK 02

Building Index BLOCK 02					Ye	Year built: 2018 (Age: over 5 years old)				
Туре:	First Floor	or : Boys & Girls to : Boys & Girls t or : Staff Rooms, 6	toilets, 6no	. Classroor		ure & Metal Rooms		No. of Levels: 3		
Dimens	ions	Length (n	n): 62m	Width (m)	): 8, 10m		Height (	m): 9m (GL to eaves)		
				Ex	kisting State	of Building				
REF. No.	Building Co	mponent	Good⁵	Fair <sup>6</sup>	Poor <sup>7</sup>	Structure Type 8		Comments		
1	Roof Lining		×			Metal cladding	Fairly new s	tructure.		
2	Roof Structu	re	×			Timber frame	Connections	concealed.		
3	Walls		×			Concrete	No signs of	crack. Paint finish.		
4	Columns		×			Concrete	No signs of	crack. Paint finish.		
5	Beams		×			Concrete	No signs of	crack. Paint finish.		
6	Floor		×			Concrete	No signs of	crack. Tiled finish.		
7	Handrails		×			Metal tubing	Safe height.	No damage. Paint finish.		
8	Walkway(s)		×			Concrete	Corridor link	to next block.		
9	Services – w	ater supply					Tapped off V	NAF main road		
10	Available tap (excl. taps in	os for general use n toilets)					12 taps	12 taps Student – tap ratio = 50 : 1		
11	Services – e	lectricity					Connected of	Connected off the gridline main road.		
12	Services – co	ommunication						PA system covers whole block. Several safety signs on display.		
13	Drainage						Stormwater diverted into nearby drain.			

#### Comments

- Block 02 constructed out of concrete beams and columns with slab on ground and suspended floor slab for first and second floors. Block wall for external and internal partition walls. Doors and windows present on lengthwise of the structure. Gable roof with metal cladding and timber framed roof members. Staircase present both ends with hand rails to all floor corridors. Classroom doors 900mm. Exit corridor 1.8m clear. Natural light and ventilation satisfactory. Classrooms well maintained by school committee. Access is not wheelchair friendly.
- Adequate tube lights in each room. Ceiling fans to all rooms.
- Block 02 ground floor consists Year 901, Year 902, Year 903, Year 904. Total pupils 146. General use 12no. taps on side wall ground floor.
- Block 02 first floor consists Year 1001, Year 1002, Year 1003, Year 1004, Year 1101, Year 1102. Total pupils 209.
- Block 02 second floor consists Year 1103, Year 1201, Year 1202, Year 1203, Year 1301, Year 1302. Total pupils 235.
- Block 02 ground floor Boys washroom 4no. water closets, 1no. shower, 8no. hand basin with taps, 2no. urinal.
- Block 02 ground floor Girls washroom 7no. water closet, 1no. shower, 6no. hand basin with taps. 2no.basins damaged. Sanitary bin provided.
- Block 02 first floor Boys washroom 4no. water closets, 1no. shower, 6no. hand basin with taps, 2no. urinal. 2no. basins damaged.
- Block 02 first floor Girls washroom 7no. water closet, 1no. shower, 8no. hand basin with taps. Sanitary bin provided.

Recommendations - install new 4no. hand basins with taps for first floor and second floor corridor for ease of access.

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

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

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

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



# 6) <u>PHOTOGRAPHIC REPORT – BLOCK 02</u>



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05. RIGID CONC FRAME WITH BEAMS & COLUMNS.

06. FIRST FL ROOM TYPICAL 4 LIGHTS, 2 CEILING FANS.

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# 7) VISUAL INSPECTION RESULTS – BLOCK 03

Buildin	g Index	BLOCK 03				Ye	ar built: 2021	(Age: below 5 years old)		
Туре:	First Floo	loor:Hospitality Wo r :Boys & Girls t loor:Chaplin Office	aff Room	No. of Levels: 3						
Dimens	sions	Length (n	n): 39m	Width (m	): 8, 10m		Height (	m): 9m (GL to eaves)		
				E>	kisting State	of Building				
REF. No.	Building	Component	Good <sup>9</sup>	Fair <sup>10</sup>	Poor <sup>11</sup>	Structure Type <sup>12</sup>		Comments		
1	Roof Linin	g	×			Metal cladding	Fairly new st	tructure.		
2	Roof Struc	ture	×			Timber frame	Connections	concealed.		
3	Walls		×			Concrete	No signs of o	crack. Paint finish.		
4	Columns		×			Concrete	No signs of o	No signs of crack. Paint finish.		
5	Beams		x			Concrete	No signs of o	No signs of crack. Paint finish.		
6	Floor		×			Concrete	No signs of o	crack. Tiled finish.		
7	Handrails		×			Metal tubing	Safe height.	No damage. Paint finish.		
8	Walkway(	6)	×			Concrete	Corridor link	to next block.		
9	Services -	water supply					Tapped off V	VAF main road		
10		aps for general use in toilets)					0 taps	Student – tap ratio = xx : 1		
11	Services -	- electricity					Connected off the gridline main road.			
12	Services -	- communication					PA system covers whole block. Several safety signs on display.			
13	Drainage						Stormwater	diverted into nearby drain.		

### Comments

- Block 03 constructed out of concrete beams and columns with slab on ground and suspended floor slab for first and second floors. Block wall for external and internal partition walls. Doors and windows present on lengthwise of the structure. Gable roof with metal cladding and timber framed roof members. Staircase present both ends with hand rails to all floor corridors. Classroom doors 900mm. Exit corridor 1.8m clear. Natural light and ventilation satisfactory. Classrooms well maintained by school committee. Access is not wheelchair friendly.
- Adequate tube lights in each room. Ceiling fans to all rooms.
- Block 03 ground floor consists Hospitality Workshop capacity 25 pupils, Woodwork Workshop capacity 25 pupils.
- Block 03 first floor consists Library capacity 50 pupils, Technical drawing room capacity 25 pupils.
- Block 03 second floor consists Food & Nutrition Kitchen capacity 25 pupils, Science Lab capacity 25 pupils.
- Block 03 first floor Boys washroom 7no. water closets, 1no. shower, 8no. hand basin with taps.
- Block 03 first floor Girls washroom 4no. water closet, 1no. shower, 8no. hand basin with taps. Sanitary bin provided.

#### Recommendations

• Install new 4no. hand basins with taps for first floor and second floor corridors for ease of access.

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

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

 $<sup>^{\</sup>rm 11}\,{\rm Poor}$  - Demolition and replace with new - min CAT 4 standard

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



# 8) PHOTOGRAPHIC REPORT – BLOCK 03



05. WOODWORK - INTERNAL PARTITION FULL HEIGHT BLOCK WALL.

06. STAIRWELL 320 BY 180 RISER, 900 WIDE CLEAR.

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# 9) VISUAL INSPECTION RESULTS – BLOCK 04

Building	g Index	BLOCK 04				Y	Year built: 2018 (Age: over 5 years old)			
Туре:	Ground Flo	or: Canteen		No. of Levels: 1						
Dimens	ions	Length (n	n): <b>6m</b>	Width (m	): 6m		Height (	m): 3.0m		
				E>	isting State	of Building				
REF. No.	Building Co	omponent	Good <sup>13</sup>	Fair <sup>14</sup>	Poor <sup>15</sup>	Structure Type <sup>16</sup>	6	Comments		
1	Roof Lining		×			Metal cladding	Roof to rece	ive new paint.		
2	Roof Structu	ire	×			Timber frame	Connections	concealed.		
3	Walls		×			Concrete	No signs of c	crack. Paint finish.		
4	Columns					-				
5	Beams		×			Concrete	No signs of c	crack. Paint finish.		
6	Floor		×			Concrete	No signs of c	crack. Tiled finish.		
7	Handrails					-				
8	Walkway(s)						Sheltered wa	ilkway.		
9	Services – v	vater supply					Tapped off V	VAF main road		
10	Available ta (excl. taps i	ps for general use n toilets)					8 taps	Student – tap ratio = xx : 1		
11	Services – e	electricity					Connected o	ff the gridline main road.		
12	Services – o	communication						PA system covers whole block. Several safety signs on display.		
13	Drainage						Stormwater of	Stormwater diverted into nearby drain.		

## Comments

• Block 04 constructed out of concrete slab on ground and block walls for both external & internal partitions. Wide serve windows and two access doors. Gable roof with metal cladding and timber framed roof members. Sheltered walkway connected to Canteen. Natural light and ventilation satisfactory.

#### Recommendations

None.

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

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

 $<sup>^{\</sup>rm 15}\,{\rm Poor}$  - Demolition and replace with new - min CAT 4 standard

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



# 10) PHOTOGRAPHIC REPORT - BLOCK 04



## 11) BUILDING AND TOILET BLOCKS ACCESS INFORMATION FOR DISABILITY AUDITS

Building Index	Туре	Length (m):	Width (m) :	Height (m) :
Block 01	Ground Floor: Admin Office, Principal & VP Office, Staff Male & Female WC, Storage First Floor : Computer Room, Office Technology Room	18	8	6
Block 02	Ground Floor : Boys & Girls toilets, 4no. Classrooms, Agriculture & Metal Rooms First Floor : Boys & Girls toilets, 6no. Classrooms Second Floor : Staff Rooms, 6no. Classrooms	62	8, 10	9
Block 03	Ground Floor : Hospitality Workshop, Woodwork Workshop First Floor : Boys & Girls toilets, Library, Technical Drawing Room Second Floor : Chaplin Office, Food & Nutrition Theory & Kitchen, Science Lab	39	8, 10	9
Block 04	Ground Floor: Canteen	6	6	3

#### Existing State of Building

REF. No.	Building Component		Fair <sup>18</sup>	Poor <sup>19</sup>	Structure Type	Dimensions	Comments
1	Ramps						Conc walkway to all blocks available. All classrooms floor raised from ground. No ramps. Only steps.
2	Walkway clearance space					1.4 - 2.0m wide	Corridor links to all blocks.
3	Handrails				Metal / timber	1.0m high	Railing to all ground & first & second classroom corridors & staircase.
	Doors and Door Size (typical)				Timber Joinery	900mm wide	Steps to all classroom corridors.
4	Stairway				Concrete	1.0m wide	2no. three storey blocks.

### Comments

- All classroom blocks are raised above ground. No ramps at point of entry. Steps leading up to corridor.
- Railing to all ground & first & second floor classroom corridors & staircase. Each step is 1.0m wide with approx. 180mm high riser.
- All rooms used as classrooms & workshops have two entry / exit points. Clear opening of entry point 900mm to every room.
- Both girls and boys toilet clear opening of each cubicle door is 900mm. Taps for hand wash inside the toilet block is 1.0m high from floor.
- Toilet facilities are not user friendly for disable students. No assist railing & cubicles not wide enough for a wheel chair access.

 $<sup>^{\</sup>rm 17}\,{\rm Good}$  - No additional works / intervention required

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

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

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

# 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	3
	Criteria Item Score		3.0
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	0
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	0
	Criteria Item Score		0.0
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	0
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	0
	Criteria Item Score		0.0
	PART D - DISABILITY ACCESSIBILITY (10%)		
4	Accessibility features such as the presence of existing ramps, handrails, accessible toilets etc		
	Poor - School buildings and facilities do not have accessibility features.	8 to 10	10
	Criteria Item Score		10.0
	PART E - DISASTER RESILIENCE (10%)		
5	Presence and quality of measures for disaster resilience of buildings including structural measures, cyclone shutters and fire safety systems		
	Good - most or all school buildings structures are resilient to natural disasters and have partial safety systems in place. More systems or structural intervention would need to be implemented	0 to 5.9	0
	Criteria Item Score		0.0
	TOTAL CRITERIA SCORE		13.0

# Appendix C – Land Available for Expansion





SCHOOL NAME:



SCHOOL PROPOSE TO FUND FOR NEW 4no. LEVEL REINFORCED CONCRETE BUILDING AT MARKED FUTURE WORKS. NEW STRUCTURE WILL HAVE VOCATIONAL WORK SHOPS AND AMENITIES ACCESSIBLE TO DISABLE STUDENTS.

# CHRISTIAN MISSION FELLOWSHIP COLLEGE